

**Insulating Materials, Inc.
Wash Solvent Discharge Investigation**

Prepared for:

Insulating Materials, Inc.
Schenectady, New York

February 1994

QUALITY



INTEGRITY



CREATIVITY



RESPONSIVENESS

RUST ENVIRONMENT &
INFRASTRUCTURE



TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1
2.0 HISTORICAL INFORMATION	2
3.0 IMI WASH SOLVENT HISTORY & ANALYSIS	4
4.0 TANK CAR UNLOADING AREA BORING	5
5.0 GT-9 AND GT-13 AUGUST 1993 ANALYTICAL RESULTS	6
6.0 GROUNDWATER FLOW DIRECTIONS AND RATES	7
7.0 CONCLUSIONS	9

LIST OF FIGURES

Figure

1	Groundwater Contour Map	8
---	-------------------------------	---

LIST OF APPENDICES

Appendix

A	GE, Table 2.3, February 1981 Report, Recent Chemical Spills
B	Wash Solvent Analytical Data
C	Tank Car Area Boring Log
D	Soil Boring Analytical Data
E	GT-9 and GT-13 Groundwater Analytical Data

1.0 INTRODUCTION

On June 6, 1992, Insulating Materials, Inc., (IMI) reported a spill of approximately 50 gallons of wash solvent solution from a railroad tank car located in the tank care unloading area. This spill was reported to the NYSDEC Spill Hotline on June 6, 1992, Spill No. 9202750. IMI retained an emergency response contractor for cleanup on the same day.

In September 1992, Groundwater Technology, Inc., (GTI), collected a groundwater sample from monitoring well GT-9, which is located approximately 30 feet from the location of the IMI wash solvent spill and in close proximity to several large GE xylene spills. The GT-9 sample was collected as part of a hazardous waste site investigation, performed by GTI for General Electric, Co., (GE) the former owner of the site. Xylene was reported as detected in the GT-9 groundwater sample at a concentration of 6,300 ug/L. The GTI report stated that the xylene detected in the GT-9 sample was potentially related to the IMI wash solvent spill in June 1992.

This report evaluates the potential impact, if any, that the IMI wash solvent spill may have had on groundwater quality. Tasks performed as part of this investigation included the following:

- a review of available information from the site with respect to a former RCRA hazardous waste storage tank, groundwater quality, groundwater flow direction and groundwater flow rates;
- collection and analysis of subsurface soil samples in the area of the IMI wash solvent spill;
- collection of groundwater samples from monitoring wells GT-9 and TG-13; and,
- evaluation of groundwater flow direction based on August 31, 1993 groundwater levels.

2.0 HISTORICAL INFORMATION

In March 1987, GE recorded the overfilling of an underground RCRA hazardous waste solvent tank. Reportedly an estimated fifty gallons of solvent were spilled on the ground surface. The RCRA tank was located in the south western area of the site, approximately seventy feet south of building RV-37. Chemical compounds present in the spill material reportedly included cyclohexane, xylene, cresylic acid, phenols, trimethylbenzene and naphtha.

In response to this spill, two groundwater monitoring wells (GT-1 and GT-2) were installed in April 1987. Samples collected in April 1987 from monitoring well GT-1 exhibited xylene (total xylenes, 1,130 ug/L), toluene (350 ug/L) and ethylbenzene (160 ug/L) concentrations that exceeded the current NYSDEC groundwater standard of 5 ug/L for each compound. This site was listed as a hazardous waste disposal site and GE signed a consent order to begin the investigation.

In November 1988, Clough Harbor Associates supervised the excavation of the RCRA hazardous waste tank. HNU photoionization readings taken during the excavation of the tank were as high as 450 ppm indicating the subsurface soils in the vicinity of the RCRA tank were significantly impacted by volatile organic constituents. Data indicate that impacted soils were not completely excavated following the April 1987 spill and/or that the RCRA tank was leaking over time.

There were no post-excavation confirmatory samples collected and analyzed following removal of the tank and backfilling of the excavation. HNU readings taken from the floor of the excavation at a final depth of 18 feet were as high as 20 ppm. HNU readings taken from the side walls of the excavation were as high as 50 ppm. This data indicates that soils containing significant concentrations of volatile organics were most likely left in place.

Groundwater monitoring well GT-9 was installed in July 1987, as part of the subsurface investigation. Monitoring well GT-13 was installed in August 1992, as part of an additional subsurface investigation for General Electric at the former General Electric Facility.

General Electric collected and analyzed groundwater from monitoring wells GT-9 and GT-13 for volatile organics four and one time, respectively. Volatile data are summarized below:

<u>Date</u>	<u>Analyte</u>	<u>GT-9</u>	<u>GT-13</u>
8/4/87	Voa EPA 624	no detections	not installed
8/21/87	Voa EPA 624	no detections	not installed
9/9/88	Xylene (Total)	141 ppb	not installed
9/11/92	Xylene (Total)	6,300 ppb	620 ppb
	Ethylbenzene	not detected	not detected

Based on the increase in xylene concentrations in monitoring well GT-9 between the September 1988 and September 1992 sampling events, GTI concluded that the June 1992 IMI wash solvent spill may have impacted groundwater quality.

In a February 1981, General Electric Report (Upgrading Bulk Storage and Handling Facilities for Spill Control) prepared by ES Engineering Science, GE documented numerous spills that occurred at the site during the two year period from 1978 through 1979. Most of these spills were located upgradient of the IMI tank car wash solvent discharge. A summary of these spills is presented below.

GE Spills at the RV-33 Tank Farm

The RV-33 Tank Farm is adjacent to the Tank Car unloading and loading area. The RV-33 Tank Farm is also in the same proximity as GT-9.

In April of 1978, GE recorded a spill of 4,000 gallons of xyleneol at the RV-33 Tank Farm. See, February, 1991 report prepared by ES Engineering Science for GE. Recorded GE spills prior to 1980 in the RV-33 Tank Farm include:

<u>Material</u>	<u>Quantity</u>	<u>Date</u>
Xyleneol	4,400 gal	April 5, 1978
Cresylic Acid	20 gal	April 27, 1978
Xyleneol	400 gal	October 20, 1978

GE Spills at the RV-33 Unloading Station

<u>Material</u>	<u>Quantity</u>	<u>Date</u>
Wire Enamel	4,000 gal	January 1978
Xyleneol	50 gal	February 2, 1979

GE Spills at the RV-33 Tank Car Unloading/Loading Area

<u>Material</u>	<u>Quantity</u>	<u>Date</u>
Alkanex-Wire Enamel	1500 gal	July 6, 1979

There is no indication in the GE, February 1991 report that these spills were remediated. There may be other GE spills of which IMI is unaware. Table 2.3 from the February 1991 report prepared by ES Engineering Science for GE is presented in Appendix A.

3.0 IMI WASH SOLVENT HISTORY & ANALYSIS

About the same time the wash solvent spill was noticed and reported to the hotline. Clean Harbors Environmental Services, Inc. (Clean Harbors) was retained for emergency response. Clean Harbors responded to the spill at approximately 3:00 p.m. on June 6, 1992. The spill area encompassed the railcar and an area under the car.

Shortly after Clean Harbors' arrival, it began to rain. Consequently, the work crew contained the spill by covering the contaminated area with polysheeting.

Cleanup resumed on June 8, 1992. The crew used stainless steel scrapers and rags, with MEK as a cleaning agent, to surface clean the railcar. The area around the railcar was excavated and drummed. Cleanup was completed June 10, 1992 at a cost of \$7,958.58. The drums were stored in IMI's RCRA container area until properly disposed. The railcar is no longer used.

On July 15, 1993, CTM personnel obtained a sample of the wash solvent used by IMI. Although the wash solvent had been used several times between the date of the spill and July 1993, the chemical constituents present in the wash solvent at the time of sample collection were similar to the composition of the wash solvent at the time it was spilled.

The wash solvent was analyzed by CTM for volatile organics and semi-volatile organics. Three volatile organic compounds, xylene, toluene and ethylbenzene were detected in the wash solvent. Due to the viscous nature of the wash solvent, the sample was analyzed as a solid material at a very high dilution rate. Toluene, ethylbenzene and xylene were detected at concentrations of 1,500 ug/kg, 300,000 ug/kg and 1,000,000 ug/kg, respectively. The analytical data revealed that xylene and ethylbenzene are the two primary constituents present in the wash solvent.

Ethylbenzene was not detected in the September 1992 groundwater sample from monitoring well GT-9. Considering that ethylbenzene was present in the IMI wash solvent at a significant concentration, it would be expected that if the xylene detected in the September 1992 GT-9 groundwater sample was related to the June 1992 IMI wash solvent spill, that ethylbenzene would also be detected in the groundwater sample. Although the September 1992 GT-9 sample was diluted by the laboratory due to high xylene concentrations, ethylbenzene would most likely be present and detected in the GT-9 sample if the wash solvent was the source. Therefore, the lack of ethylbenzene in the groundwater at GT-9 suggests that the presence of xylene is not related to IMI's June 1992 wash solvent spill. Wash solvent analytical reporting sheets are presented in Appendix B.

4.0 TANK CAR UNLOADING AREA BORING

On August 30, 1993, RUST supervised the installation of a subsurface boring. The boring was located within approximately ten feet of the reported IMI wash solvent spill location and between the spill location and monitoring well GT-9.

The boring was installed by Parratt Wolff, Inc., using hollow stem augers. Continuous samples were collected from the ground surface to the bottom of the boring using two foot split spoon samplers. All split spoon samples were screened with an HNU photoionization detector. The boring was installed to a maximum depth of 64 ft, groundwater was encountered at 60 ft. Two samples, one from 56 ft to 58 ft and one from 30 ft to 32 ft were collected and submitted to CTM Analytical Laboratories, Ltd., (CTM) for volatile organic and semi-volatile organic-acid extractable analysis. The subsurface material encountered in the boring consisted primarily of medium dense to fine sand with some silt. The boring log is included in Appendix C. Analytical results from the two samples collected from the boring are included in Appendix D.

HNU split spoon readings revealed that no split spoon samples exhibited any readings above background. The analytical results from the two split spoon samples revealed that with the exception of low concentrations of methylene chloride in both samples and acetone in one sample, no volatile organics were detected in the samples. The methylene chloride and acetone are most likely laboratory derived and were not actually present in the split spoon samples. Both methylene chloride and acetone are common laboratory contaminants.

The analytical results from the two subsurface soil samples reveals that no appreciable quantity, if any, of wash solvent from the IMI wash solvent spill reached the groundwater table. If a significant quantity of material had reached the groundwater table, sufficient to result in a groundwater xylene concentration of 6,300 ug/L, at least trace concentrations of wash solvent constituents would be expected to be sorbed to the unsaturated zone material.

Since the boring was installed between the tank car spill and GT-9 and adjacent to the spill zone, detectable concentrations of xylene and ethylbenzene, the two principle constituents of the wash solvent, would have been expected in the two boring samples. Neither the sample collected immediately above the water table or the sample collected halfway to the water table exhibited detectable concentrations of either analyte.

5.0 GT-9 AND GT-13 AUGUST 1993 ANALYTICAL RESULTS

On September 2, 1993, RUST personnel collected groundwater samples from monitoring wells GT-9 and GT-13. Samples were submitted to CTM analytical laboratories for volatile organic and acid extractable-semi-volatile organic analysis. Laboratory reporting sheets are presented in Appendix E.

Monitoring wells were redeveloped prior to purging and collection of the groundwater samples. Immediately prior to sample collection, samples were purged of three well volumes. Samples were collected using new dedicated PVC bailers and new nylon cord.

Analytical results revealed that xylene was the only compound detected in either monitoring well. Ethylbenzene, a major constituent of the IMI wash solvent, was not detected in the GT-9 groundwater sample.

The xylene concentration in GT-9 and GT-13 were 150 ug/L and 170 ug/L, respectively. The xylene concentration detected in the GT-9 and GT-13 groundwater samples are significantly lower than the concentration reported in the September 1992 samples from these wells. The September 1993 xylene concentration from GT-9 is consistent with the September 1988 xylene concentration.

Monitoring wells GT-9 and GT-13 are located approximately 30 ft and 250 ft, respectively, upgradient from the location of the June 1992 IMI wash solvent spill. The groundwater flow direction is from the south to north or from the monitoring wells to the location of the wash solvent spill. It is not possible that the wash solvent spill could have impacted groundwater quality in the vicinity of GT-13. The data indicate a xylene source not related to the IMI wash solvent spill.

The significantly lower September 1993 groundwater xylene concentrations in both GT-13 and GT-9 verses the September 1992 sample results, indicates that the elevated xylene concentrations detected in September 1992 was most likely associated with the movement of a "slug" of contaminated groundwater past the monitoring wells, with the most significant contamination having already moved past monitoring well GT-13. The data indicate that the source of the contaminated groundwater was located upgradient of monitoring well GT-13 and was not the IMI wash solvent spill, which was located downgradient of GT-13.

As discussed in Section 6.0 herein, the groundwater gradient across the IMI site is relatively low and groundwater movement is slow. It is possible that the contaminated groundwater detected in groundwater monitoring wells GT-13 and GT-9 were both associated with the same upgradient source, possibly the former RCRA hazardous waste storage tank or former GE xylenol spills around GT-9 and the RV-33 tank farm and RV-33 unloading station.

6.0 GROUNDWATER FLOW DIRECTIONS AND RATES

Figure 1, depicts the groundwater flow gradient at the site. Groundwater contours are based on water level measurements performed on August 31, 1993 by RUST E&I. Groundwater contours clearly indicate that monitoring wells GT-13 and GT-9 are both downgradient of the former RCRA hazardous waste storage tank. Groundwater flow data also indicate that monitoring well GT-13 is well upgradient of the IMI wash solvent spill location. Although GT-9 is only approximately 30 ft from the location of the June 1992 wash solvent spill, it is still upgradient of the location of the spill.

Groundwater flow rates or velocities across the site are highly variable. Additionally, groundwater velocities will vary dependent on the season of the year and the groundwater levels. Under high groundwater conditions, flow velocities may potentially be significantly higher than during low groundwater conditions. Groundwater hydraulic gradients were calculated based on water level data collected by RUST E&I personnel on August 31, 1993.

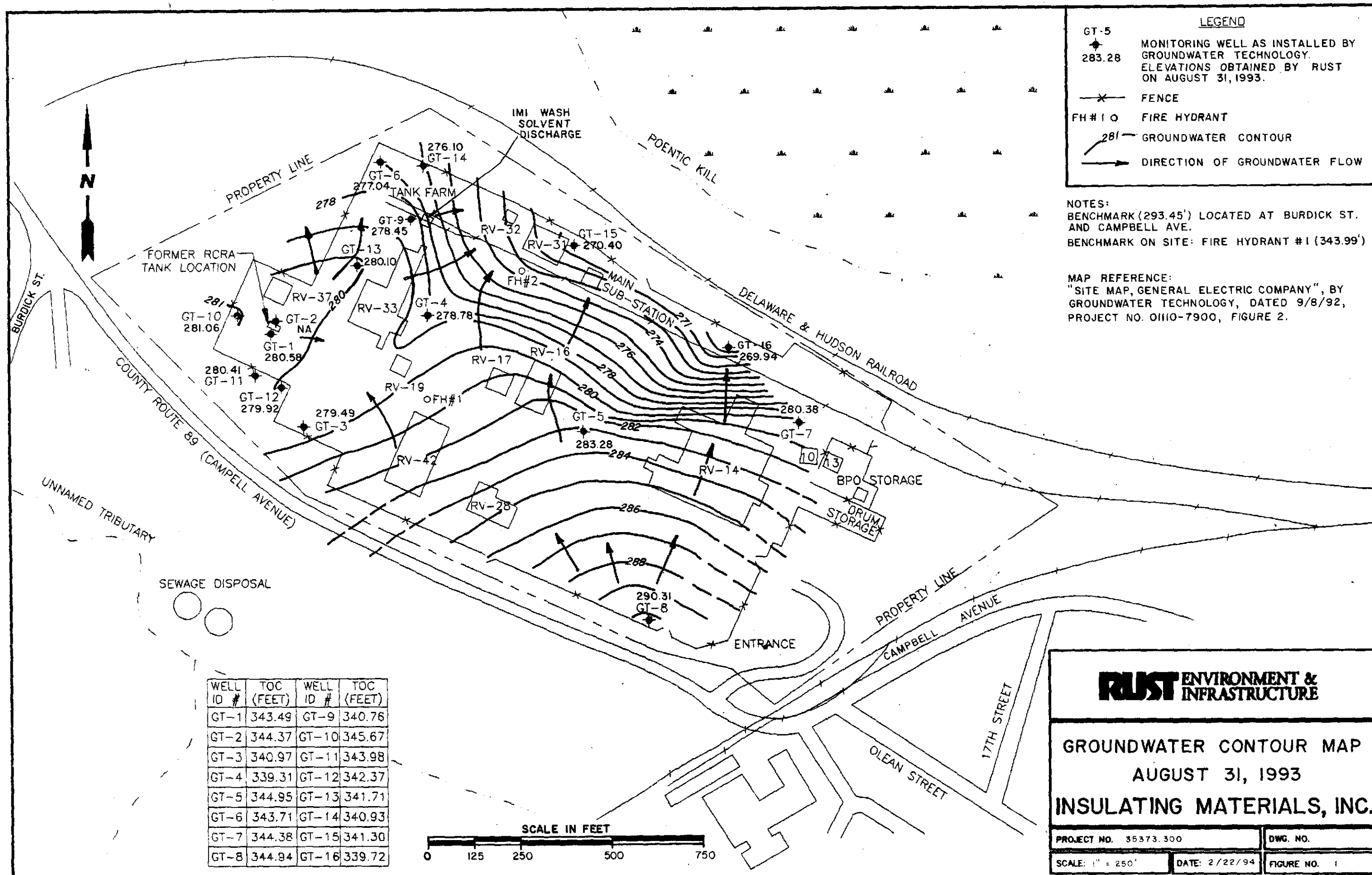
Velocities were calculated based on Darcy's Law, modified to account for porosity as follows:

$$v = Ki/n$$

where v is velocity (feet/day), K is the hydraulic conductivity (feet/day), i is the hydraulic gradient (feet/feet) and n is the effective saturated zone porosity.

An average effective porosity for sand, the principle material at the IMI facility, is 30%, and this was used in the calculation of site velocities. A hydraulic conductivity of 1.56×10^{-3} cm/sec was used. This value is the geometric mean of hydraulic conductivities from the site as presented in the GTI May 16, 1988 Report (Assessment of Groundwater Conductivities, General Electric Corporation, Riverview Plant, Schenectady, New York).

Groundwater velocity calculations under low flow conditions indicate that estimated groundwater flow rates from monitoring well GT-1 (adjacent to the former GE RCRA hazardous waste tank) to GT-13 and GT-13 to GT-9 would be 8 ft/year and 43 ft/year, respectively. As previously stated, groundwater flow rates under higher water level conditions are most likely significantly faster. However, the estimated flow rates reveal that groundwater flow in the western part of the site is relatively slow. Velocity calculations indicate that it would take a significant amount of time for groundwater contaminated by spills or leaks in the vicinity of the RCRA hazardous waste tank to reach GT-13 and GT-9. Data indicate that it is quite possible that the elevated xylene concentration detected in the September 1992 groundwater sample from GT-9 to be associated with either the 1987 spill at the RCRA hazardous waste tank, potential chronic leakage from the RCRA tank or former GE xlenol spills.



7.0 CONCLUSIONS

Groundwater flow conditions at the site, site analytical data and chemical composition of the wash solvent all indicate that the IMI June 1992 wash solvent spill did not impact groundwater quality at the site.

Groundwater flow directions indicate that monitoring well GT-13 is well upgradient of the wash solvent spill location. Groundwater flow rates are low in the vicinity of the former RCRA hazardous waste storage tank and GT-13 and GT-9. It is possible that the elevated xylene concentration detected in the September 1992 groundwater sample from monitoring well GT-9 is associated with a "slug" of contaminated groundwater moving away from the RCRA hazardous waste storage tank spill zone or former GE xylenol spills.

Neither xylene or ethylbenzene were detected in subsurface boring samples collected adjacent to the wash solvent spill location at depths just above the water table and halfway to the water table. Data indicate that the wash solvent associated with the June 1992 spill at the IMI facility did not impact groundwater.

mhh
imirpt.doc
February 23, 1994

APPENDIX A

**TABLE 2.3
GE FEBRUARY 1991 REPORT
RECENT CHEMICAL SPILLS**

FINAL REPORT

UPGRADING BULK STORAGE AND HANDLING FACILITIES FOR SPILL CONTROL

PREPARED FOR

GENERAL ELECTRIC COMPANY
INSULATING MATERIALS
SCHENECTADY, NEW YORK

FEBRUARY, 1981

ENGINEERING-SCIENCE
ES

TABLE 2.3
RECENT CHEMICAL SPILLS

Spill Number/ date/time	Location	Material/ Quantity	Cause	Cost	Corrective Action
10/80 7/1 Mid-Pan	RV-33 unloading Station	Wire Enamel 4,000 gal.	hose rupture during unloading (human error)	\$70,000 Est.	Questionable hoses discarded. Restrictions applied; hose types, (only polyethylene lined hoses are permitted). All discharges to be hard piped.
7/8-2 4/5/78 2nd Shift	RV-33 Tank Farm	Xylene 4,400 gal.	#6 Tank - Bottom clean out cover not closed. (human error).	\$30,000 Est.	Established requirement for visual checking of active processes underway
7/8 4 4/21/78 10:00 a.m.	RV-33 Tank Farm	Cresylic Acid 20 gal.	#3 tank overflowed during fill	200 Est.	A/R 518 (\$80,000) to upgrade tank farm and associated controls
7/8-5 10/20/78 11:00 a.m.	RV-33 Tank Farm	Xylene 400 gal.	Overflow (instru- mentation)	4,000 Est.	A/R 518 (above)
7/7/79 7/9 1 1/40/79 10:30 a.m.	RV-33 5000 Gal. Reactor	Xylene 400 gal.	Overflowed reactor (instrumentation) Flow meter mal- functioned	2,500 Est.	Process computer like A/R 512 should show fill status of reactors
7/9-2 2/9/79 11:30 a.m.	RV-33 unloading Station	Xylene 50 gal.	Improper vendor unloading	0 (chemical- isoman cleaned it up)	Storkkeeper placed in RV-33 full time to supervise and monitor loading/unloading
7/9 1 2/15/79 7:00 a.m.	RV-42 #2 Compressor	Nine bolt Resin 100 gal.	Improvisation of method due to re- moval of pump for repairs	900	Adhere to established practices
7/9-4 4/1/79 7:00 a.m.	RV-47 Outside mix col	Xylene Cresylic 20% Phenol 25% 6400 gal.	Failure of internal steam heating coil in mix col	\$169,000 (\$100,000 recovered through insurance claim)	Formal rigid procedure for pre-checking integrity of all full prior to filling; and maintaining permanent records
7/9 5 4/10/79 7:00 p.m.	RV-33 Storage #5	7302 Wire Enamel 200 gal.	Over flowed storage tank #5 (instru- mentation) level indicator gauge malfunctioned	3,000 Est.	Prepare new A/R to extend automatic device and controls now on yard storage under A/R 518 to include storage/blending tank also. (not started 10/79)
7/9-6 6/26/79 6:00 p.m.	RV-33 Piping Yard	7302 Wire Enamel 200-400 gal.	Fast seal (flange) gasket failed	2,000 Est.	Use proper gasketing and installation and dis- continue steam tracing in warm weather
7/9-7 7/6/79 3rd Shift	RV-33 Tank col loading Station	9534 Alkane Wire Enamel 1500 gal.	Overfilled tank car - no level sensor and no visual monitoring	7,000	Adhere to practice of visual monitoring of tank car fill level and explore level sensor/shutoff device
7/9-8 7/7/79 3rd Shift	RV-33 Piping Yard	7302 Wire Enamel 50 gal.	Gasket in fast seal flange failed	Included in 79-7 above (\$7,000)	Installed pressure relief line back to Indtex holding tank
7/9 9 10/25/79 1st Shift	RV-42 Tank Farm	Polyester Resin 50 gal.	Improper opening of pressure line by SRO craftsman	1,000 Est.	Adhere to established safety rules on opening lines and notification to foreman before com- mencing job

APPENDIX B

**WASH SOLVENT
ANALYTICAL DATA**

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930716J

Purchase Order Number: 236024
Date Sampled: 07/15/93 Time: 1:55 PM
Sampled By : WHITTLE
Sample Id: BIC WASH SOLVENT
Location : INSULATING MATERIALS

CTM Sample No: 930716J 01

Date Received: 07/16/93

Collection Method: GRAB

Matrix: LIQUID

Parameters and Standard Methodology Used

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
SW-846 8240 VOLATILES		COMPLETED			7/26
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			7/26
METHANOL EXTRACTION	SW-846 METHOD 5030	COMPLETED			7/26
CHLOROMETHANE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
VINYL CHLORIDE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
BROMOMETHANE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
CHLOROETHANE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
1,1-DICHLOROETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
METHYLENE CHLORIDE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,1-DICHLOROETHENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
CHLOROFORM	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
CARBON TETRACHLORIDE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
BENZENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
TRICHLOROETHENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
BROMODICHLOROMETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
TOLUENE	SW-846 METHOD 8240	1,500	1,300	MG/KG	MCG:54 7/26
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
CHLOROBENZENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
ETHYLBENZENE	SW-846 METHOD 8240	300,000	1,300	MG/KG	MCG:54 7/26
BROMOFORM	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
STYRENE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
ACETONE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930716J

Purchase Order Number: 236024
Date Sampled: 07/15/93 Time: 1:55 PM
Sampled By: WHITTLE
Sample Id: BIG WASH SOLVENT
Location: INSULATING MATERIALS

CTM Sample No: 930716J 01
Date Received: 07/16/93
Collection Method: GRAB
Matrix: LIQUID

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
CARBON DISULFIDE	SW-846 METHOD 8240	ND	1,300	MG/KG	MCG:54 7/26
VINYL ACETATE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
2-HEXANONE	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
XYLENE (TOTAL)	SW-846 METHOD 8240	1,200,000	1,300	MG/KG	MCG:54 7/26
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	2,500	MG/KG	MCG:54 7/26
SW-846 8270 BASE/NEUTRALS		COMPLETED			8/9
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			DO 7/26
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 3

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930716J

Purchase Order Number: 236024
Date Sampled: 07/15/93 Time: 1:55 PM
Sampled By: WHITTLE
Sample Id: BIC WASH SOLVENT
Location: INSULATING MATERIALS

CTM Sample No: 930716J 01
Date Received: 07/16/93
Collection Method: GRAB
Matrix: LIQUID

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/KG	GCMS D:64 8/9
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	50	MCG/KG	GCMS D:64 8/9
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	50	MCG/KG	GCMS D:64 8/9
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/KG	GCMS D:64 8/9
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	50	MCG/KG	GCMS D:64 8/9
SW-846 8270 ACID EXTRACTABLES		COMPLETED			8/9
ACID EXTRACTION SW 846 3500		COMPLETED			DO 7/26
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 4

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930716J

Purchase Order Number: 236024
Date Sampled: 07/15/93 Time: 1:55 PM
Sampled By : WHITTLE
Sample Id: BIC WASH SOLVENT
Location : INSULATING MATERIALS

CTM Sample No: 930716J 01
Date Received: 07/16/93
Collection Method: GRAB
Matrix: LIQUID

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	50	MCG/KG	GCMS D:64 8/9
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	50	MCG/KG	GCMS D:64 8/9
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	50	MCG/KG	GCMS D:64 8/9
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/KG	GCMS D:64 8/9

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

**CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270**

CLIENT: RUST

CTM PROJECT #: 93.04019
CTM TASK #: 930716J
CTM SAMPLE NO.: 930716J01
DATE RECEIVED: 7-16-93
DATE RUN: 8-10-93
MATRIX: Liquid

DATE SAMPLED: 7-15-93
SAMPLED BY: G. Whittle
CUSTOMER ID: Bic solvent wash

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	8.31	1,3-dimethyl-benzene	108-38-3	640	mg/kg
2	9.98	1,3,5-cycloheptatriene 7-ethyl	17634-51-4	36	mg/kg
3	10.17	1-ethyl-3-methyl-benzene	620-14-4	100	mg/kg
4	14.18	unknown	--	65	mg/kg
5	14.86	pentanedioic acid dimethyl ester	1119-40-0	100	mg/kg
6	15.53	3,4-dimethyl-phhenol	95-65-8	78	mg/kg
7	15.60	unknown	--	98	mg/kg
8	15.74	hexanedioic acid dimethyl ester	627-93-0	94	mg/kg
9	16.00	isomer of trimethyl phenol	496-78-6	52	mg/kg
10	16.06	unknown	--	70	mg/kg
11	16.25	unknown	1450-72-2	43	mg/kg
12	16.42	2-methyl-4-propyl phenol	18441-56-0	40	mg/kg

APPENDIX C

**TANK CAR AREA
BORING LOG**



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT	Tank Farm				SHEET 1 OF 6
CLIENT	Insulating Materials, Inc.				JOB No. 03282-02813
DRILLING CONTRACTOR	Perratt Wolff, Inc.				MEAS. PT ELEV.
PURPOSE	Tank Farm Investigation				GROUND ELEV.
DRILLING METHOD	Hollow Stem Auger	SAMPLE	CORE	CASING	DATUM MSL
DRILL RIG TYPE	Mobile B-57	TYPE	SS	HSA	DATE STARTED 08/30/93
GROUNDWATER ELEV.	61.55'	DIA.	2" OD	3 1/4" ID	DATE FINISHED 08/30/93
MEASURING POINT	BGS	WEIGHT	140#		DRILLER Mark Beck
DATE OF MEASUREMENT	8-30-93	FALL	30"		INSPECTOR Mark A. Williams

DEPTH FT.	INTERVAL RECOVERY, SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
			GW		Asphalt; 1 mf G		
					Br mf S, t \$ (SW)	0.4	HNU = 0.2 Bkgd HNU = 0 Spoon HNU = 0 HS Rec = 0.85' Moist
2	S-1	9	SW				
		10					
		8					
		10	SW		Br mf S, t \$; loose (SW)		HNU = 0 Spoon HNU = 0 HS Rec = 1.25' Dry
	S-2	6					
		8					
4		6					
		4			Dk br/br cmf S, t \$; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.4' Dry/Moist
	S-3	3	SP				
		3					
6		3					
		2			Br mf S; very loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.3' Dry/Damp
	S-4	2	SP				
		3					
8		4					
		2			Br m (+) f S; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.5' Damp
					<u>Brown medium (+) to fine SAND: loose (SP)</u>		
	S-5	2	SP				
		3					
		5			(LACUSTRINE DELTAIC)		



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT

Tank Farm

SHEET 2 OF 6

CLIENT

Insulating Materials, Inc.

JOB No.

03282-02813

DEPTH FT.	INTERVAL RECOVERY SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
		3			Br lt br c (+) mf S, t f G (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.7' Moist
	S-6	3	SP				
		4					
12		5					
		4			Br mf (+) S; loose (SP)		HNU = 0 Spoon
	S-7	4	SP		<u>Brown medium to fine (+) SAND; loose (SP)</u> (LACUSTRINE DELTAIC)		HNU = 0 HS Rec = 1.3' Moist
		6					
14		5					
		2			Br cmf S; very loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 0.85' Moist
	S-8	3	SP				
		2					
16		2					
		2			Br mf S; very loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.1' Moist
	S-9	2	SP				
		2					
18		3				43.8 17.8	
		4			Br mf (+) S, t f; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 0.9' Moist
	S-10	4	SP				
		3					
20		4					
		2			Lt br mf(+) S; loose; soft/medium (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.1' Moist
	S-11	2	SP				
		7					
22		9					
		8			Br mf(+) S, t (-) f; loose/medium (SP)		HNU = 0 Spoon



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT

Tank Farm

SHEET 3 OF 6

CLIENT

Insulating Materials, Inc.

JOB No.

03282-02813

DEPTH FT.	INTERVAL, RECOVERY, SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
	S-12	10	SP				HNU = 0 HS Rec = 1.0' Moist
		13					
24		13					
		5			Br mf S; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.5' Damp
	S-13	6	SP				
		8					
26		8					
		6			Br lt br mf (+) S; t (-) S; loose/medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 0.85' Moist
	S-14	7	SP				
		11					
28		12					
		10			Br mf (+) S, t S; loose/medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.25' Moist
	S-15	9	SP				
		10					
30		11					
		8			Br mf S, t S; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.1' Moist/Damp
	S-16	7	SP				
		8					
32		8					
		5			Br f S, t (-) S; loose (SP) <u>Brown fine SAND, trace (-) Silt: loose (SP)</u> (LACUSTRINE DELTAIC)		HNU = 0 Spoon HNU = 0 HS Rec = 1.25' Moist/Damp
	S-17	6	SP				
		8					
34		9					
		6	SP		Br mf S; loose (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.3'
		7				26.6	



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT

Tank Farm

SHEET 4 OF 6

CLIENT

Insulating Materials, Inc.

JOB No.

03282-02813

DEPTH FT.	INTERVAL RECOVERY SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
	S-18		SM		Br f S, s \$, l (-) C	35.0	Moist/Wet
		4				26.0	
36		19	SP		Br f S; medium dense (SP)	35.6	Wet
		10			Br f S, s (-) \$; medium dense (SM)		HNU = 0 Spoon HNU = 0 HS Rec - 1.8' Moist/Damp
	S-19	11	SM				
		14					
		17					
38		10	SP		Br f S; damp (SP)		HNU = 0 Spoon HNU = 0 HS
					Br f S, s \$, l (-) C; moist (SM)	23.0	Rec - 1.85'
	S-20	9	SM		Br f S, l (+) \$; damp (LACUSTRINE DELTAIC)	38.6 22.6	Damp/Moist
		10				39.0	
		12	SM				
40		11			Lt br f S; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec - 1.4' Damp
	S-21	12	SP				
		10					
		10					
42		9			Br mf S, l \$; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec - 1.65' Damp/Moist
	S-22	10	SP				
		16					
		17					
44		9			Br mf(+) S; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec - 1.55' Damp
	S-23	11	SP				
		15					
		15					
46		8			Lt br f S, l (-) \$; medium dense Light brown fine SAND, trace (-) Silt; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec - 1.8' Damp
	S-24	8	SP		(LACUSTRINE DELTAIC)		
		14					



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT Tank Farm

SHEET 5 OF 6

CLIENT Insulating Materials, Inc.

JOB No. 03282-02813

DEPTH FT.	INTERVAL, RECOVERY, SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
48	S-25	21	SP		Lt br f S; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.7' Damp/Moist
		12					
		9					
		15					
		22					
50	S-26	21	SP		Lt br f S, l S; medium dense (SM)		HNU = 0 Spoon HNU = 0 HS Rec = 1.6' Moist
		18					
		19					
		24					
		14					
52	S-27	21	SP		Lt br/br mf (+) S, l (+) S; medium dense (SP)		HNU = 0 Spoon HNU = 0.4 HS Rec = 1.65' Moist/Wet
		25					
		25					
		25					
54		S-28	14		SP		(LACUSTRINE DELTAIC) Br mf (+) S, l (+) S; medium dense (SP)
	17						
	19						
	23						
	12						
56	S-29	13	SP		Br mf S, l (-) S; medium dense (SP) <u>Brown medium to fine SAND, little (-) Silt;</u> <u>medium dense (SP)</u> (LACUSTRINE DELTAIC)		HNU = 0 Spoon HNU = 0 HS Rec = 1.3' Moist
		13					
		13					
		13					
		13					
58	S-30	13	SP		Br f S, l (-) S; medium dense (SP)		HNU = 0 Spoon HNU = 0 HS Rec = 1.8' Moist
		14					
		16					
						-1.7	



Dunn Engineering Company
Albany, NY 12205 (518)458-1313

TEST BORING LOG

BORING No. TFSB-1

PROJECT

Tank Farm

SHEET 6 OF 6

CLIENT

Insulating Materials, Inc.

JOB No.

03282-02813

DEPTH FT.	INTERVAL, RECOVERY, SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI- FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	ELEV. DEPTH	REMARKS
62	S-31	12 12 19 18	SM		Br mf (+) S, s (-) \$, l C; medium dense (SM)	59.9	HNU = 0 Spoon HNU = 0 HS Rec = 1.75' Moist/Wet
	S-32	17 17 21 22	SM		Dk br/br f S, l (+) \$, l C; medium dense (SM) <u>Dark brown/brown fine SAND, little (+) Silt,</u> <u>little Clay; medium dense (SM)</u> (LACUSTRINE DELTAIC)		HNU = 0 Spoon HNU = 0.8 HS Rec = 1.8' Wet
64					End of Boring @ 64.0' *Sample numbers S-16 and S-29 sent to CTM Analytical for -8240 w/library search -8270 (acid extractables only)	64.0	Total Footage=64' Total Samples=32 Boring abandoned w/cement/ bentonite mixture Total: 5 94# bags ICC Type I 1 50# bag Big Horn Bentonite Water level @ GT-9 was 62.3' from grnd surface (18:55)

APPENDIX D

SOIL BORING ANALYTICAL DATA

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 1



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9308318

Purchase Order Number: 236019
Date Sampled: 08/30/93 Time: 4:22 PM
Sampled By : WILLIAMS
Sample Id: TFSB-1A (30-32')
Location : SCHENECTADY, NY

CTM Sample No: 9308318 01
Date Received: 08/31/93
Collection Method: GRA8
Matrix: SOIL

Parameters and Standard Methodology Used

% SOLIDS	CLP SOW 4/89
SW-846 8270 ACID EXTRACTABLES	
ACID EXTRACTION SW 846 3500	
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240

Results	POL	Unit	Analyst Reference
90		%	SP 9/7
COMPLETED			9/8/93
COMPLETED			JF 9/1
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	360	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	890	MCG/KG	GCMSD:72 9/8/93
ND	890	MCG/KG	GCMSD:72 9/8/93
ND	890	MCG/KG	GCMSD:72 9/8/93
ND	890	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
ND	180	MCG/KG	GCMSD:72 9/8/93
COMPLETE			9/2/93
COMPLETE			9/2/93
ND	11	MCG/KG	MCG:94 9/2
ND	11	MCG/KG	MCG:94 9/2
ND	11	MCG/KG	MCG:94 9/2
ND	11	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
(4) 12	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2
ND	6	MCG/KG	MCG:94 9/2

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00003

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9308318

Purchase Order Number: 236019
Date Sampled: 08/30/93 Time: 4:22 PM
Sampled By : WILLIAMS
Sample Id: TFSB-1A (30-32')
Location : SCHENECTADY, NY

CTM Sample No: 9308318 01
Date Received: 08/31/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
TRICHLOROETHENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
BROMODICHLOROMETHANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
TOLUENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
CHLOROBENZENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
ETHYLBENZENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
BROMOFORM	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
STYRENE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
ACETONE	SW-846 METHOD 8240	(4)	30	MCG/KG	MCG:94 9/2
CARBON DISULFIDE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
VINYL ACETATE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:94 9/2
2-HEXANONE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:94 9/2
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:94 9/2
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:94 9/2
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:94 9/2

REMARKS: (4) Suspected laboratory artifact.

00004
LEGEND: NG/KG=PPM, MCG/KG=PPB, NG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 8-30-93
SAMPLED BY: Williams
CUSTOMER ID: TFSB-1A (30'-32')

CTM PROJECT #: 93.04019
CTM TASK #: 930831B
CTM SAMPLE NO.: 930831B-01
DATE RECEIVED: 8-31-93
DATE RUN: 9-2-93
MATRIX: Soil

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------	-------------------------------------	------	---------------	-------

No Unidentified Peaks Detected

CTM Analytical Laboratories, Ltd.

PAGE 3

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9308318

Purchase Order Number: 236019
Date Sampled: 08/30/93 Time: 6:50 PM
Sampled By: WILLIAMS
Sample Id: TFSB-18 (56-58')
Location: SCHENECTADY, NY

CTM Sample No: 9308318 02
Date Received: 08/31/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

		Results	POL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	7		%	SP 9/7
SW-846 8270 ACID EXTRACTABLES		COMPLETED			9/8/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 9/1/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	330	MCG/KG	GCMSD:72 9/8/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	830	MCG/KG	GCMSD:72 9/8/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	830	MCG/KG	GCMSD:72 9/8/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	830	MCG/KG	GCMSD:72 9/8/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	830	MCG/KG	GCMSD:72 9/8/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMSD:72 9/8/93
SW-846 8240 VOLATILES		COMPLETED			9/2/93
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			9/2/93
CHLOROMETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
VINYL CHLORIDE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
BROMOMETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
CHLOROETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
1,1-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
METHYLENE CHLORIDE	SW-846 METHOD 8240	(4) 5	5	MCG/KG	MCG:94 9/2
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
1,1-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
CHLOROFORM	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
CARBON TETRACHLORIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
BENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00011

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 4



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9308318

Purchase Order Number: 236019
Date Sampled: 08/30/93 Time: 6:50 PM
Sampled By: WILLIAMS
Sample Id: TFSB-1B (56-58')
Location: SCHENECTADY, NY

CTM Sample No: 9308318 02
Date Received: 08/31/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
TRICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
BROMODICHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
TOLUENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
CHLOROBENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
ETHYLBENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
BROMOFORM	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
STYRENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
ACETONE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
CARBON DISULFIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
2-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:94 9/2
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:94 9/2

REMARKS:

END OF REPORT

00012

LEGEND: MG/KG=PPM, MCG/KG=PPB, NG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

CTM PROJECT #: 93.04019
CTM TASK #: 930831B
CTM SAMPLE NO.: 930831B-02
DATE RECEIVED: 8-31-93
DATE RUN: 9-2-93
MATRIX: Soil

DATE SAMPLED: 8-30-93
SAMPLED BY: Williams
CUSTOMER ID: TFSB-1B (56'-58')

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------	-------------------------------------	------	---------------	-------

No Unidentified Peaks Detected

APPENDIX E

**GT-9 AND GT-13
GROUNDWATER ANALYTICAL DATA**

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. MARK WILLIAMS

CTM Task #: 930902G

Purchase Order Number: 236019
Date Sampled: 09/02/93 Time: 10:05 AM
Sampled By: SLATER
Sample Id: GT-13
Location: SCHENECTADY, NY

CTM Sample No: 930902G 01
Date Received: 09/02/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

SW-846 8240 VOLATILES
PURGE & TRAP EXTRACTION SW-846 METHOD 5030
CHLOROMETHANE SW-846 METHOD 8240
VINYL CHLORIDE SW-846 METHOD 8240
BROMOMETHANE SW-846 METHOD 8240
CHLOROETHANE SW-846 METHOD 8240
1,1-DICHLOROETHANE SW-846 METHOD 8240
METHYLENE CHLORIDE SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE SW-846 METHOD 8240
1,1-DICHLOROETHENE SW-846 METHOD 8240
CHLOROFORM SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE SW-846 METHOD 8240
CARBON TETRACHLORIDE SW-846 METHOD 8240
BENZENE SW-846 METHOD 8240
1,2-DICHLOROETHANE SW-846 METHOD 8240
TRICHLOROETHENE SW-846 METHOD 8240
1,2-DICHLOROPROPANE SW-846 METHOD 8240
BROMODICHLOROMETHANE SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
TOLUENE SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE SW-846 METHOD 8240
TETRACHLOROETHENE SW-846 METHOD 8240
DIBROMOCHLOROMETHANE SW-846 METHOD 8240
CHLOROBENZENE SW-846 METHOD 8240
ETHYLBENZENE SW-846 METHOD 8240
BROMOFORM SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE SW-846 METHOD 8240
STYRENE SW-846 METHOD 8240
ACETONE SW-846 METHOD 8240
CARBON DISULFIDE SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
COMPLETED			9/2/93
COMPLETED			9/2/93
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 2



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. MARK WILLIAMS

CTM Task #: 930902G

Purchase Order Number: 236019
Date Sampled: 09/02/93 Time: 10:05 AM
Sampled By : SLATER
Sample Id: GT-13
Location : SCHENECTADY, NY

CTM Sample No: 930902G 01
Date Received: 09/02/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
2-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
XYLENE (TOTAL)	SW-846 METHOD 8240	170	5	MCG/L	MCG:96 9/2
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	5	MCG/L	MCG:96 9/2
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
SW-846 8270 ACID EXTRACTABLES		COMPLETED			9/8/93
ACID EXTRACTION SW 846 3500		EXTRACTED			DO 9/3/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	GCMSD:72 9/8/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 9-2-93
SAMPLED BY: Slater
CUSTOMER ID: GT-13

CTM PROJECT #: 93.04019
CTM TASK #: 930902G
CTM SAMPLE NO.: 930902G-01
DATE RECEIVED: 9-2-93
DATE RUN: 9-3-93
MATRIX: Water

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	18.33	(1-methylethyl)-benzene	98828	27	mcg/l
2	19.22	isomer trimethyl benzene		1300	mcg/l
3	20.21	isomer trimethyl benzene		830	mcg/l
4	20.99	isomer trimethyl benzene		290	mcg/l
5	21.35	1-propenyl-benzene	637503	58	mcg/l
6	22.23	1-methyl-3-(1-methylethyl) benzene	535773	110	mcg/l
7	23.01	1-ethyl-3,5-dimethyl benzene	585740	8	mcg/l
8	23.33	1-methyl-4-(1-methhyl ethyl) benzene	99876	22	mcg/l

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

Laboratory Analysis Report
Prepared for: RUST ENV. & INFRASTRUCTURE
Project Number: 93.04019
Task Number: 930901N
04 OCT 1993

IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.

AUTHORIZED FOR RELEASE: *C. [signature]*

CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

PA: 68-402

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 1



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. MARK WILLIAMS

CTM Task #: 930901N

Purchase Order Number: 236019
Date Sampled: 09/01/93 Time: 12:15 PM
Sampled By: SLATER
Sample Id: GT-9
Location: SCHENECTADY, NY

CTM Sample No: 930901N 01
Date Received: 09/01/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

SW-846 8240 VOLATILES
PURGE & TRAP EXTRACTION SW-846 METHOD 5030
CHLOROMETHANE SW-846 METHOD 8240
VINYL CHLORIDE SW-846 METHOD 8240
BROMOMETHANE SW-846 METHOD 8240
CHLOROETHANE SW-846 METHOD 8240
1,1-DICHLOROETHANE SW-846 METHOD 8240
METHYLENE CHLORIDE SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE SW-846 METHOD 8240
1,1-DICHLOROETHENE SW-846 METHOD 8240
CHLOROFORM SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE SW-846 METHOD 8240
CARBON TETRACHLORIDE SW-846 METHOD 8240
BENZENE SW-846 METHOD 8240
1,2-DICHLOROETHANE SW-846 METHOD 8240
TRICHLOROETHENE SW-846 METHOD 8240
1,2-DICHLOROPROPANE SW-846 METHOD 8240
BROMODICHLOROMETHANE SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
TOLUENE SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE SW-846 METHOD 8240
TETRACHLOROETHENE SW-846 METHOD 8240
DIBROMOCHLOROMETHANE SW-846 METHOD 8240
CHLOROBENZENE SW-846 METHOD 8240
ETHYLBENZENE SW-846 METHOD 8240
BROMOFORM SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE SW-846 METHOD 8240
STYRENE SW-846 METHOD 8240
ACETONE SW-846 METHOD 8240
CARBON DISULFIDE SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
COMPLETED			9/2/93
COMPLETED			9/2/93
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2
ND	10	MCG/L	MCG:96 9/2
ND	5	MCG/L	MCG:96 9/2

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 2



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

Attention: MR. MARK WILLIAMS

Purchase Order Number: 236019
Date Sampled: 09/01/93 Time: 12:15 PM
Sampled By: SLATER
Sample Id: GT-9
Location: SCHENECTADY, NY

CTM PROJECT #: 93.04019

CTM Task #: 930901M

CTM Sample No: 930901M 01
Date Received: 09/01/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
2-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
XYLENE (TOTAL)	SW-846 METHOD 8240	150	5	MCG/L	MCG:96 9/2
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCG/L	MCG:96 9/2
SW-846 8270 ACID EXTRACTABLES		COMPLETED			9/8/93
ACID EXTRACTION SW 846 3500		EXTRACTED			DO 9/3/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	GCMSD:72 9/8/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMSD:72 9/8/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMSD:72 9/8/93

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

CTM PROJECT #: 93.04019
CTM TASK #: 930901N
CTM SAMPLE NO.: 930901N-01
DATE RECEIVED: 9-1-93
DATE RUN: 9-2-93
MATRIX: Water

DATE SAMPLED: 9-1-93
SAMPLED BY: Slater
CUSTOMER ID: GT-9

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	18.26	1-methylethyl-benzene	98828	26	mcg/l
2	18.92	propyl-benzene	103651	31	mcg/l
3	19.11	1-ethyl-2-methyl-benzene	611143	91	mcg/l
4	19.22	isomer trimethyl-benzene		26	mcg/l
5	19.56	1-ethyl-4-methyl-benzene	622968	77	mcg/l
6	19.86	isomer trimethyl-benzene		68	mcg/l
7	20.60	isomer trimethyl-benzene		50	mcg/l
8	20.96	1H-indene,2,3-dihydro	496117	6	mcg/l

**Insulating Materials, Inc.
73128 Product Discharge Remediation**

Prepared for:

**Insulating Materials, Inc.
Schenectady, New York**

February 1994

QUALITY



INTEGRITY



CREATIVITY



RESPONSIVENESS

RUST ENVIRONMENT &
INFRASTRUCTURE



TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1
2.0 IMI 73128 CHEMICAL COMPOSITION	2
3.0 INITIAL CLEANUP RESPONSE	4
4.0 PROPOSED RECOMMENDED SOIL CLEANUP OBJECTIVES	5
5.0 FIELD SAMPLING AND SOIL EXCAVATION LABORATORY ANALYTICAL DATA	6
5.1 JUNE 1993 - GROUNDWATER AND SUBSURFACE BORING SAMPLES	6
5.2 AUGUST 1993 - POST-EXCAVATION SAMPLES	10
5.3 OCTOBER 1993 - POST-EXCAVATION SAMPLES	11
5.4 DECEMBER 1993 - POST-EXCAVATION SAMPLES	14
6.0 CONCLUSIONS	18

LIST OF FIGURES

Figure

1	Post-Excavation Sample Locations, December 1993	15
---	---	----

LIST OF TABLES

Table

1	Soil HNU Photoionization Measurements	8
2	Summary Subsurface Soil Analytical Results, June 1993	9
3	Post-Excavation Samples, August 1993	12
4	Post-Excavation Samples, October 1993	13
5	Post-Excavation Samples, December 1993	17

LIST OF APPENDICES

Appendix

- A TCLP Composite Sample Analytical Results
- B June 1993 - Subsurface Boring Samples and GT-4 Groundwater Analytical Data
- C August 1993 - Post-Excavation Sample Analytical Results
- D October 1993 - Post-Excavation Sample Analytical Results
- E December 1993 - Post-Excavation Sample Analytical Results

1.0 INTRODUCTION

This report details the activities taken by Insulating Materials, Inc. (IMI) with respect to the May 6, 1993 accidental discharge of approximately 50 gallons of 73128 product near the southeast corner of building RV33, New York State Department of Environmental Conservation Spill No. 9301681. This report presents the results of a phased excavation program in which post-excavation samples were collected following each phase of the excavation. A total of approximately 1000 cubic feet of soil was excavated from the spill area during the four separate excavation events. All excavated soil was placed in fifty-five gallon drums. Post-excavation samples were collected following each phase of soil removal. Samples were analyzed by CTM Analytical Laboratories, Ltd. (CTM).

A recommended soil cleanup objective (RSCO) for phenol, the primary compound of concern based on the results of the initial field samples, is provided. The final post-excavation analytical results indicated that the accidental discharge of 73128 product at the IMI facility has been adequately remediated.

2.0 IMI 73128 CHEMICAL COMPOSITION

The chemical composition of the 73128 product is detailed below:

73128 Composition

<u>Item</u>	<u>Weight %</u>
Blocked isocyanate resin	41.97
Dibutyltin dilaurate	0.03
Aromatic 100	30.8
Dibasic esters	6.6
Phenol	12.7
Mesitol	7.3
Cresylic acid	0.6
	100.0

Aromatic 100, CAS #64752-95-6 is a distillation column fraction composed of many items. Only the SARA 313 items are known:

<u>Item</u>	<u>CAS #</u>	<u>Weight %</u>
1,2,4 trimethyl benzene	95-63-6	32.0
Xylene	1330-20-7	3.0
Cumene	98-82-8	1.5
Ethyl benzene	100-41-4	0.5

Dibasic esters is a blend:

<u>Item</u>	<u>CAS #</u>	<u>Weight %</u>
Dimethyl glutarate	1119-40-0	60.0
Dimethyl adipate	627-93-0	17.5
Dimethyl succinate	106-65-0	22.5

Mesitol is a distillation column fraction composed of several items:

<u>Item</u>	<u>CAS #</u>	<u>Weight %</u>
2,4,6-trimethyl phenol	527-60-6	84.1
2-methyl phenol	95-48-7	2.1
2,4-dimethyl phenol	105-67-9	6.0
Phenol	108-95-2	1.0
Dimethyl phenol	1300-71-6	3.3
Methyl phenol	1319-77-3	3.5

Cresylic acid is a distillation fraction composed of the following SARA 313 chemicals:

<u>Item</u>	<u>CAS #</u>	<u>Weight %</u>
m-Cresol	108-39-4	19.0
p-Cresol	106-44-5	11.0
2,4-dimethyl phenol	105-67-9	9.0
o-Cresol	95-48-7	8.0
Phenol	108-95-2	7.0

Based on the chemical composition of the product, post-excavation samples were analyzed for volatile organic (EPA SW-846 Method 8240) and semi-volatile organic (EPA SW-846 Method 8270) compounds. This analysis was performed in conjunction with an NBS library search to evaluate the potential presence of the 73128 chemical compounds which are non-target compounds in the respective analytical methods.

3.0 INITIAL CLEANUP RESPONSE

Immediately after determining that there was an accidental discharge of 73128 product and notifying NYSDEC, IMI had West Central Environmental, Inc., personnel, excavate approximately 375 cubic feet of soil from the spill area. This resulted in an "L" shaped excavation approximately two feet deep.

On May 7, 1993, IMI collected a composite sample consisting of several grab samples obtained from the floor of the excavation. The sample was submitted for TCLP analysis of the chemical constituents of the 73128 product using USEPA SW-846 Method 8240 volatile organics and SW-846 Method 8270 semi-volatile organics, both with library searches for the non-standard compounds present in the 73128 product.

The TCLP analysis of the composite sample exhibited a high phenol concentration, with lower concentrations of other 73128 product constituents. The TCLP extraction analytical results were transmitted to NYSDEC in a May 13, 1993 letter from IMI. Analytical results are provided in Appendix A.

Based on the analytical data, NYSDEC requested that two additional subsurface soil samples be collected and that HNU photoionization measurements be performed every two feet. Additionally, based on the composite TCLP sample results, which exhibited a TCLP phenol concentration above the total matrix phenol soil cleanup value proposed by IMI, excavation of additional soil from the spill area was required. The analytical results from post-excavation samples are discussed in sections 5.2, 5.3 and 5.4 of this report.

IMI placed a covered enclosure over the site of the spill to minimize any infiltration in the area. This served to minimize the movement of contaminants while the accidental discharge was investigated and remediated.

4.0 PROPOSED RECOMMENDED SOIL CLEANUP OBJECTIVES

The results of the initial TCLP samples collected at the site of the 73128 product discharge and subsequent analyses, revealed that phenol was the principle compound which would require the excavation of additional soil and would determine the point at which the area was adequately remediated.

The NYSDEC groundwater standard for total phenolic compounds, which would include phenol, is 1 ppb. NYSDEC uses the partition coefficient theory to calculate chemical specific RSCOs. This theory uses the chemical specific partition coefficient (Koc) and a measured or assumed soil organic carbon content.

The NYSDEC RSCO for phenol is 30 ppb. However, this standard is based on a NYSDEC groundwater standard for total phenolic compounds and total chlorinated phenolic compounds. There is no specific NYSDEC groundwater or surface water standard for the compound phenol. The NYSDEC surface water standard of 1 ppb is based on the potential for tainting of fish flesh at concentrations above 1 ppb. The basis of the NYSDEC groundwater standard is not clear, however, it is possible that the NYSDEC applied the surface water standard to groundwater.

The USEPA, Ambient Water Quality Criteria (AWQC) value for the compound phenol, is 300 ppb. This value is based on the protection of both aquatic life and human health (human consumption of aquatic life and drinking water). Using the EPA AWQC as the groundwater standard and applying the NYSDEC criteria for calculating RSCOs, the RSCO for the compound phenol would be 8,100 ppb.

$$\begin{aligned}\text{Conc.} &= \text{GW Stnd} * \text{Koc} * \text{fraction organic carbon} * \text{CF} (100) \\ &= 0.300 \text{ ppb} * 27 * 0.01 * 100 \\ &= 8,100 \text{ ppb}\end{aligned}$$

The New Jersey DEPE (NJDEPE) has established a soil cleanup criteria for phenol, based on an impact to groundwater of 50,000 ppb. The NJDEPE groundwater standard for the phenol compound is 4,000 ppb. NJDEPE has established a residential direct contact soil cleanup objective, based on an incidental ingestion exposure pathway, of 10,000 ppb.

Based on the information presented in the preceding text, RUST E&I on behalf of IMI proposed an RSCO for phenol of 8,100 ppb.

5.0 FIELD SAMPLING AND SOIL EXCAVATION LABORATORY ANALYTICAL DATA

Environmental sampling associated with the 73128 spill investigation included the collection of a groundwater sample, two subsurface boring samples and three separate post-excavation sampling events. All samples were analyzed for volatile organics via EPA SW-846 Method 8240 and semi-volatile organics via EPA SW-846 Method 8270. A library search for non-target compounds was performed on both the volatile organic and semi-volatile organic analyses in order to evaluate the potential presence of the non-standard compounds present in the 73128 product. All analytical results are summarized in Tables 2 through 5. Complete laboratory reporting sheets are attached in Appendix B.

All samples were placed on ice and chilled to 4 degrees centigrade following collection. Samples were submitted to CTM Analytical Laboratories, Ltd. (CTM), Latham, New York, on the same day they were collected.

5.1 JUNE 1993 - GROUNDWATER AND SUBSURFACE BORING SAMPLES

The area near the spill contains monitoring wells installed by Groundwater Technology, Inc., on behalf of General Electric Co., (GE) with respect to another project. One of these wells, GT-4 is located approximately 150 feet downgradient of the May 6 spill. On June 29, 1993, Rust Environment & Infrastructure (RUST) personnel, collected a groundwater sample from monitoring well GT-4, RUST also collected two subsurface soil samples on this date. The intent of these samples was to evaluate the vertical extent of potentially contaminated soil and determine if groundwater had been impacted.

One subsurface soil sample was collected from each end of the excavation. The samples were collected using a hand auger. Samples SS-1 and SS-2 were collected at the center of the east/west and north/south oriented leg of the excavation, respectively. Sample SS-1 was collected at a depth of 13 feet and sample SS-2 was collected at a depth of 9.5 feet below the original ground surface.

Per the NYSDEC request, total organic vapor headspace over soil readings were performed at 2 foot depth intervals from each soil boring (SS-1 and SS-2) using an HNU photoionization detector. Two sets of headspace readings were performed, the first set was performed in the field. The second set was performed at the RUST office, at the request of the NYSDEC, based on a concern over potential high ambient background readings associated with the location of the excavation in close proximity to other chemical storage tanks.

A groundwater sample was collected from monitoring well GT-4, which is located approximately 150 feet downgradient of the spill area. The sample was collected using a dedicated, PVC, bottom-fill, check-valved bailer. Prior to sample collection, three well volumes of groundwater were purged from the monitoring well.

The soil boring HNU photoionization (PID) headspace data are presented in Table 1. One of the components of the 73128 product is Aromatic 100, which is a mixture of several volatile organic compounds, and represents 32 percent (by weight) of the 73128 product. The chemical constituents of Aromatic 100 (1,2,4-trimethyl benzene, xylene, cumene and ethylbenzene) are sufficiently volatile and have ionization potentials low enough such that the compounds are detectable using an HNU. Phenol is not sufficiently volatile to be detected with an HNU.

The HNU headspace analyses were used as a field screening method to evaluate the vertical distribution of potentially contaminated soil. The HNU headspace readings performed at the RUST office were an additional quality control check on the initial field measurements.

Both the on-site and off-site HNU headspace measurements revealed that with the exception of one sample, none of the subsurface soil boring samples exhibited total volatile organic readings that were significantly elevated with respect to the ambient background concentration. Sample SS-2 at 2' exhibited an HNU reading that was elevated with respect to background in both the on-site and off-site measurements. The off-site measurement is higher due to the increase time available for volatilization from the soil and development of an equilibrium between the soil and the sample headspace. The HNU headspace data indicates that with the exception of the SS-2, 2' sample, the subsurface soil has not been significantly impacted by the volatile organic fraction of the 73128 product.

The June 1993 subsurface boring samples were collected in order to define the vertical extent of impacted soil, if any. Analytical results presented in Table 2 indicate that with the exception of phenol, and 2,4,6-trimethylphenol and an isocyanate compound which were detected at low estimated concentrations in the semi-volatile analysis library search, no other 73128 related compound was detected in the subsurface soil samples.

The di-n-butyl phthalate detected in both samples is laboratory derived and not site related. Di-n-butyl phthalate is a common laboratory contaminant. This compound was detected in the laboratory method blank associated with the SS-1 and SS-2 subsurface boring samples. The soil boring di-n-butyl phthalate concentrations were less than ten times the value reported in the laboratory method blank. USEPA data validation guidelines state that sample results for the common laboratory contaminants, less than ten times the blank value should be disregarded. Data indicate that the reported di-n-butylphthalate was not actually present in the subsurface boring samples.

The subsurface soil analytical data revealed that, with the exception of phenol and isocyanate resin related compounds in both the SS-1, 13' and the SS-2, 9.5' subsurface soil samples and 2,4,6-trimethylphenol in the SS-1, 13' sample, no other 73128 product related chemical compounds were detected.

Table 1
Soil HNU Photolization Measurements
Insulating Materials, Inc.
Schenectady, New York
June 29, 1993

On-Site (Values are PPM)

IMI	Depth	Background	Peak	Sustained
SS-1	2'	0.4	0.0	0.0
SS-1	4'	0.4	0.0	0.0
SS-1	6'	0.4	0.0	0.0
SS-1	8'	0.4	0.0	0.0
SS-1	10'	0.4	0.0	0.0
SS-2	2'	0.2	8.0	3.0
SS-2	4'	0.2	1.0	0.5
SS-2	6'	0.4	0.8	0.0
SS-2	8'	0.2	0.0	0.0

Off-Site

IMI	Depth	Background	Peak	Sustained
SS-1	2'	0.2	0.0	0.0
SS-1	4'	0.2	0.8	0.0
SS-1	6'	0.2	0.0	0.0
SS-1	8'	0.2	0.0	0.0
SS-2	2'	0.2	20.0	2.0
SS-2	4'	0.0	0.0	0.0
SS-2	6'	0.2	3.0	0.6
SS-2	8'	0.2	0.6	0.0

mhh\IMIEGF1.xls

Table 2
Summary Subsurface Soil Analytical Results
Insulating Materials, Inc.
Schenectady, New York
June 29, 1993

	GT-4 June 1993	SS-1 13' East/West Leg June 1993	SS-2 9.5' North/South Leg June 1993
Volatile Organics			
Xylene (Total)	<5	<5	<5
Methylene Chloride	<5	<5	<5
Semi-Volatile Organics			
Di-n-butylphthalate	<5	460	450
Phenol	<5	2,200	1,400
2,4-Dimethylphenol	<5	<170	<190
All results expressed in ppb (ug/kg soils, ug/L GT-4 groundwater)			
Note: Library search data attached with laboratory data.			
mhh\imlegf2.xls			

The isocyanate resin related compounds and the 2,4,6-trimethylphenol are tentatively identified compounds based on a National Bureau of Standards library search of unidentified (non-target) compounds detected in the subsurface samples. The instrument was not directly calibrated for the detection and quantification of these compounds; therefore, the reported concentrations are estimated. There are no NYSDEC recommended soil cleanup objectives (RSCO) for these compounds.

The isocyanate compounds (TDI) detected in the soil samples are constituents of the blocked isocyanate resins component of the 73128 product. The blocked isocyanate resin is insoluble in water and does not represent a threat to groundwater.

Groundwater analytical data from monitoring well GT-4 reveal that no volatile organic or semi-volatile organic compounds were detected in the sample. GT-4 is located approximately 150 feet north of the 73128 spill. Groundwater in this area moves from the location of the spill towards monitoring well GT-4. The GT-4 analytical data indicates that the IMI May 6, 1993 spill of the 73128 product has not impacted groundwater. Data also indicate that the tanks in this area most likely have not been leaking over time.

5.2 AUGUST 1993 - POST-EXCAVATION SAMPLES

On August 24 and 25, 1993, IMI directed West Central Environmental to excavate an additional 23 drums of soil from the spill area. Excavation activities were observed by Rust personnel. Approximately, one to two feet of additional soil was removed from the excavation, following which HNU photoionization measurements were performed. Based on the HNU readings, approximately one foot of additional soil was excavated from the North/South orientated leg of the excavation, following which, post-excavation samples were collected from both legs of the "L" shaped excavation. Sample SS-1, 5' was collected from the north/south leg and SS-2, 4' from the east/west leg of the excavation.

The post-excavation samples were collected and submitted for volatile organic (SW-8240) and Semi-volatile organic (SW-846) analyses. The semi-volatile organic samples from each leg, consisted of four individual grab samples composited in the field into a single composite sample from each leg of the excavation. The volatile organic samples consisted of a single grab sample, one from each leg of the excavation.

The post-excavation samples were collected and submitted for volatile organic (SW-846 Method 8240) and semi-volatile organic (SW-846 Method 8270) analyses. The semi-volatile organic samples from each leg, consisted of four individual grab samples composited in the field into a single composite sample from each leg of the excavation. The volatile organic samples consisted of a single grab sample, one from each leg of the excavation. Laboratory reporting sheets are presented in Appendix C.

The analytical data from the two post-excavation samples collected in August 1993 are summarized in Table 3. Data reveal that with the exception of xylene and methylene chloride, no SW-846 Method 8240 volatile organic target compounds were detected in either the SS-1, 5' or the SS-2, 4' samples. Data indicate that with respect to known 73128 volatile organic constituents that the 73128 spill has been adequately remediated.

The methylene chloride detected in the SS-2, 4' sample is laboratory derived and not related to the 73128 spill. Methylene chloride is a common laboratory contaminant and methylene chloride is not a constituent of the 73128 product. The xylene reported in the SS-1 sample was detected at a concentration well below the NYSDEC RSCO of 1,200 ug/kg. One volatile organic compound, cumene or isopropyl benzene, a constituent of the 73128 product, was detected in the SS-1, 5' volatile organic library search at a low estimated concentration of 230 ug/kg. Several other unknown or tentatively identified volatile compounds were reported as present in the SS-1 sample. However, the estimated concentrations reported for these compounds were generally low. The SS-1, 5' and SS-2, 4' post-excavation soil samples indicate that there is no longer a significant source of volatile organic compounds. Data indicate that with respect to volatile organics, the 73128 spill has been sufficiently remediated.

Semi-volatile organic analytical data reveal that phenol was detected in both the SS-1, 5' and SS-2, 4' samples and that di-n-butylphthalate and 2,4-dimethylphenol were detected in the SS-2, 4' sample. The di-n-butylphthalate reported in the SS-2, 4' sample is laboratory derived and not related to the 73128 spill. Di-n-butylphthalate is a common laboratory contaminant and it was detected in the laboratory method blank at a concentration equivalent to the reported sample value. Additionally, this compound is not a constituent of the 73128 product.

The phenol detected in the SS-1, 5' and the SS-2, 4' samples were both higher than 8,100 ug/kg. Data indicate that additional excavation is necessary in both legs of the excavation. Results of post-excavation samples collected on October 19 and 20, 1993, following removal of additional soil from the spill area, are discussed in the following text.

5.3 OCTOBER 1993 - POST-EXCAVATION SAMPLES

Based on the high phenol concentrations detected in the August 1993 post-excavation samples, additional soil was removed from the spill area excavation. Post-excavation samples from each leg of the excavation were collected by RUST personnel on October 19 and 20, 1993. The post-excavation semi-volatile organic samples consisted of four separate grab samples from the floor of each leg of the excavation. The semi-volatile organic grab samples were composited in the field into a single composite sample; one from each leg of the excavation. The post-excavation volatile organic samples consisted of a single grab sample from each leg of the excavation. Analytical data are summarized in Table 4, laboratory reporting sheets are presented in Appendix D.

As previously noted, methylene chloride and di-n-butyl phthalate are common laboratory contaminants. Both of these compounds were detected in the samples at concentrations less than 10 times the value detected in the laboratory method blank. Therefore, consistent with USEPA

Table 3
Post Excavation Samples
Insulating Materials, Inc.
Schenectady, New York
August 24 & 25, 1993

	SS-1, 5' North/South Leg August 1993	SS-2, 4' East/West Leg August 1993
Volatile Organics		
Xylene (Total)	730.0	<5
Methylene Chloride	<28	14
Semi-Volatile Organics		
Di-n-butylphthalate	<180	2,800
Phenol	32,000	62,000
2,4-Dimethylphenol	<180	4,300
All results expressed in ug/kg		
Note: Library search data attached with laboratory data.		
mhh\miegt3.xls		

Table 4
Post Excavation Samples
Insulating Materials, Inc.
Schenectady, New York
October 19 & 20, 1993

	SS-1 North/South Leg	SS-2 East/West Leg
Volatile Organics		
Methylene Chloride	6	<6
Semi-Volatile Organics		
Di-n-butylphthalate	470	290
Bis-(2-ethylhexyl) phthalate	220	<180
Phenol	16,000	<180
2,4-Dichlorophenol	1,100	<180
All values expressed in ug/kg		
mhh\imieg4.xls		

data validation guidelines, the reported concentrations are considered laboratory derived and not site related. Bis-(2-ethylhexyl) phthalate is also a common laboratory contaminant. Although this compound was not detected in the associated laboratory method blank, the detection of this compound in the SS-1 sample is most likely laboratory derived and not site related.

Phenol was detected in the composite sample from the north/south leg of the excavation at a concentration of 16,000 ug/kg which is above the IMI cleanup objective of 8,100 ug/kg. The compound 2,4-dichlorophenol was also detected in this sample at a concentration of 1,100 ug/kg.

The October analytical data revealed that the vertical extent of impacted soil in the east/west leg of the excavation had been defined and adequately remediated. However, data indicated that removal of additional material in the north/south leg of the excavation was required.

5.4 DECEMBER 1993 - POST-EXCAVATION SAMPLES

Based on the results of the October 1993 post-excavation samples, additional soil was removed from the north/south leg of the excavation, followed by the collection of post-excavation samples. Post-excavation samples were collected from the floor of the north/south leg of the excavation, the south and west wall of the north/south excavation area, and the north and east walls of the east/west excavation area. The east wall of the north/south excavation area and the south wall of the east/west excavation area consist of the tank and associated footings and therefore post-excavation samples were not collected from these two areas. Approximate locations of the December 1993 post-excavation samples are detailed in Figure 1.

The north/south orientated leg of the excavation is approximately twenty-two feet long, varies in width from four to seven feet and varies in depth from six to nine feet. The east/west orientated leg of the excavation is approximately twenty feet long, varies in width from four to six feet wide and in depth from four to six feet.

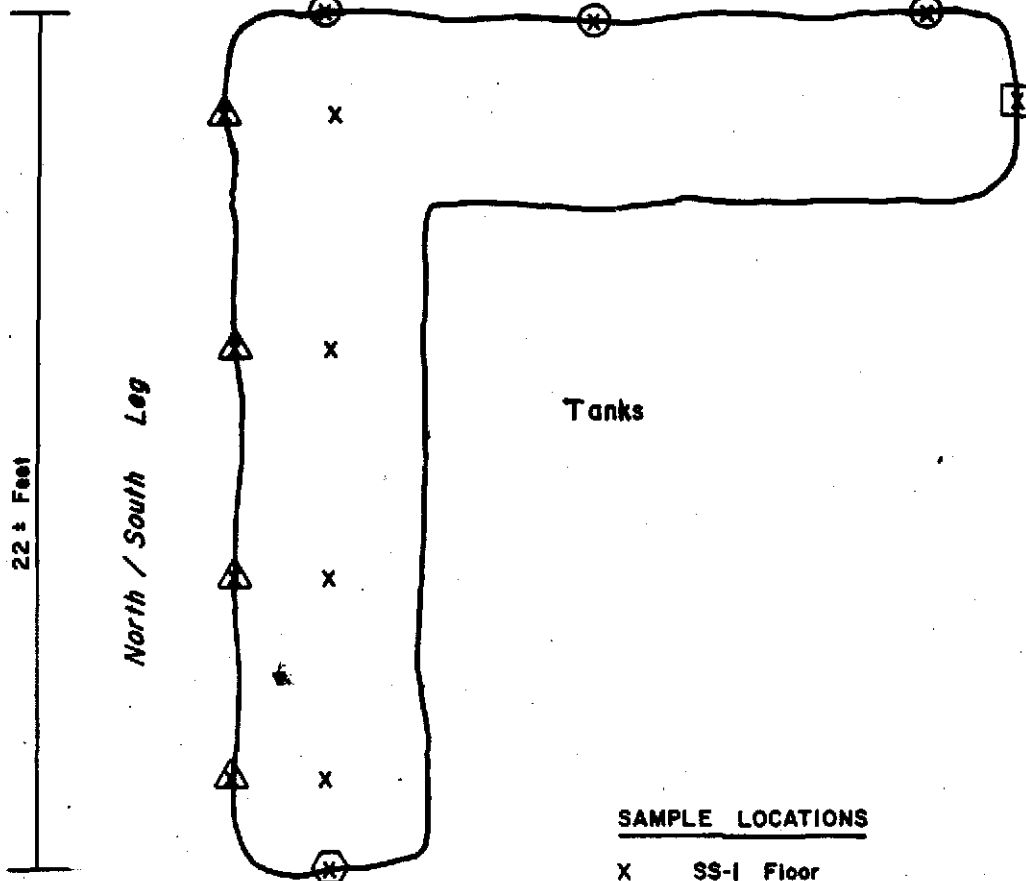
The semi-volatile and volatile organic samples from the floor and west wall of the north/south leg of the excavation and the north wall of the east/west leg of the excavation consisted of three to four individual grab samples. The semi-volatile organic grab samples were thoroughly composited in the field into a single composite sample, one from each area. The volatile organic grab samples were composited by the laboratory, by taking equal volumes of soil, from each of the individual grab sample containers. Ultimately, one composite semi-volatile and one composite volatile organic sample were analyzed from each area sampled, i.e., the north/south floor, the north/south west wall and the east/west north wall.

Due to the small areal extent of the excavation walls, the samples collected from the south wall of the north/south excavation and the east wall of the east/west excavation consisted of a single grab sample for volatile organics and a single grab sample for semi-volatile organics from each wall.



20 ± Feet

East / West Leg



SAMPLE LOCATIONS

- X SS-1 Floor
- △ SS-1 West Wall
- ⊗ SS-2 North Wall
- ⊞ SS-1 South Wall
- ⊠ SS-2 East Wall

RUST ENVIRONMENT &
INFRASTRUCTURE

IMI

DECEMBER 1993

POST EXCAVATION SAMPLE LOCATIONS

PROJECT No. 35373.400

DATE 2/94

SCALE Not To Scale

FIGURE No. 1

All samples were submitted to CTM Laboratories for volatile organic analysis via EPA SW-846 Method 8240 and semi-volatile organic analysis via EPA SW-846 Method 8270. A library search for non-target compounds was performed for all analyses. Analytical results are summarized in Table 5. Laboratory reporting sheets are presented in Appendix E.

The methylene chloride detected in sample SS-1 west wall; the acetone detected in sample SS-1 south wall; and the bis-(2-ethyl hexyl) phthalate reported in samples SS-1 floor, SS-1 west wall, SS-1 south wall, and SS-2 east wall are laboratory derived and not site related. These compounds were detected in the samples at concentrations less than ten times the associated laboratory method blank values. Bis-(2-ethyl hexyl) phthalate was detected in the SS-2 east wall sample at a concentration of 210 ug/kg. Bis-(2-ethyl hexyl) phthalate is a common laboratory contaminant, although it was not detected in the associated laboratory method blank, the sample value was only slightly above the laboratory reporting limit of 190 ug/kg. Considering that this compound is not a constituent of the 73128 product, and the random nature of laboratory contamination, the bis-(2-ethyl hexyl) phthalate is not considered site related.

With the exception of a low concentration of phenol in the SS-1, west wall sample, no 73128 product related compounds were detected in any of the post-excavation samples. The SS-1 west wall phenol concentration of 330 ug/kg is well below the 8,100 ug/kg soil cleanup level proposed by IML.

Table 5

Post Excavation Samples
 Insulating Materials, Inc.
 Schenectady, New York
 December 28 & 29, 1993

Parameter	SS-1, Floor North/South Leg	SS-1, West Wall North/South Leg	SS-1, South Wall North/South Leg	SS-2, North Wall East/West Leg	SS-2, East Wall East/West Leg
Volatile Organics					
Methylene Chloride	<5	7	<6	<6	<6
Acetone	<11	<11	15	<1	<11
Semi-Volatile Organics					
Di-n-butylphthalate	240	220	230	<190	210
Bis-(2-ethylhexyl) phthalate	<180	<180	<190	310	<190
Phenol	<1,800	330	<190	<190	<190

mht/mieg15.xls

6.0 CONCLUSIONS

The December 1993, post-excavation samples indicate that the 73128 spill has been adequately remediated. IMI will backfill the excavation with clean fill following NYSDEC review and approval of this report.

mhh
imiremed.doc
February 22, 1994

Appendix A

TCLP Composite Sample Analytical Results

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

Laboratory Analysis Report
Prepared for: INSULATING MATERIALS
Project Number: 93.04011
Task Number: 930507J
12 MAY 1993

IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (0-5 peaks).
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.

CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

PA: 68-402

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

INSULATING MATERIALS
1 CAMPBELL ROAD
SCHENECTADY NY 12306

Attention: MR. AL DRAKE

Purchase Order Number: 93024
Date Sampled: 05/07/93 Time: 1:00 PM
Sampled By: DRAKE
Sample Id: 73128-SOIL
Location: INSULATING MATERIALS

Parameters and Standard Methodology Used

DIMETHYL ADIPATE (TCLP)	EPA METHOD 8270 BASE NEUTRALS
O-CRESOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION
P-CRESOL (TCLP)	SW-846 METHOD 8270
2,4-DIMETHYLPHENOL (TCLP)	SW-846 METHOD 8270 ACID FRACTION
PHENOL (TCLP)	SW-846 METHOD 8270
TCLP EXTRACTION	SW-846 METHOD 1311
ZERO HEADSPACE EXTRACTION	SW-846 METHOD 1311
EXTRACTION FOR TCLP B/N	SW-846 METHOD 8270
SW-846 8270 BASE/NEUTRALS	
M-XYLENE (TCLP)	SW-846 METHOD 8240
P-XYLENE (TCLP)	SW-846 METHOD 8240
O-XYLENE (TCLP)	SW-846 METHOD 8240
CUMENE (TCLP)	SW-846 METHOD 8240
ETHYLBENZENE (TCLP)	SW-846 METHOD 8240
1,2,4-TRIMETHYLBENZENE (TCLP)	SW-846 METHOD 8240
DIMETHYL GLUTARATE (TCLP)	EPA METHOD 8270 BASE NEUTRALS
DIMETHYL SUCCINATE (TCLP)	EPA METHOD 8270 BASE NEUTRALS
2,4,6-TRIMETHYLPHENOL (TCLP)	EPA METHOD 8270 ACID EXTRACTABLES



GC/MS
GC
ICAP
Sampling Services

CTM PROJECT #: 93.04011

CTM Task #: 930507J

CTM Sample No: 930507J 01
Date Received: 05/07/93
Collection Method: GRAB
Matrix: SOIL

Results	PQL	Unit	Analyst Reference
ND		MCG/L	JB1:35 5/10/93
ND	10	MCG/L	JB1:35 5/10/93
160	10	MCG/L	JB1:35 5/10/93
80	10	MCG/L	JB1:35 5/10/93
18,000	10	MCG/L	JB1:35 5/11/93
COMPLETED			D13:66 5/7
COMPLETED			DO 5/7
EXTRACTED			JF 5/10
COMPLETE			5/11/93
ND	10	MCG/L	MCF:115 5/10/93
ND	10	MCG/L	MCF:115 5/10/93
80	10	MCG/L	MCF:115 5/10/93
100	*	MCG/L	MCF:115 5/10/93
ND	10	MCG/L	MCF:115 5/10/93
380	*	MCG/L	MCF:115 5/10/93
5	*	MCG/L	JB1:35 5/10/93
ND	*	MCG/L	JB1:35 5/10/93
6	*	MCG/L	JB 1:35 5/10/93

REMARKS: *These compounds were determined by a library search. The concentrations should be considered estimated. PQLs do not apply.

AUTHORIZED FOR RELEASE:

Peter B. Butryn

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

Appendix B

**June 1993 - Subsurface Boring Samples and
GT-4 Groundwater Analytical Data**

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 11:45
Sampled By : SLATER, MCDERMOTT
Sample Id: SS-1, 13
Location : IMI, SCHENECTADY

CTM Sample No: 930629F 01
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

% SOLIDS	CLP SOW 4/89
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240
1,2-DICHLOROETHANE	SW-846 METHOD 8240
TRICHLOROETHENE	SW-846 METHOD 8240
1,2-DICHLOROPROPANE	SW-846 METHOD 8240
BROMODICHLOROMETHANE	SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
TOLUENE	SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240
TETRACHLOROETHENE	SW-846 METHOD 8240
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240
CHLOROBENZENE	SW-846 METHOD 8240
ETHYLBENZENE	SW-846 METHOD 8240
BROMOFORM	SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240
STYRENE	SW-846 METHOD 8240
ACETONE	SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
94.0		%	7/1/93
COMPLETED			6/30
COMPLETED			6/30
ND	11	MCG/KG	MC G:40 6/30
ND	11	MCG/KG	MC G:40 6/30
ND	11	MCG/KG	MC G:40 6/30
ND	11	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	5	MCG/KG	MC G:40 6/30
ND	11	MCG/KG	MC G:40 6/30

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 11:45
Sampled By : SLATER, MCDERMOTT
Sample Id: SS-1
Location : IM1, SCHENECTADY

CTM Sample No: 930629F 01
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
CARBON DISULFIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MC G:40 6/30
VINYL ACETATE	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/30
2-HEXANONE	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/30
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/KG	MC G:40 6/30
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/30
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/30
SW-846 8270 BASE/NEUTRALS		COMPLETED			6/30/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 6/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 3

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 11:45
Sampled By : SLATER, MCDERMOTT
Sample Id: SS-1
Location : IM1, SCHENECTADY

CTM Sample No: 930629F 01
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	460	170	MCG/KG	GCMS D:53 6/30/93
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	340	MCG/KG	GCMS D:53 6/30/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	850	MCG/KG	GCMS D:53 6/30/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	850	MCG/KG	GCMS D:53 6/30/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMS D:53 6/30/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	850	MCG/KG	GCMS D:53 6/30/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			6/30/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 6/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	2,200	170	MCG/KG	GCMS D: 53 6/30

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 4

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

Attention: MR. ED FAHRENKOPF

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 11:45
Sampled By : SLATER, MCDERMOTT
Sample Id: SS-1
Location : IMI, SCHENECTADY

CTM PROJECT #: 93.04019

CTM Task #: 930629F

CTM Sample No: 930629F 01
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	340	MCG/KG	GCMS D: 53 6/30
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	850	MCG/KG	GCMS D: 53 6/30
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	850	MCG/KG	GCMS D: 53 6/30
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	850	MCG/KG	GCMS D: 53 6/30
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	850	MCG/KG	GCMS D: 53 6/30
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	170	MCG/KG	GCMS D: 53 6/30

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT:

Dunn Corp.

Library Search

OTN PROJECT #: 93.04019
OTN Task #: 629F

Date Sampled

Sampled By:

Customer Id:

SS-113

CTX Sample No: 629F01

Date Received: 6-29-93

Date Run: 6-30-93

Matrix: Soil

[illegible]

CLIENT:

Library Search

CEM PROJECT # 93.04019

Dunn Corp.

CTM Task #: 930629F

Date Sampled

Sampled By:

Customer Id:

CTM Sample No: 930629F-01

Date Received: 6-29-93

Date Run: 7-1-93

Matrix:	Soil
---------	------

[illegible]

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 9



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:45
Sampled By : SLATER/MCDERMOTT
Sample Id: SS-2, 95
Location : IM1, SCHENECTADY

CTM Sample No: 930629F 03
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

% SOLIDS	CLP SOW 4/89
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240
1,2-DICHLOROETHANE	SW-846 METHOD 8240
TRICHLOROETHENE	SW-846 METHOD 8240
1,2-DICHLOROPROPANE	SW-846 METHOD 8240
BROMODICHLOROMETHANE	SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
TOLUENE	SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240
TETRACHLOROETHENE	SW-846 METHOD 8240
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240
CHLOROBENZENE	SW-846 METHOD 8240
ETHYLBENZENE	SW-846 METHOD 8240
BROMOFORM	SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240
STYRENE	SW-846 METHOD 8240
ACETONE	SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
91.6		%	7/1/93
COMPLETED			6/29
COMPLETED			6/29
ND	11	MCG/KG	MC G:40 6/29
ND	11	MCG/KG	MC G:40 6/29
ND	11	MCG/KG	MC G:40 6/29
ND	11	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	5	MCG/KG	MC G:40 6/29
ND	11	MCG/KG	MC G:40 6/29

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 10

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:45
Sampled By: SLATER/MCDERMOTT
Sample Id: SS-2
Location: IMI, SCHENECTADY

CTM Sample No: 930629F 03
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	POL	Unit	Analyst Reference
CARBON DISULFIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MC G:40 6/29
VINYL ACETATE	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/29
2-HEXANONE	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/29
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/KG	MC G:40 6/29
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/29
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	11	MCG/KG	MC G:40 6/29
SW-846 8270 BASE/NEUTRALS		COMPLETED			GCMSD:54 7/1/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 6/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 11

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:45
Sampled By: SLATER/MCDERMOTT
Sample Id: SS-2
Location: IM1, SCHENECTADY

CTM Sample No: 930629F 03
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	450	190	MCG/KG	GCMSD:53 6/30/93
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	370	MCG/KG	GCMSD:53 6/30/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	930	MCG/KG	GCMSD:53 6/30/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	930	MCG/KG	GCMSD:53 6/30/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSD:53 6/30/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	930	MCG/KG	GCMSD:53 6/30/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			GCMSD:54 7/1/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 6/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	1,400	190	MCG/KG	GCMSD:53 6/30/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 12

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM-PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:45
Sampled By : SLATER/MCDERMOTT
Sample Id: SS-2
Location : INI, SCHENECTADY

CTM Sample No: 930629F 03
Date Received: 06/29/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	370	MCG/KG	GCMSD:53 6/30/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	930	MCG/KG	GCMSD:53 6/30/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	930	MCG/KG	GCMSD:53 6/30/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	930	MCG/KG	GCMSD:53 6/30/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	930	MCG/KG	GCMSD:53 6/30/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMSD:53 6/30/93

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT:

Library Search

CTM PROJECT #1

93.04019

CTM Task 4:

629F

Dunn Corp.

Date Sampled

sampled by:

Customer Id:

SS-2

CTN Sample No:

629F-03

Date Received:

6/29/93

Date: 2018.08.01

6729793

Matrizen:

Soil

[illegible]

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

CLIENT:

Library Search

OTM PROJECT #: 93.04019
OTM Task #: 930629F

Dunn Corp.

Date Sampled
sampled By:
Customer Id:

CTM Sample No: 930629F-03
Date Received: 6/29/93
Date Run: 7/1/93
Matrix: Soil

[illegible]

CTM Analytical Laboratories, Ltd.

PAGE 5

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:00PM
Sampled By : SLATER/MCDERMOTT
Sample Id: GT-4
Location : IMI, SCHENECTADY

CTM Sample No: 930629F 02
Date Received: 06/29/93
Collection Method: GRAB
Matrix: GW

Parameters and Standard Methodology Used

SW-846 8240 VOLATILES
PURGE & TRAP EXTRACTION SW-846 METHOD 5030
CHLOROMETHANE SW-846 METHOD 8240
VINYL CHLORIDE SW-846 METHOD 8240
BROMOMETHANE SW-846 METHOD 8240
CHLOROETHANE SW-846 METHOD 8240
1,1-DICHLOROETHANE SW-846 METHOD 8240
METHYLENE CHLORIDE SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE SW-846 METHOD 8240
1,1-DICHLOROETHENE SW-846 METHOD 8240
CHLOROFORM SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE SW-846 METHOD 8240
CARBON TETRACHLORIDE SW-846 METHOD 8240
BENZENE SW-846 METHOD 8240
1,2-DICHLOROETHANE SW-846 METHOD 8240
TRICHLOROETHENE SW-846 METHOD 8240
1,2-DICHLOROPROPANE SW-846 METHOD 8240
BROMODICHLOROMETHANE SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
TOLUENE SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE SW-846 METHOD 8240
TETRACHLOROETHENE SW-846 METHOD 8240
DIBROMOCHLOROMETHANE SW-846 METHOD 8240
CHLOROBENZENE SW-846 METHOD 8240
ETHYLBENZENE SW-846 METHOD 8240
BROMOFORM SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE SW-846 METHOD 8240
STYRENE SW-846 METHOD 8240
ACETONE SW-846 METHOD 8240
CARBON DISULFIDE SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
COMPLETED			6/29
COMPLETED			6/29
ND	10	MCG/L	MC G:40 6/29
ND	10	MCG/L	MC G:40 6/29
ND	10	MCG/L	MC G:40 6/29
ND	10	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29
ND	10	MCG/L	MC G:40 6/29
ND	5	MCG/L	MC G:40 6/29

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 6

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:00PM
Sampled By : SLATER/MCDERMOTT
Sample Id: GT-4
Location : IMI, SCHENECTADY

CTM Sample No: 930629F 02
Date Received: 06/29/93
Collection Method: GRAB
Matrix: GW

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/L	MC G:40 6/29
2-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/L	MC G:40 6/29
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/L	MC G:40 6/29
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MCG/L	MC G:40 6/29
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCG/L	MC G:40 6/29
SW-846 8270 BASE/NEUTRALS		COMPLETED			6/30/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 6/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 7

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:00PM
Sampled By: SLATER/MCDERMOTT
Sample Id: GT-4
Location: IMI, SCHENECTADY

CTM Sample No: 930629F 02
Date Received: 06/29/93
Collection Method: GRAB
Matrix: GW

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

N-NITROSDIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	10	MCG/L	GCMS D:54 7/1/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	25	MCG/L	GCMSD:54 7/1/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	25	MCG/L	GCMSD:54 7/1/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	5	MCG/L	GCMS D:54 7/1/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	25	MCG/L	GCMSD:54 7/1/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			6/30/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 6/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 8

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930629F

Purchase Order Number: 236013
Date Sampled: 06/29/93 Time: 12:00PM
Sampled By: SLATER/MCDERMOTT
Sample Id: GT-4
Location: IMI, SCHENECTADY

CTM Sample No: 930629F 02
Date Received: 06/29/93
Collection Method: GRAB
Matrix: GW

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	10	MCG/L	GCMS D:54 7/1/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMS D:54 7/1/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMS D:54 7/1/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMS D:54 7/1/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	25	MCG/L	GCMS D:54 7/1/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	5	MCG/L	GCMS D:54 7/1/93

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: ,

Library Search

OTM PROJECT #:
OTM Task #:

93.04019
6298

Dunn Corp.

Date Sampled
Sampled By:
Customer Id:

GT-4

CTM Sample No: 629F-02
Date Received: 6/29/93
Date Run: 6/29/93
Matrix: Water

629F-02
6/29/93
6/29/93
Water

[illegible]

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

CLIENT: .

Library Search

CEN PROJECT #:

93.04019

CTM Tank #1

930629T

Dunn Corp.

CTX Sample No:

930629F-02

Date Received:

6/29/93

Date Run:

771793

Notes:

Water

Date Sampled

Sampled By:

Customer Id:

GI-4

[illegible]

Appendix C

August 1993 - Post-Excavation Sample Analytical Results

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825R

Purchase Order Number: 236023
Date Sampled: 08/25/93 Time: 9:30 AM
Sampled By : SLATER
Sample Id: SS-1
Location : SCHENECTADY

CTM Sample No: 930825R 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

% SOLIDS	CLP SOW 4/89
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240
1,2-DICHLOROETHANE	SW-846 METHOD 8240
TRICHLOROETHENE	SW-846 METHOD 8240
1,2-DICHLOROPROPANE	SW-846 METHOD 8240
BROMODICHLOROMETHANE	SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
TOLUENE	SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240
TETRACHLOROETHENE	SW-846 METHOD 8240
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240
CHLOROBENZENE	SW-846 METHOD 8240
ETHYLBENZENE	SW-846 METHOD 8240
BROMOFORM	SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240
STYRENE	SW-846 METHOD 8240
ACETONE	SW-846 METHOD 8240

[illegible]

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825R

Purchase Order Number: 236023
Date Sampled: 08/25/93 Time: 9:30 AM
Sampled By: SLATER
Sample Id: SS-1
Location: SCHENECTADY

CTM Sample No: 930825R 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

CARBON DISULFIDE	SW-846 METHOD 8240	ND	28	MCG/KG	MCG:90 8/30
VINYL ACETATE	SW-846 METHOD 8240	ND	55	MCG/KG	MCG:90 8/30
2-HEXANONE	SW-846 METHOD 8240	ND	55	MCG/KG	MCG:90 8/30
XYLENE (TOTAL)	SW-846 METHOD 8240	730	28	MCG/KG	MCG:90 8/30
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	55	MCG/KG	MCG:90 8/30
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	55	MCG/KG	MCG:90 8/31
SW-846 8270 BASE/NEUTRALS		COMPLETED			9/9/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			JF 9/1
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 3

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825R

Purchase Order Number: 236023
Date Sampled: 08/25/93 Time: 9:30 AM
Sampled By : SLATER
Sample Id: SS-1
Location : SCHENECTADY

CTM Sample No: 930825R 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMSD:72 9/9/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
INDENO-(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:72 9/9/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			9/9/93
ACID EXTRACTION SW 846 3500		COMPLETED			JF 9/1
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	32,000	19,000	MCG/KG	GCMS 0:23 9/9

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 4

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825R

Purchase Order Number: 236023
Date Sampled: 08/25/93 Time: 9:30 AM
Sampled By : SLATER
Sample Id: SS-1
Location : SCHENECTADY

CTM Sample No: 930825R 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	350	MCG/KG	GCMSD:72 9/9/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	880	MCG/KG	GCMSD:72 9/9/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	880	MCG/KG	GCMSD:72 9/9/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	880	MCG/KG	GCMSD:72 9/9/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	880	MCG/KG	GCMSD:72 9/9/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:72 9/9/93
1,2,4-TRIMETHYLBENZENE	SW-846 METHOD 8240	ND	28	MCG/KG	MCG:90 8/30

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: RUST

CTM PROJECT #: 93.04019
CTM TASK #: 930825R
CTM SAMPLE NO.: 930825R01
DATE RECEIVED: 8-25-93
DATE RUN: 8-30-93
MATRIX: Soil

DATE SAMPLED: 8-25-93
SAMPLED BY: K. Slater
CUSTOMER ID: SS-1

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	18.27	1-methylethyl benzene	98828	230	mcg/kg
2	18.95	propyl benzene	103651	990	mcg/kg
3	19.14	unknown substituted aromatic		5500	mcg/kg
4	19.64	unknown substituted aromatic		1700	mcg/kg
5	19.96	unknown substituted aromatic		4100	mcg/kg
6	20.51	methyl(1-methylethyl) benzene	25155151	72	mcg/kg
7	20.74	1-ethyl-4-methyl benzene	622968	1500	mcg/kg
8	21.11	unknown substituted aromatic		660	mcg/kg
9	21.27	1-methyl-4-(1-methylethyl) benzene	99876	340	mcg/kg
10	21.62	(1-methyl propyl)-benzene	135988	28	mcg/kg
11	21.82	unknown substituted aromatic		180	mcg/kg
12	22.01	unknown substituted aromatic		190	mcg/kg
13	22.99	1,2,4,5-tetramethyl benzene	95932	100	mcg/kg

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

CLIENT: RUST

DATE SAMPLED: 8-25-93

SAMPLED BY: K. Slater

CUSTOMER ID: SS-1

CTM PROJECT #: 93.04019

CTM TASK #: 930825R

CTM SAMPLE NO.: 930825R01

DATE RECEIVED: 8-25-93

DATE RUN: 9-9-93

MATRIX: Soil

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	7.54	unknown		230	mcg/kg
2	7.67	unknown		49	mcg/kg
3	10.56	isomer of trimethyl benzene		44	mcg/kg

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 1



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825K

Purchase Order Number: 236023
Date Sampled: 08/24/93 Time: 3:00 PM
Sampled By : SLATER
Sample Id: SS-2
Location : SCHENECTADY

CTM Sample No: 930825K 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

% SOLIDS	CLP SOW 4/89
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240
1,2-DICHLOROETHANE	SW-846 METHOD 8240
TRICHLOROETHENE	SW-846 METHOD 8240
1,2-DICHLOROPROPANE	SW-846 METHOD 8240
BROMODICHLOROMETHANE	SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
TOLUENE	SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240
TETRACHLOROETHENE	SW-846 METHOD 8240
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240
CHLOROBENZENE	SW-846 METHOD 8240
ETHYLBENZENE	SW-846 METHOD 8240
BROMOFORM	SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240
STYRENE	SW-846 METHOD 8240
ACETONE	SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
93		%	SP 9/7
COMPLETE			MCG:90 8/31
COMPLETE			MCG:90 8/31
ND	11	MCG/KG	MCG:90 8/31
ND	11	MCG/KG	MCG:90 8/31
ND	11	MCG/KG	MCG:90 8/31
ND	11	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
14	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	5	MCG/KG	MCG:90 8/31
ND	11	MCG/KG	MCG:90 8/31

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825K

Purchase Order Number: 236023
Date Sampled: 08/24/93 Time: 3:00 PM
Sampled By : SLATER
Sample Id: SS-2
Location : SCHENECTADY

CTM Sample No: 930825K 01
Date Received: 08/25/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

<u>Results</u>	<u>PQL</u>	<u>Unit</u>	<u>Analyst Reference</u>
----------------	------------	-------------	--------------------------

(CONTINUED FROM PREVIOUS PAGE)

CARBON DISULFIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:90 8/31
VINYL ACETATE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:90 8/31
2-HEXANONE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:90 8/31
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:90 8/31
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:90 8/31
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:90 8/31
1,2,4-TRIMETHYLBENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:90 8/31

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

CTM PROJECT #: 93.04019
CTM TASK #: 930825K
CTM SAMPLE NO.: 930825K-01
DATE RECEIVED: 8/25/93
DATE RUN: 8/31/93
MATRIX: Soil

DATE SAMPLED: 8-24-93
SAMPLED BY: Slater
CUSTOMER ID: SS-2

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	7.52	1,1,2-trichloro-1,2,2-trifluoro- ethane (lab artifact)	76131	12	mcg/kg
2	18.86	column bleed		39	mcg/kg
3	22.68	column bleed		14	mcg/kg

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 3



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825K

Purchase Order Number: 236023
Date Sampled: 08/24/93 Time: 3:00 PM
Sampled By : SLATER
Sample Id: SS-2
Location : SCHENECTADY

CTM Sample No: 930825K 02
Date Received: 08/25/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

% SOLIDS	CLP SOW 4/89
SW-846 8270 BASE/NEUTRALS	
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS

Results	PQL	Unit	Analyst Reference
93		%	SP 9/7
COMPLETED			8/31
COMPLETED			MS 8/26
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
ND	180	MCG/KG	GCMS D:71 8/31
2,800	180	MCG/KG	GCMS D:71 8/31

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 4



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825K

Purchase Order Number: 236023
Date Sampled: 08/24/93 Time: 3:00 PM
Sampled By : SLATER
Sample Id: SS-2
Location : SCHENECTADY

CTM Sample No: 930825K 02
Date Received: 08/25/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMS D:71 8/31
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:71 8/31
SW-846 8270 ACID EXTRACTABLES		COMPLETED			8/31
ACID EXTRACTION SW 846 3500		COMPLETED			MS 8/26
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	62,000	4,500	MCG/KG	GCMS D:73 9/10
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	4,300	180	MCG/KG	GCMS D:71 8/31
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:71 8/31

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 5

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 930825K

Purchase Order Number: 236023
Date Sampled: 08/24/93 Time: 3:00 PM
Sampled By : SLATER
Sample Id: SS-2
Location : SCHENECTADY

CTM Sample No: 930825K 02
Date Received: 08/25/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

<u>Results</u>	<u>PQL</u>	<u>Unit</u>	<u>Analyst Reference</u>
----------------	------------	-------------	--------------------------

(CONTINUED FROM PREVIOUS PAGE)

4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:71 8/31
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:71 8/31

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

CLIENT: Rust

DATE SAMPLED: 8-24-93
SAMPLED BY: Slater
CUSTOMER ID: SS-2

CTM PROJECT #: 93.04019
CTM TASK #: 930825K
CTM SAMPLE NO.: 930825K-02
DATE RECEIVED: 8/25/93
DATE RUN: 8/31/93
MATRIX: Soil

PEAK #	R.T.	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
1	7.70	unknown		570	mcg/kg
2	10.68	isomer trimethyl benzene		43	mcg/kg
3	14.25	2,3,6-trimethyl phenol	002416-94-6	85	mcg/kg
4	16.37	1,3-diisocyanato-2-methyl benzene	000091-08-7	160	mcg/kg
5	16.46	2,4-diisocyanato-1-methyl benzene	000584-84-9	190	mcg/kg
6	24.18	unknown		61	mcg/kg

Appendix D

October 1993 - Post-Excavation Sample Analytical Results

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020C

Purchase Order Number: 949300225
Date Sampled: 10/19/93 Time: 11:45 AM
Sampled By: SLATER
Sample Id: SS-1 N/S
Location: INSULATING MATERIALS

CTM Sample No: 931020C 01
Date Received: 10/20/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.4		%	SP 10/25/93
SW-846 8240 VOLATILES		COMPLETED			BM 10/21/93
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			BM 10/21/93
CHLOROMETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
VINYL CHLORIDE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
BROMOMETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
CHLOROETHANE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
1,1-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
METHYLENE CHLORIDE	SW-846 METHOD 8240	(4) 6	5	MCG/KG	MCG:132 10/21/93
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,1-DICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
CHLOROFORM	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
CARBON TETRACHLORIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
BENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,2-DICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
TRICHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,2-DICHLOROPROPANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
BROMODICHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
TOLUENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
TETRACHLOROETHENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
CHLOROBENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
ETHYLBENZENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
BROMOFORM	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
STYRENE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
ACETONE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 2



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

CTM Task #: 931020C

Attention: MR. ED FAHRENKOPF

Purchase Order Number: 949300225
Date Sampled: 10/19/93 Time: 11:45 AM
Sampled By : SLATER
Sample Id: SS-1
Location : INSULATING MATERIALS

CTM Sample No: 931020C 01
Date Received: 10/20/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

<u>Results</u>	<u>PQL</u>	<u>Unit</u>	<u>Analyst Reference</u>
----------------	------------	-------------	--------------------------

(CONTINUED FROM PREVIOUS PAGE)

CARBON DISULFIDE	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
VINYL ACETATE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
2-HEXANONE	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	5	MCG/KG	MCG:132 10/21/93
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	10	MCG/KG	MCG:132 10/21/93

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

**RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF**

CTM PROJECT #:	93.04019
CTM Task #:	931020C
CTM Sample No:	931020C-01
Date Run:	10/21/93
Matrix:	SOIL

[illegible]

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020C

Purchase Order Number: 949300225
Date Sampled: 10/19/93 Time: 11:45 AM
Sampled By: SLATER
Sample Id: SS-1
Location: INSULATING MATERIALS

CTM Sample No: 931020C 02
Date Received: 10/20/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.6		%	SP 10/25/93
SW-846 8240 VOLATILES		COMPLETED			BM 10/28/93
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 10/29/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 10/26/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
N-NITROSDIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 4

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020C

Purchase Order Number: 949300225
Date Sampled: 10/19/93 Time: 11:45 AM
Sampled By: SLATER
Sample Id: SS-1
Location: INSULATING MATERIALS

CTM Sample No: 931020C 02
Date Received: 10/20/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

Results PQL Unit Analyst Reference

(CONTINUED FROM PREVIOUS PAGE)

DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 470	180	MCG/KG	GCMSB:55 10/29/93
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMSB:55 10/29/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	220	180	MCG/KG	GCMSB:55 10/29/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSB:55 10/29/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSB:55 10/29/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:55 10/29/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSB:55 10/29/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 11/8/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 10/26/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	16,000	1,800	MCG/KG	GCMSB:58 11/8/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	1,100	180	MCG/KG	GCMSB:55 10/29/93
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

CTM Analytical Laboratories, Ltd.

PAGE 5

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE

12 METRO PARK

ALBANY

NY 12205

Attention: MR. ED FAHRENKOPF

Purchase Order Number: 949300225

Date Sampled: 10/19/93 Time: 11:45 AM

Sampled By : SLATER

Sample Id: SS-1

Location : INSULATING MATERIALS

CTM PROJECT #: 93.04019

CTM Task #: 931020C

CTM Sample No: 931020C 02

Date Received: 10/20/93

Collection Method: COMPOSITE

Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSB:55 10/29/93
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSB:55 10/29/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSB:55 10/29/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSB:55 10/29/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSB:55 10/29/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSB:55 10/29/93

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931020C
CTM Sample No: 931020C-02
Date Run: 10/29/93
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1	6.31	METHYLBENZENE	108883	74	MCG/KG
2	7.88	UNKNOWN	--	1700	MCG/KG
3	8.39	UNKNOWN	--	2100	MCG/KG
4	9.79	UNKNOWN	--	640	MCG/KG
5	10	UNKNOWN	--	140	MCG/KG
6	10.61	UNKNOWN	--	100	MCG/KG
7	10.77	ISOMER METHYL-ETHYL-BENZENE	--	150	MCG/KG
8	11.34	UNKNOWN	--	200	MCG/KG
9	11.47	ISOMER TRIMETHYLBENZENE	--	370	MCG/KG
10	12.04	SUBSTITUTED BENZENE	--	200	MCG/KG
11	14	DIMETHYL ESTER PENTANEDIOIC ACID	1119400	870	MCG/KG
12	14.96	2-ETHYL-5-METHYL PHENOL	1687612	110	MCG/KG
13	15.33	ISOMER TRIMETHYL PHENOL	--	1300	MCG/KG
14	15.77	DIMETHYL ESTER HEXANEDIOIC ACID	627930	1200	MCG/KG
15	17.59	UNKNOWN	--	680	MCG/KG
16	19.35	UNKNOWN	--	150	MCG/KG
17	22.21	UNKNOWN ALKANE	--	21	MCG/KG
18	25.58	UNKNOWN	--	98	MCG/KG
19	26.11	UNKNOWN	--	1600	MCG/KG

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020F

Purchase Order Number: 949300225
Date Sampled: 10/20/93 Time: 8:55 AM
Sampled By : SLATER
Sample Id: SS-2
Location : INSULATING MATERIALS

CTM Sample No: 931020F 01
Date Received: 10/20/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

	CLP SOW 4/89
% SOLIDS	
SW-846 8240 VOLATILES	
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030
CHLOROMETHANE	SW-846 METHOD 8240
VINYL CHLORIDE	SW-846 METHOD 8240
BROMOMETHANE	SW-846 METHOD 8240
CHLOROETHANE	SW-846 METHOD 8240
1,1-DICHLOROETHANE	SW-846 METHOD 8240
METHYLENE CHLORIDE	SW-846 METHOD 8240
TRANS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
CIS 1,2-DICHLOROETHENE	SW-846 METHOD 8240
1,1-DICHLOROETHENE	SW-846 METHOD 8240
CHLOROFORM	SW-846 METHOD 8240
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8240
CARBON TETRACHLORIDE	SW-846 METHOD 8240
BENZENE	SW-846 METHOD 8240
1,2-DICHLOROETHANE	SW-846 METHOD 8240
TRICHLOROETHENE	SW-846 METHOD 8240
1,2-DICHLOROPROPANE	SW-846 METHOD 8240
BROMODICHLOROMETHANE	SW-846 METHOD 8240
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
TOLUENE	SW-846 METHOD 8240
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8240
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8240
TETRACHLOROETHENE	SW-846 METHOD 8240
DIBROMOCHLOROMETHANE	SW-846 METHOD 8240
CHLOROBENZENE	SW-846 METHOD 8240
ETHYLBENZENE	SW-846 METHOD 8240
BROMOFORM	SW-846 METHOD 8240
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8240
STYRENE	SW-846 METHOD 8240
ACETONE	SW-846 METHOD 8240

Results	PQL	Unit	Analyst Reference
90.3		%	SP 10/25/93
COMPLETED			BM 10/21/93
COMPLETED			BM 10/21/93
ND	11	MCG/KG	MCG:134 10/21/93
ND	11	MCG/KG	MCG:134 10/21/93
ND	11	MCG/KG	MCG:134 10/21/93
ND	11	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	6	MCG/KG	MCG:134 10/21/93
ND	11	MCG/KG	MCG:134 10/21/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020F

Purchase Order Number: 949300225
Date Sampled: 10/20/93 Time: 8:55 AM
Sampled By : SLATER
Sample Id: SS-2
Location : INSULATING MATERIALS

CTM Sample No: 931020F 01
Date Received: 10/20/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

CARBON DISULFIDE	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:134 10/21/93
VINYL ACETATE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:134 10/21/93
2-HEXANONE	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:134 10/21/93
XYLENE (TOTAL)	SW-846 METHOD 8240	ND	6	MCG/KG	MCG:134 10/21/93
4-METHYL-2-PENTANONE (MIBK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:134 10/21/93
2-BUTANONE (MEK)	SW-846 METHOD 8240	ND	11	MCG/KG	MCG:134 10/21/93

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

**RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF**

CTM PROJECT #:	93.04019
CTM Task #:	931020F
CTM Sample No:	931020F-01
Date Run:	10/21/93
Matrix:	SOIL

[illegible]

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 3



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020F

Purchase Order Number: 949300225
Date Sampled: 10/20/93 Time: 8:55 AM
Sampled By: SLATER
Sample Id: SS-2
Location: INSULATING MATERIALS

CTM Sample No: 931020F 02
Date Received: 10/20/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOL 4/89	92.5		%	SP 10/25/93
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 11/9/93
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			NS 11/1/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
N-NITRODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 290	180	MCG/KG	GCMSD:89 11/9/93

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 4



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931020F

Purchase Order Number: 949300225
Date Sampled: 10/20/93 Time: 8:55 AM
Sampled By : SLATER
Sample Id: SS-2
Location : INSUALTING MATERIALS

CTM Sample No: 931020F 02
Date Received: 10/20/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMSD:89 11/9/93
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSD:89 11/9/93
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSD:89 11/9/93
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSD:89 11/9/93
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMSD:89 11/9/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 11/9/93
ACID EXTRACTION SW 846 3500		COMPLETED			MS 11/1/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSD:89 11/9/93

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 5



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE

12 METRO PARK

ALBANY

NY 12205

CTM PROJECT #: 93.04019

CTM Task #: 931020F

Attention: MR. ED FAHRENKOPF

Purchase Order Number: 949300225

Date Sampled: 10/20/93 Time: 8:55 AM

Sampled By: SLATER

Sample Id: SS-2

Location: INSULATING MATERIALS

CTM Sample No: 931020F 02

Date Received: 10/20/93

Collection Method: COMPOSITE

Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSD:89 11/9/93
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSD:89 11/9/93
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSD:89 11/9/93
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMSD:89 11/9/93
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMSD:89 11/9/93

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931020F
CTM Sample No: 931020F-02
Date Run: 11/9/93
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1	5.84	BENZENE	71-43-2	100	MCG/KG
2	6.27	* CYCLOHEXENE	110-83-8	990	MCG/KG
3	9.58	UNKNOWN	--	250	MCG/KG
4	9.68	UNKNOWN	--	1,200	MCG/KG
5	10.33	UNKNOWN	--	47,000	MCG/KG
6	11.74	UNKNOWN	--	570	MCG/KG
7	13.12	UNKNOWN	--	94	MCG/KG
8	22.1	UNKNOWN	--	80	MCG/KG
9	27.02	UNKNOWN	--	2,600	MCG/KG
10	27.62	UNKNOWN	--	82	MCG/KG
11	29.02	UNKNOWN AMIDE	--	100	MCG/KG
12	29.1	UNKNOWN	--	93	MCG/KG
13	30.02	UNKNOWN	--	180	MCG/KG
14	31.88	UNKNOWN	--	120	MCG/KG
15	32.29	UNKNOWN	--	230	MCG/KG

* SUSPECTED LABORATORY ARTIFACT
CYCLOHEXENE IS A PRESERVATIVE IN METHYLENE CHLORIDE.
CYCLOHEXENE IS PRESENT IN THE BLANK AT THE SAME LEVEL.

Appendix E

December 1993 - Post-Excavation Sample Analytical Results

PAGE 1



GC/MS
GC
ICAP
Sampling Services

CTM PROJECT #: 93.04019

CTM Task #: 931229A

CTM Sample No: 931229A 01
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

<u>Results</u>	<u>PQL</u>	<u>Unit</u>	<u>Analyst</u>	<u>Reference</u>
ND	11	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	11	MCG/KG	MCH:58	1/5/94
ND	5	MCG/KG	MCH:58	1/5/94

(CONTINUES ON NEXT PAGE)

REMARKS:

20003

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 2



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE

12 METRO PARK

ALBANY

NY 12205

Attention: MR. ED FAHRENKOPF

Purchase Order Number:

Date Sampled: 12/28/93 Time: 14:40

Sampled By : SLATER

Sample Id: SS-1 FLOOR

Location : SCHENECTADY

CTM PROJECT #: 93.04019

CTM Task #: 931229A

CTM Sample No: 931229A 01

Date Received: 12/28/93

Collection Method: COMPOSITE

Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
O-XYLENES	SW 846 8240	ND	5	MCG/KG	MCH:58 1/5/94
CIS-1,2-DICHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/5/94
4-METHYL-2-PENTANONE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/5/94
2-BUTANONE (MEK)	SW 846 8240	ND	11	MCG/KG	MCH:58 1/5/94
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			MCH:58 1/5/94
SW-846 8240 VOLATILES		COMPLETED			MCH:58 1/5/94
COMPOSITE OF SAMPLES	CTM	COMPLETED			PC 1/5/94
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 1/4/94
ACID EXTRACTION SW 846 3500		COMPLETED			MS 12/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	1,800	MCG/KG	GCMS D:102 1/4/94
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 1/3/94
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 12/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

00004

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 3



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:40
Sampled By: SLATER
Sample Id: SS-1 FLOOR
Location: SCHENECTADY

CTM Sample No: 931229A 01
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 240	180	MCG/KG	GCMS D:101 1/3/94
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMS D:101 1/3/94
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00005

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 4



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:40
Sampled By: SLATER
Sample Id: SS-1 FLOOR
Location: SCHENECTADY

CTM Sample No: 931229A 01
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(A) PYRENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-METHYLNAPHTHALENE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
3-NITROANILINE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94
DIBENZOFURAN	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-NITROANILINE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94
4-CHLOROANILINE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-NITROANILINE	SW-846 METHOD 8270	BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

0006

CTM Analytical Laboratories, Ltd.

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 12-28-93
SAMPLED BY: Slater
CUSTOMER ID: SS-1 Floor

CTM PROJECT #: 93.04019
CTM TASK #: 931229A
CTM SAMPLE NO.: 1229A01
DATE RECEIVED: 12-29-93
DATE RUN: 1-5-94
MATRIX: Soil

PEAK #	R.T. (min)	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------------	-------------------------------------	------	---------------	-------

No Non-Target or unidentified peaks present

00007

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931229A
CTM Sample No: 931229A-01
Date Run: 1/3/94
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1 *	5.57	CYCLOHEXENE	110-83-8	890	MCG/KG
2	8.98	UNKNOWN	--	1,200	MCG/KG
3	9.61	UNKNOWN	--	17,000	MCG/KG
4	11.15	UNKNOWN	--	1,100	MCG/KG
5	18.51	ISOMER DIISOCYANATE-METHYLBENZENE	--	280	MCG/KG
6	18.58	ISOMER DIISOCYANATE-METHYLBENZENE	--	540	MCG/KG
7	20.19	UNKNOWN	--	260	MCG/KG
8	26.32	COLUMN BLEED	--	1,300	MCG/KG
9	28.55	UNKNOWN AMIDE	--	640	MCG/KG

* CYCLOHEXENE IS USED AS A PRESERVATIVE IN MeCl2

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 5



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:55
Sampled By : SLATER
Sample Id: SS-1 WEST WALL
Location : SCHENECTADY

CTM Sample No: 931229A 02
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
CHLOROMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
VINYL CHLORIDE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
BROMOMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
CHLOROETHANE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
1,1-DICHLOROETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
METHYLENE CHLORIDE	SW 846 8240	(4) 7	5	MCG/KG	MCH:58 1/6/94
TRANS-1,2-DICHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,1-DICHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
CHLOROFORM	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,1,1-TRICHLOROETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
CARBON TETRACHLORIDE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
BENZENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,2-DICHLOROETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
TRICHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,2-DICHLOROPROPANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
BROMODICHLOROMETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
TRANS-1,3-DICHLOROPROPENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
TOLUENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
CIS-1,3-DICHLOROPROPENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,1,2-TRICHLOROETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
TETRACHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
DIBROMOCHLOROMETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
CHLOROBENZENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
ETHYLBENZENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
BROMOFORM	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
1,1,2,2,-TETRACHLOROETHANE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
STYRENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
ACETONE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
CARBON DISULFIDE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
VINYL ACETATE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
2-HEXANONE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
M-XYLENE & P-XYLENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00015

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 6



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:55
Sampled By: SLATER
Sample Id: SS-1 WEST WALL
Location: SCHENECTADY

CTM Sample No: 931229A 02
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
O-XYLENES	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
CIS-1,2-DICHLOROETHENE	SW 846 8240	ND	5	MCG/KG	MCH:58 1/6/94
4-METHYL-2-PENTANONE	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
2-BUTANONE (MEK)	SW 846 8240	ND	11	MCG/KG	MCH:58 1/6/94
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			MCH:58 1/6/94
SW-846 8240 VOLATILES		COMPLETED			MCH:58 1/6/94
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 1/3/94
ACID EXTRACTION SW 846 3500		COMPLETED			MS 12/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	330	180	MCG/KG	GCMS D:101 1/3/94
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	900	MCG/KG	GCMS D:101 1/3/94
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 1/3/94
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 12/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

8016

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 7



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:55
Sampled By: SLATER
Sample Id: SS-1 WEST WALL
Location: SCHENECTADY

CTM Sample No: 931229A 02
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DI-N-BUTYLPHthalate	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 220	180	MCG/KG	GCMS D:101 1/3/94
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	360	MCG/KG	GCMS D:101 1/3/94
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00017

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 8



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 14:55
Sampled By : SLATER
Sample Id: SS-1 WEST WALL
Location : SCHENECTADY

CTM Sample No: 931229A 02
Date Received: 12/28/93
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used

<u>Results</u>	<u>PQL</u>	<u>Unit</u>	<u>Analyst Reference</u>
----------------	------------	-------------	--------------------------

(CONTINUED FROM PREVIOUS PAGE)

DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMS D:101 1/3/94
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	900	MCG/KG	GCMS D:101 1/3/94
COMPOSITE OF SAMPLES	CTM	COMPLETED			PC 1/5/94

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

0013

CTM Analytical Laboratories, Ltd.

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 12-28-93
SAMPLED BY: Slater
CUSTOMER ID: SS-1 West Wall

CTM PROJECT #: 93.04019
CTM TASK #: 931229A
CTM SAMPLE NO.: 1229A02
DATE RECEIVED: 12-29-93
DATE RUN: 1-6-94
MATRIX: Soil

PEAK #	R.T. (min)	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------------	-------------------------------------	------	---------------	-------

No Non-Target or unidentified peaks present

10013

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931229A
CTM Sample No: 931229A-02
Date Run: 1/3/94
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1 *	5.6	CYCLOHEXENE	110-83-8	600	MCG/KG
2	9.03	UNKNOWN	--	1,200	MCG/KG
3	9.66	UNKNOWN	--	16,000	MCG/KG
4	11.19	UNKNOWN	--	1,100	MCG/KG
5	12.58	UNKNOWN	--	200	MCG/KG
6	28.57	UNKNOWN AMIDE	--	700	MCG/KG

* CYCLOHEXENE IS USED AS A PRESERVATIVE IN MeCl2

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 9



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 15:15
Sampled By : SLATER
Sample Id: SS- SOUTH WALL
Location : SCHENECTADY

CTM Sample No: 931229A 03
Date Received: 12/28/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
CHLOROMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
VINYL CHLORIDE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
BROMOMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
CHLOROETHANE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
1,1-DICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
METHYLENE CHLORIDE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
TRANS-1,2-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,1-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CHLOROFORM	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,1,1-TRICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CARBON TETRACHLORIDE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
BENZENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,2-DICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
TRICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,2-DICHLOROPROPANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
BROMODICHLOROMETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
TRANS-1,3-DICHLOROPROPENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
TOLUENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CIS-1,3-DICHLOROPROPENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,1,2-TRICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
TETRACHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
DIBROMOCHLOROMETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CHLOROBENZENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
ETHYLBENZENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
BROMOFORM	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
1,1,2,2,-TETRACHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
STYRENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
ACETONE	SW 846 8240	(4) 15	11	MCG/KG	MCH:54 12/30/93
CARBON DISULFIDE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
VINYL ACETATE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
2-HEXANONE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
M-XYLENE & P-XYLENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00030

CTM Analytical Laboratories, Ltd.

PAGE 10

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 931229A

Purchase Order Number:
Date Sampled: 12/28/93 Time: 15:15
Sampled By : SLATER
Sample Id: SS- SOUTH WALL
Location : SCHENECTADY

CTM Sample No: 931229A 03
Date Received: 12/28/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

O-XYLENES	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CIS-1,2-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
4-METHYL-2-PENTANONE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
2-BUTANONE (MEK)	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			MCH:54 12/30/93
SW-846 8240 VOLATILES		COMPLETED			MCH:54 12/30/93
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 1/3/94
ACID EXTRACTION SW 846 3500		COMPLETED			MS 12/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 1/3/94
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 12/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

00031

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 11



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE

12 METRO PARK

ALBANY

NY 12205

Attention: MR. ED FAHRENKOPF

Purchase Order Number:

Date Sampled: 12/28/93 Time: 15:15

Sampled By : SLATER

Sample Id: SS- SOUTH WALL

Location : SCHENECTADY

CTM PROJECT #: 93.04019

CTM Task #: 931229A

CTM Sample No: 931229A 03

Date Received: 12/28/93

Collection Method: GRAB

Matrix: SOIL

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
D1-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 230	190	MCG/KG	GCMS D:102 1/3/94
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	380	MCG/KG	GCMS D:102 1/3/94
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

00032

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 12



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

CTM Task #: 931229A

Attention: MR. ED FAHRENKOPF

Purchase Order Number:
Date Sampled: 12/28/93 Time: 15:15
Sampled By: SLATER
Sample Id: SS- SOUTH WALL
Location: SCHENECTADY

CTM Sample No: 931229A 03
Date Received: 12/28/93
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

00033

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 12-28-93
SAMPLED BY: Slater
CUSTOMER ID: SS-South Wall

CTM PROJECT #: 93.04019
CTM TASK #: 931229A
CTM SAMPLE NO.: 1229A03
DATE RECEIVED: 12-29-93
DATE RUN: 12-30-93
MATRIX: Soil

PEAK #	R.T. (min)	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------------	-------------------------------------	------	---------------	-------

No Non-Target or unidentified peaks present

00034

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931229A
CTM Sample No: 931229A-03
Date Run: 1/3/94
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1 *	5.71	CYCLOHEXENE	110-83-8	850	MCG/KG
2	9.05	UNKNOWN	--	1,000	MCG/KG
3	9.68	UNKNOWN	--	14,000	MCG/KG
4	11.22	UNKNOWN	--	930	MCG/KG
5	28.59	UNKNOWN AMIDE	--	1,100	MCG/KG

* CYCLOHEXENE IS USED AS A PRESERVATIVE IN MeCl2

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 13:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 NORTH WALL
Location : SCHENECTADY

CTM Sample No: 9312308 01
Date Received: 12/29/93
Collection Method: COMPOSITE
Matrix: WATER

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 1/3/94
B/W EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 12/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DI-N-BUTYLPHthalate	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 2



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 13:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 NORTH WALL
Location : SCHENECTADY

CTM Sample No: 9312308 01
Date Received: 12/29/93
Collection Method: COMPOSITE
Matrix: WATER

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	380	MCG/KG	GCMS D:102 1/3/94
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 310	190	MCG/KG	GCMS D:102 1/3/94
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 1/3/94
ACID EXTRACTION SW 846 3500		COMPLETED			MS 12/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 3



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 13:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 NORTH WALL
Location : SCHENECTADY

CTM Sample No: 9312308 01
Date Received: 12/29/93
Collection Method: COMPOSITE
Matrix: WATER

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
CHLOROMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
VINYL CHLORIDE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
BROMOMETHANE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
CHLOROETHANE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
1,1-DICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
METHYLENE CHLORIDE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
TRANS-1,2-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
1,1-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
CHLOROFORM	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
1,1,1-TRICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
CARBON TETRACHLORIDE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
BENZENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
1,2-DICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
TRICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
1,2-DICHLOROPROPANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
BROMODICHLOROMETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
TRANS-1,3-DICHLOROPROPENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
TOLUENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
CIS-1,3-DICHLOROPROPENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
1,1,2-TRICHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
TETRACHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
DIBROMOCHLOROMETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
CHLOROBENZENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
ETHYLBENZENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
BROMOFORM	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 4



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 13:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 NORTH WALL
Location : SCHENECTADY

CTM Sample No: 9312308 01
Date Received: 12/29/93
Collection Method: COMPOSITE
Matrix: WATER

Parameters and Standard Methodology Used

Results PQL Unit Analyst Reference

(CONTINUED FROM PREVIOUS PAGE)

1,1,2,2,-TETRACHLOROETHANE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
STYRENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
ACETONE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
CARBON DISULFIDE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
VINYL ACETATE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
2-HEXANONE	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
M-XYLENE & P-XYLENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
O-XYLENES	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
CIS-1,2-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
4-METHYL-2-PENTANONE	SW 846 8240	ND	6	MCG/KG	MCH:56 1/3/94
2-BUTANONE (MEK)	SW 846 8240	ND	11	MCG/KG	MCH:56 1/3/94
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			MCH:56 1/3/94
SW-846 8240 VOLATILES		COMPLETED			MCH:56 1/3/94
COMPOSITE OF SAMPLES	CTM	COMPLETED			PC 1/3/94
% SOLIDS	CLP SOW 4/89	91.3		%	SP 1/5/94

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM Analytical Laboratories, Ltd.

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 12-29-93
SAMPLED BY: Fahrenkopf
CUSTOMER ID: SS-2 North Wall

CTM PROJECT #: 93.04019
CTM TASK #: 931230B
CTM SAMPLE NO.: 1230B01
DATE RECEIVED: 12-29-93
DATE RUN: 1-3-94
MATRIX: Soil

TENTATIVELY IDENTIFIED			EST.	
PEAK #	R.T. (min)	COMPOUNDS	CAS#	CONC. UNITS

No Non-Target or unidentified peaks present

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8270

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931230B
CTM Sample No: 931230B-01
Date Run: 1/3/94
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1	5.7	UNKNOWN ALKANE	--	990	MCG/KG
2	9.07	UNKNOWN	--	1400	MCG/KG
3	9.7	UNKNOWN	--	18,000	MCG/KG
4	11.23	UNKNOWN	--	1300	MCG/KG
5	12.61	UNKNOWN	--	220	MCG/KG
6	14.57	UNKNOWN	--	650	MCG/KG
7	28.59	UNKNOWN	--	1400	MCG/KG

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 5



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 14:00
Sampled By: FAHRENKOPF
Sample Id: SS-2 EAST WALL
Location: SCHENECTADY

CTM Sample No: 9312308 02
Date Received: 12/29/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

CHLOROMETHANE	SW 846 8240
VINYL CHLORIDE	SW 846 8240
BROMOMETHANE	SW 846 8240
CHLOROETHANE	SW 846 8240
1,1-DICHLOROETHANE	SW 846 8240
METHYLENE CHLORIDE	SW 846 8240
TRANS-1,2-DICHLOROETHENE	SW 846 8240
1,1-DICHLOROETHENE	SW 846 8240
CHLOROFORM	SW 846 8240
1,1,1-TRICHLOROETHANE	SW 846 8240
CARBON TETRACHLORIDE	SW 846 8240
BENZENE	SW 846 8240
1,2-DICHLOROETHANE	SW 846 8240
TRICHLOROETHENE	SW 846 8240
1,2-DICHLOROPROPANE	SW 846 8240
BROMODICHLOROMETHANE	SW 846 8240
TRANS-1,3-DICHLOROPROPENE	SW 846 8240
TOLUENE	SW 846 8240
CIS-1,3-DICHLOROPROPENE	SW 846 8240
1,1,2-TRICHLOROETHANE	SW 846 8240
TETRACHLOROETHENE	SW 846 8240
DIBROMOCHLOROMETHANE	SW 846 8240
CHLOROBENZENE	SW 846 8240
ETHYLBENZENE	SW 846 8240
BROMOFORM	SW 846 8240
1,1,2,2,-TETRACHLOROETHANE	SW 846 8240
STYRENE	SW 846 8240
ACETONE	SW 846 8240
CARBON DISULFIDE	SW 846 8240
VINYL ACETATE	SW 846 8240
2-HEXANONE	SW 846 8240
M-XYLENE & P-XYLENE	SW 846 8240

Results	PQL	Unit	Analyst Reference
ND	11	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	11	MCG/KG	MCH:54 12/30/93
ND	6	MCG/KG	MCH:54 12/30/93

(CONTINUES ON NEXT PAGE)

REMARKS:

PAGE 6



GC/MS
GC
ICAP
Sampling Services

CTM PROJECT #: 93.04019

CTM Task #: 931230B

CTM Sample No: 931230B 02
Date Received: 12/29/93
Collection Method: GRAB
Matrix: WATER

Results	PQL	Unit	Analyst	Reference
---------	-----	------	---------	-----------

(CONTINUED FROM PREVIOUS PAGE)

O-XYLENES	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
CIS-1,2-DICHLOROETHENE	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
4-METHYL-2-PENTANONE	SW 846 8240	ND	11	MCG/KG	MCH:54 12/30/93
2-BUTANONE (MEK)	SW 846 8240	ND	6	MCG/KG	MCH:54 12/30/93
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			MCH:54 12/30/93
SW-846 8240 VOLATILES		COMPLETED			MCH:54 12/30/93
SW-846 8270 BASE/NEUTRALS		COMPLETED			BB 1/3/94
B/N EXTRACTION SW 846 3500	BASE/NEUTRALS	COMPLETED			MS 12/30/93
BIS-(2-CHLOROETHYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,3-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROISOPROPYL)-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSO-DIPROPYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ISOPHORONE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-CHLOROETHOXY)-METHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
1,2,4-TRICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROCYCLOPENTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-CHLORONAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIMETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHYLENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,6-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIETHYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLOROPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS:

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 7



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 14:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 EAST WALL
Location : SCHENECTADY

CTM Sample No: 9312308 02
Date Received: 12/29/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

(CONTINUED FROM PREVIOUS PAGE)

		Results	PQL	Unit	Analyst Reference
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
N-NITROSODIPHENYLAMINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-BROMOPHENYL-PHENYL-ETHER	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DI-N-BUTYLPHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	(4) 210	190	MCG/KG	GCMS D:102 1/3/94
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BUTYL-BENZYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3,3-DICHLOROBENZIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	380	MCG/KG	GCMS D:102 1/3/94
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BIS-(2-ETHYL-HEXYL) PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DI-N-OCTYL PHTHALATE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-METHYLNAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
3-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
DIBENZOFURAN	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
4-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
4-CHLOROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROANILINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	950	MCG/KG	GCMS D:102 1/3/94
SW-846 8270 ACID EXTRACTABLES		COMPLETED			BB 1/3/94
ACID EXTRACTION SW 846 3500		COMPLETED			MS 12/30/93
PHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94

(CONTINUES ON NEXT PAGE)

REMARKS: (4) Suspected laboratory artifact.

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
PO. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

PAGE 8



GC/MS
GC
ICAP
Sampling Services

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY NY 12205

CTM PROJECT #: 93.04019

Attention: MR. ED FAHRENKOPF

CTM Task #: 9312308

Purchase Order Number: 949300436
Date Sampled: 12/29/93 Time: 14:00
Sampled By : FAHRENKOPF
Sample Id: SS-2 EAST WALL
Location : SCHENECTADY

CTM Sample No: 9312308 02
Date Received: 12/29/93
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
---------	-----	------	-------------------

(CONTINUED FROM PREVIOUS PAGE)

2-CHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DIMETHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-CHLORO-3-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
4-NITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
2-METHYL-4,6-DINITROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
2-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
4-METHYLPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	190	MCG/KG	GCMS D:102 1/3/94
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	950	MCG/KG	GCMS D:102 1/3/94
% SOLIDS	CLP SOW 4/89	88.2		%	SP 1/5/94

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM Analytical Laboratories, Ltd.

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

CLIENT: Rust

DATE SAMPLED: 12-29-93
SAMPLED BY: Fahrenkopf
CUSTOMER ID: SS-2 East Wall

CTM PROJECT #: 93.04019
CTM TASK #: 931230B
CTM SAMPLE NO.: 1230B02
DATE RECEIVED: 12-29-93
DATE RUN: 12-30-93
MATRIX: Soil

PEAK #	R.T. (min)	TENTATIVELY IDENTIFIED COMPOUNDS	CAS#	EST. CONC.	UNITS
--------	------------	-------------------------------------	------	---------------	-------

No Non-Target or unidentified peaks present

CTM ANALYTICAL LABORATORIES, LTD.
VOLATILE ORGANICS
LIBRARY SEARCH
EPA METHOD 8240

RUST ENV. & INFRASTRUCTURE
12 METRO PARK
ALBANY, NY 12205
ATTN: ED FAHRENKOPF

CTM PROJECT #: 93.04019
CTM Task #: 931230B
CTM Sample No: 931230B-02
Date Run: 1/3/94
Matrix: SOIL

PEAK #	R.T.	COMPOUND	CAS #	EST. CONC.	UNITS
1	5.74	UNKNOWN ALKANE	--	1400	MCG/KG
2	9.07	UNKNOWN	--	1100	MCG/KG
3	9.7	UNKNOWN	--	15,000	MCG/KG
4	11.23	UNKNOWN	--	1100	MCG/KG
5	12.61	UNKNOWN	--	190	MCG/KG
6	14.57	UNKNOWN	--	440	MCG/KG