# INTERIM REMEDIAL MEASURES REPORT
# FOR
# BÖWE SYSTEC, INC.
# SITE NO. 1-30-048

**FEBRUARY 1993**



H2MGROUP
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H2MGROUP

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## 1.0 INTRODUCTION

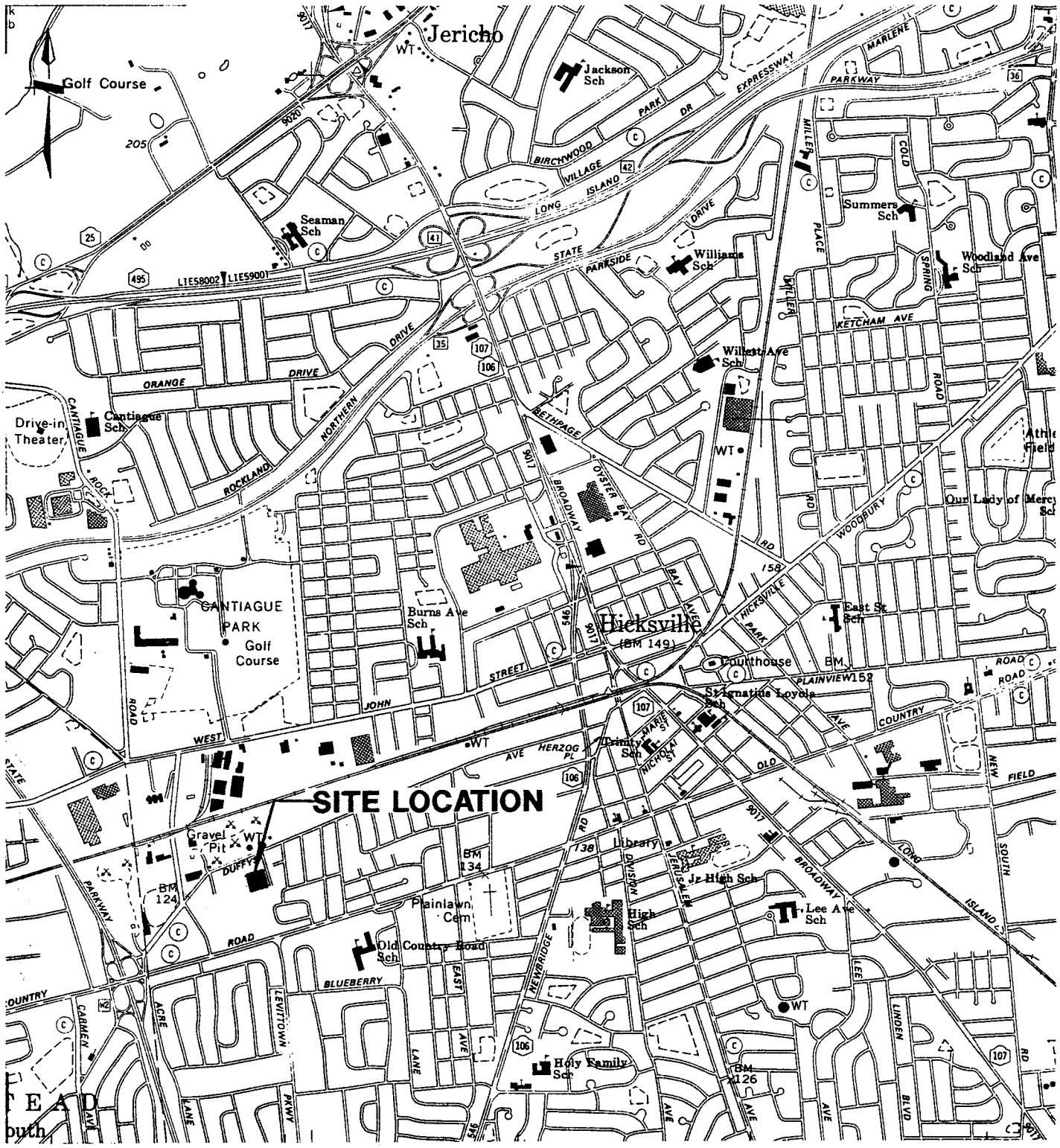
This Interim Remedial Measures (IRMs) Report was prepared for the purpose of documenting the IRMs completed in accordance with an IRM work plan approved by the NYSDEC (September 25, 1992). The IRMs were conducted under the direction of Holzmacher, McLendon & Murrell, P.C. (H2M) and NYSDEC in September and October 1992, at the Böwe Systec, Inc. site (NYSDEC Site No. 1-30-048) located at 200 Frank Road In Hicksville, New York (see Figure 1.1 for site location). NYSDEC supervised and participated in the planning and implementation of the IRMs.

The IRMs completed at this time were based on a Site Screening Investigation (SSI) performed by H2M in June 1992. The purpose of the IRMs was to eliminate volatile organic compounds (VOCs) in the soils identified at certain areas by removal of the soils. The purpose was also to eliminate the potential exposure to VOCs in the shallow soils near the former spray booth area.

Based on the findings of the SSI, certain areas were identified as requiring certain IRM work. Initially, the former spray booth area and drywell DW-8 were targeted for IRMs, whereas the sanitary system cleanout was to be conducted separately. However, the IRMs were expanded to include the sanitary system cleanout due to the potential of the system to act as a contaminant source to groundwater, although there was no documented indication that the sanitary system was in fact acting as a contaminant source.

A description of the procedures and methodologies, confirmatory sampling and results, and conclusions and recommendations of the completed IRMs is presented herein.

FIGURE 1.1




# LOCATION MAP

SCALE: 1" = 2000'

## BÖWE SYSTEC, INC.
## 200 FRANK ROAD
## HICKSVILLE, NEW YORK

DEC. 19, 1991

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## 2.0 CHANGES IN THE IRMs SCOPE OF WORK

The approved IRMs Work Plan was implemented in September and October 1992, with changes in the scope of work. The changes are noted as the addition of the sanitary system cleanout to the IRMs originally proposed. The cleanout of the sanitary system was conducted with representatives from both NYSDEC and Nassau County Department of Health (NCDOH) present on site.

Initially, H2M proposed to conduct the sanitary system cleanout separately from the IRMs and the Phase I Remedial Investigation (RI) at the site. However, due to VOCs detected in the sanitary system, the NYSDEC observed the cleanout and obtained a confirmatory soil sample, which was split with H2M. Section 3.0 of this report will further discuss the procedures and methodologies employed during the IRM conducted on the sanitary system.

There were no other significant changes to the IRMs scope of work.

## 3.0 IRMs PROCEDURES AND METHODOLOGIES

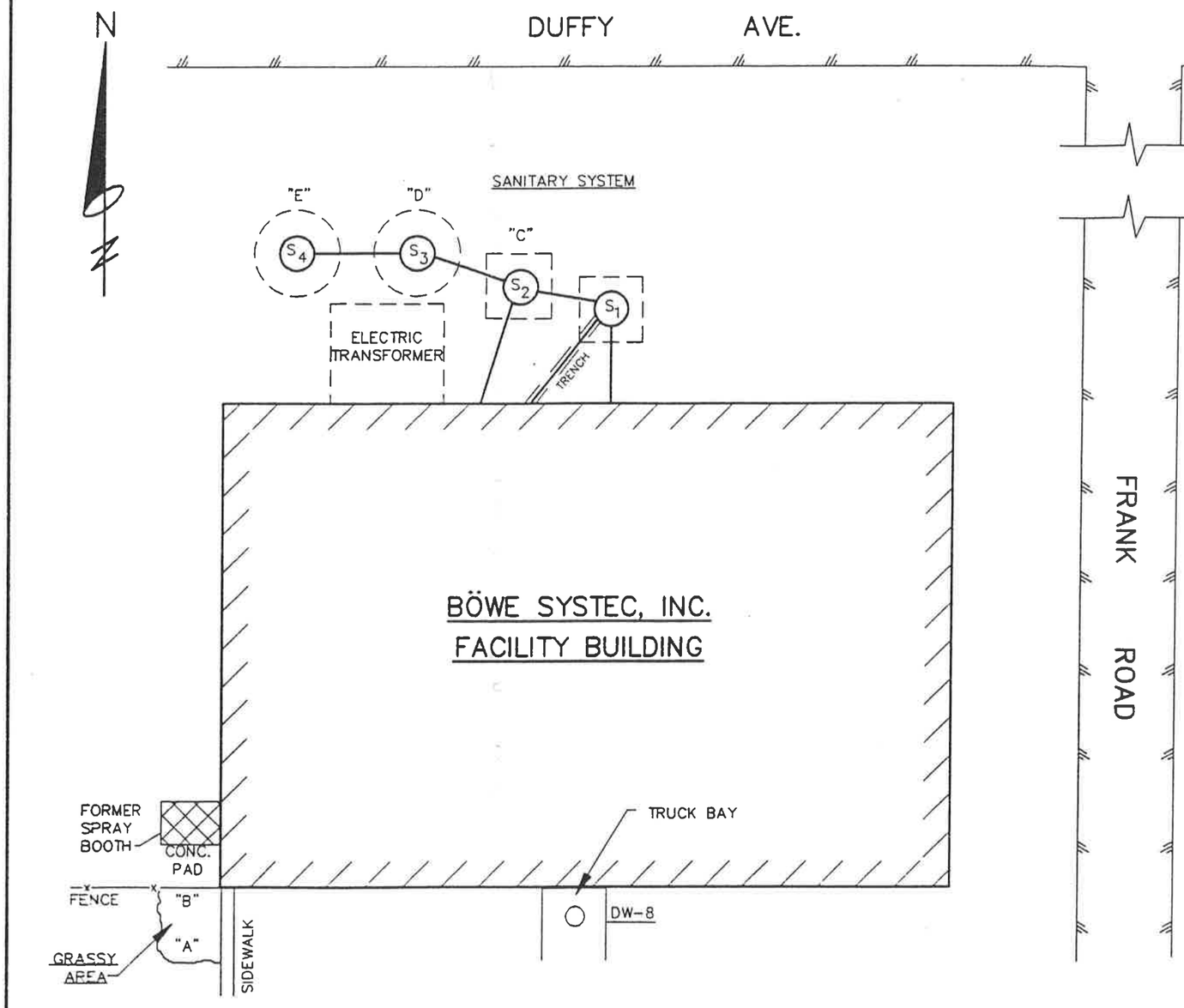
The areas on site where the IRMs were completed are shown on Figure 3.1. These areas are denoted as the grassy area near the former spray booth, drywell DW-8, and the sanitary system (S-1, S-2, S-3 and S-4).

Soils at each location were excavated and removed by Direct Environmental, Inc. (DEI). Prior to contracting with DEI, samples were collected from the areas of concern and tested by H2M Labs, Inc. for TCLP VOCs, PCBs, total petroleum hydrocarbons (TPH), and flash point, in order to characterize the materials for disposal. Following the remediation, confirmatory soil samples were collected and laboratory tested.

### 3.1 Former Spray Booth Area

Based on soil sampling results for the former spray booth (grassy) area, the selected IRM was the excavation of the soils to a maximum depth of 5' below grade. The contaminants in question were VOCs and therefore, the lateral extent of the excavation was determined in the field by use of a calibrated photoionization detector (PID).

Prior to conducting the IRM in this area, a soil gas survey and soil sampling were performed in order to determine the nature and extent of contaminants in the upper 5' of soil.




## LEGEND

($S_1$) – CONCRETE BOX 6'x 6' x 8'
FLOW PIPE FROM BUILDING
PIPE CONNECTING ($S_2$)
LIQUID PRESENT

($S_2$) – OVERFLOW 6'x 6'x 15'
LIQUID FLOW FROM ($S_1$)
PIPE ALSO EXITING FROM BLDG.
OVERFLOW PIPE CONNECTING ($S_3$)
LIQUID PRESENT

($S_3$) – LEACHING POOL 8'X 20'
PIPE LINES FROM ($S_2$) TO ($S_3$) TO ($S_4$)
LIQUID PRESENT (4 FT.)

($S_4$) – LEACHING POOL 8'x 15'
ONLY PIPE PRESENT FROM ($S_3$)
POOL IS DRY

"A" – "E" – CONFIRMATORY SAMPLE COLLECTED AT INDICATED LOCATION

FIGURE 3–1
SITE PLAN AND CONFIRMATORY LOCATIONS
DURING IRMs AT BOWE SYSTEC, INC.
SEPTEMBER 28/29, 1992

SCALE: 1" = 30'

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BOWE 92-02 WP (BOWEFIGR.DWG)

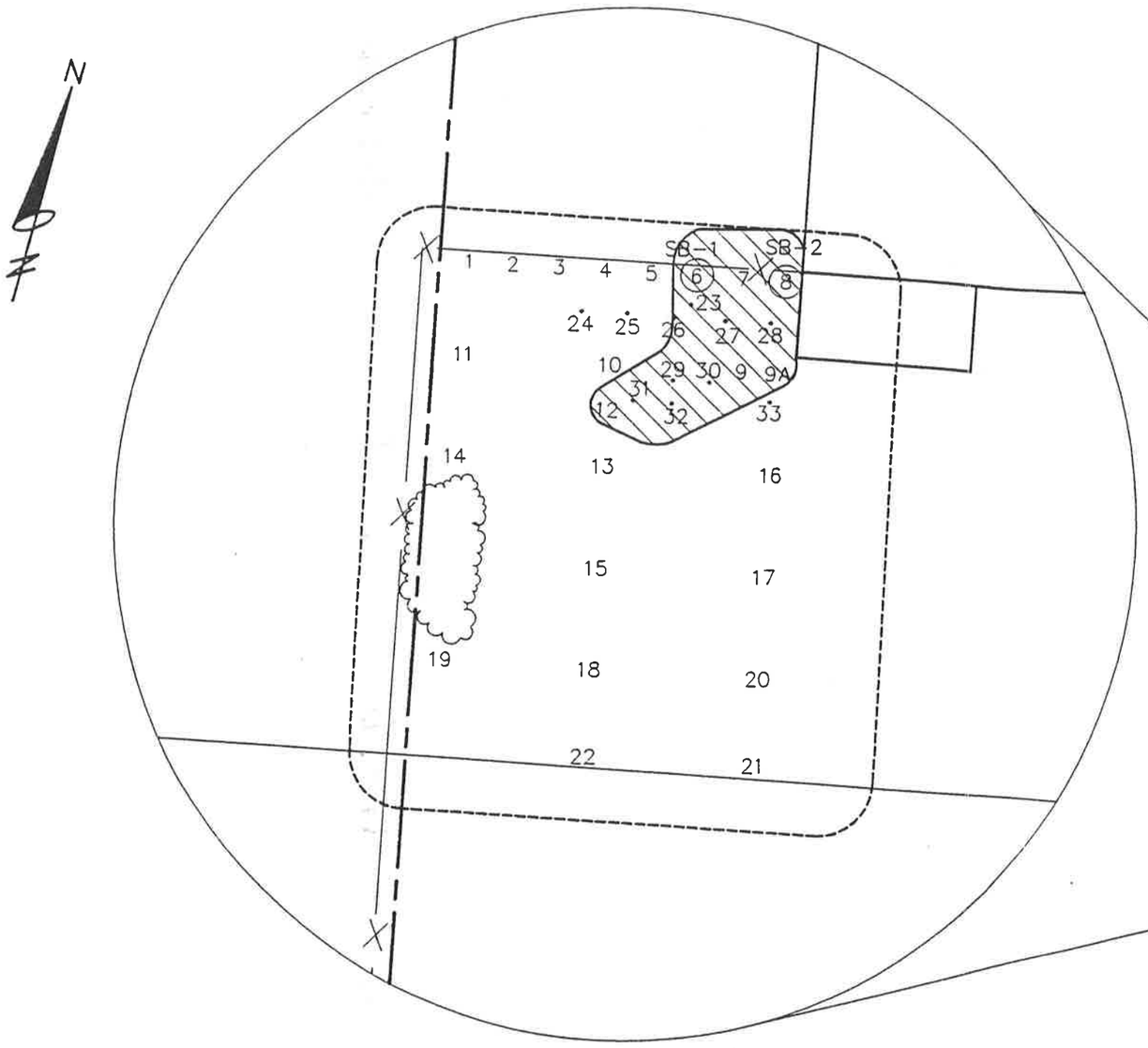
A preliminary soil gas survey was conducted at 23 locations (a coarse grid approximately 10' spacing on center) to estimate VOC concentrations in the shallow soils (see Figure 3.2 for survey locations). This was accomplished by creating a 1/4" diameter hole, extending 2.5 below grade, inserting a length of dedicated Teflon tubing into the hole, and monitoring the soil gas escaping through the tube with a PID. The PID was calibrated on a daily basis prior to field activities.

The results of the coarse-grid soil gas survey ranged from 0.2 to greater than 50.0 parts per million (ppm). Background readings ranged from 0.2 to 0.4 ppm. Two (2) of the 23 locations were further investigated by split spoon sampling and laboratory testing for Target Compound List (TCL) VOCs as per EPA Method 8010 and 8020 (gas chromatography methods).

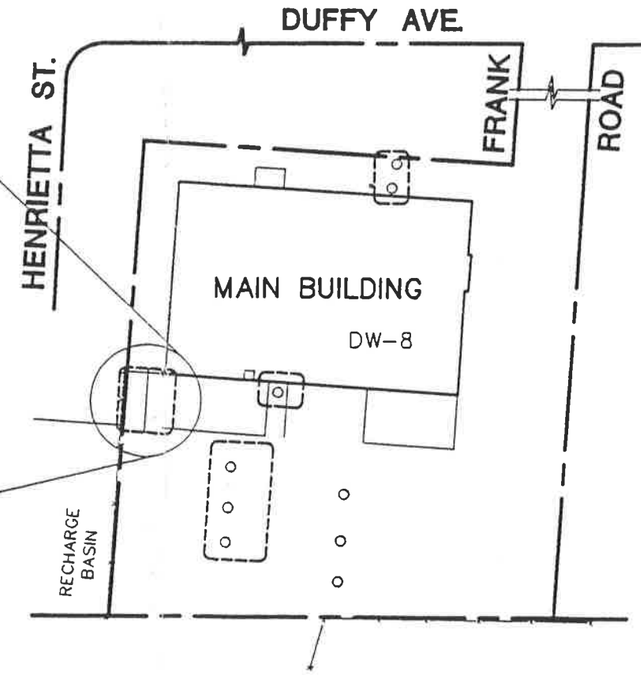
The areas exhibiting the highest readings were located in the northeastern section of the survey area. Based upon the PID results, soil borings were conducted to a depth of 10 feet at soil gas points 6 (SB-2) and 8 (SB-1). A split spoon sample was collected from 2 to 4 feet and 8 to 10 feet below grade at each location and screened with the PID. Based on the PID screening results, two samples were submitted for analysis. Samples SB-1 (2'-4') and SB-2 (2'-4') were selected for TCL VOC analysis.

The laboratory results of the soils indicated elevated levels of tetrachloroethene (PCE) at both locations. Sample SB-1 was detected with 2,300 ug/kg of PCE and SB-2, 910 ug/kg of PCE (see Table 3.1 for detected compounds).

# FIGURE 3.2
## SOIL GAS SURVEY LOCATIONS
## BÖWE SYSTEC, INC.
## 200 FRANK ROAD
## HICKSVILLE, NY




SCALE: 1" = 10'




SCALE: 1" =100'

| LOCATION | PID READINGS * | LOCATION | PID READINGS * | LOCATION | PID READINGS |
|---|---|---|---|---|---|
| 1 | 0.8 | 9A | 18.0 | 23 | 11.0 |
| 2 | 1.4 | 12 | 10.2 | 24 | 1.0 |
| 3 | 1.0 | 13 | 0.8 | 25 | 4.0 |
| 4 | 0.2 | 14 | 0.8 | 26 | 1.2 |
| 5 | 1.0 | 15 | 2.1 | 27 | 22.0 |
| 6 | >20.0 | 16 | 1.0 | 28 | 52.0 |
| 7 | >20.0 | 17 | 0.4 | 29 | 4.0 |
| 8 | >50.0 | 18 | 0.4 | 30 | 11.0 |
| 9 | 1.0 | 19 | 0.6 | 31 | 6.0 |
| 10 | 0.6 | 20 | 1.4 | 32 | 4.0 |
| 11 | 1.2 | 21 | 1.0 | 33 | 4.8 |
| | | 22 | 0.2 | | |

* - READINGS FROM PREVIOUS SSI

### LEGEND

ALL PID READINGS IN EPPM

2 SOIL GAS SAMPLING POINT

SB-1 (6) LOCATION OF SOIL BORING

VEGETATION

BOWEDETL.DWG

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**TABLE 3.1**

TARGET COMPOUND LIST
VOLATILE ORGANIC COMPOUNDS*
QUANTIFIED IN SOIL AT
BÖWE SYSTEC, INC.
HICKSVILLE, NEW YORK

June 24, 1992

| COMPOUNDS | SB-1 (2'-4') | SB-2 (2'-4') | S-1 | S-2/ LP-1 | S-3/ LP-2 | DW-8 (10'-12') |
|---|---|---|---|---|---|---|
| Tetrachloroethene | 2300 | 910 | ND | ND | ND | 81 |
| M-Dichlorobenzene | ND | ND | ND | ND | 480 | ND |
| P-Dichlorobenzene | ND | ND | ND | ND | 1100 | ND |
| O-Dichlorobenzene | ND | ND | ND | ND | 220 | ND |
| 1,3-Xylene | ND | ND | ND | ND | 180 | ND |



Notes:

ND = Not detected
All readings in ug/kg
* See Appendix A for Laboratory Results

To further delineate the area for the IRM, a fine-grid soil gas survey was conducted in the grassy area near the former spray booth. As a result of the fine-grid survey, an area of 10' x 10' was identified with VOCs above 4.0 ppm, as delineated in Figure 3.2. The PID readings within this area ranged from 4.8 ppm to 54 ppm (see Figure 3.2 for survey locations). The area recorded with elevated readings was marked out with wooden stakes (see Appendix B for field reports).

In order to further characterize the soils in this area for disposal, a third soil boring location was selected and a sample was obtained from a 2'-3' depth (below grade). The soil sample (SVA-1) was submitted to H2M Labs, Inc. for Toxicity Characteristic Leaching Procedure (TCLP), VOCs, Metals, PCBs, Total Petroleum Hydrocarbons (TPH), and flash point.

The laboratory results of the SVA-1 soil sample are summarized in Table 3.2. Based on the results, the soils in the area were determined to be non-hazardous under U.S. EPA and NSYDEC standards.

The excavation of the grassy area near the former spray booth was conducted on September 28, 1992. DEI utilized a backhoe to excavate approximately 30 cubic yards of soil (12' wide x 15' long x 4' deep). The soils were stockpiled on an impervious pad, covered and stored in the southwest corner of the site to await disposal. The soils were transported off site on October 7, 1992 and disposed of at Athens Hocking Reclamation Center in Logan, Ohio (see Appendix C for record of disposal).

## TABLE 3.2

CHARACTERIZATION RESULTS* (COMPOUNDS DETECTED)
BÖWE SYSTEC, INC.

| *PARAMETERS* | *SVA-1 (8/31/92)* | *DWA-8 (8/31/92)* | *S-3 (9/17/92)* |
|---|---|---|---|
| TCLP Volatiles | | | |
| Trichloroethene (ug/l) | 11 | <10 | <11 |
| Tetrachloroethene (ug/l) | 620 | 230 | <11 |
| 2-Butanone (MEK) (ug/l) | <10 | <10 | 22 |
| TCLP Metals | | | |
| Barium (mg/l) | 0.24 | 0.35 | 0.24 |
| Cadmium (mg/l) | <0.005 | 0.012 | 0.006 |
| Lead (mg/l) | <0.03 | 0.05 | <0.04 |
| Mercury (ug/l) | <0.20 | <0.20 | 0.26 |
| Petroleum Hydrocarbons (mg/l) | <33.6 | 175 | NT |
| Selenium (mg/l) | 0.10 | <0.04 | <0.06 |
| pH | NT | NT | 6.6 units |
| Flashpoint | >60°C | >60°C | >60°C |
| PCBs | <Detection Level | <Detection Level | <Detection Level |

* See Appendix A for laboratory sheets
NT = Not tested
ug/l = Micrograms per liter
mg/l = Milligrams per liter
mg/kg = Milligrams per kilogram

## 3.2 Drywell DW-8

Based on the soil/sediment sampling results from DW-8 during the SSI (see Table 3.1), the IRM for this area was selected to be the excavation of the affected soils to a maximum depth of 5' below the bottom of the drywell.

Prior to excavation, a soil sample was collected with a decontaminated hand auger at a 1'-2' depth interval into the bottom sediment of DW-8 (see Figure 3.1 for location).

The sample was submitted to H2M Labs, Inc. for TCLP Metals, VOCs, PCBs, TPH, and flash point (see Table 3.2 for detected compounds). Based on the results, the soils at DW-8 were determined to be non-hazardous under U.S. EPA and NYSDEC standards.

The soils at DW-8 were removed by DEI by utilizing a "supersucker". The excavated soils were stockpiled separately in the southwest portion of the site on an impervious pad and covered to await disposal.

DEI removed the soil from the site on October 7, 1992 and transported it to Athens Hocking Reclamation Center in Logan, Ohio (see Appendix C for records).

## 3.3 Sanitary System

The sanitary system (shown on Figure 3.1) was screened and sampled to identify possible sources of VOC contamination to groundwater during the SSI. Bottom samples from two sanitary pools (S-2/LP-1 and S-3/LP-2) and the septic

tank (S-1) were collected by using a decontaminated dredge. The samples were submitted to H2M Labs, Inc. for TCL VOC analysis as per EPA Methods 8010 and 8020.

The three (3) sludge samples were collected in June 1992 from the septic system (located along the northern portion of the building). Of the volatile organics analyzed, none were detected above the detection limit in either the septic tank (S-1), or in leaching pool S-2/LP-1. In leaching pool S-3/LP-2, the following contaminants were detected: m-dichlorobenzene (480 ug/kg); p-dichlorobenzene (1100 ug/kg); o-dichlorobenzene (220 ug/kg); and 1,3-xylene (180 ug/kg).

Follow-up sludge and liquid samples were collected (in August and September 1992) from the sanitary system in order to characterize the material for proper disposal. Sludge samples from S-1, S-2 and S-3 were collected and tested for RCRA Metals (total) and TPH (see Table 3.3 for sample results). In addition, one (1) sludge sample from S-3 and two (2) liquid samples from S-1 and S-2 were obtained and tested for select parameters as specified by the disposal facility. The liquid samples from S-1 and S-2 were tested for RCRA Metals and TCL VOCs. The results are shown in Table 3.4.

Sludge sample S-3 was tested for TCLP metals, VOCs, PCBs, pH and flash point (see Table 3.2 for S-3 results). The results of the analyses indicated that the material in the sanitary system was non-hazardous under U.S EPA and NYSDEC standards.

## TABLE 3.3

DETECTED COMPOUNDS IN SLUDGE*
BÖWE SYSTEC, INC.

AUGUST 14, 1992

| *METALS (mg/kg)* | *S-1* | *S-2* | *S-3* |
|---|---|---|---|
| SILVER | 2.3 | 5.2 | 6.1 |
| ARSENIC | 3.2 | 5.7 | <6.1 |
| BARIUM | 57.7 | <35.9 | 291 |
| CADMIUM | 3.9 | 8.6 | 26.7 |
| CHROMIUM | 41.6 | 86.2 | 115 |
| MERCURY | 1.9 | 6.0 | 9.2 |
| LEAD | 138 | 154 | 296 |
| SELENIUM | 3.59 | 1.58 | 161 |
| PETROLEUM HYDROCARBONS (IR) | 144 | 67.3 | 303 |
| TOTAL SOLIDS (%) | 43.3 | 55.7 | 16.5 |

* See Appendix A for laboratory analysis

## TABLE 3.4

DETECTED COMPOUNDS (LIQUIDS)*
BÖWE SYSTEC, INC.

SAMPLED ON 9/17/92

| *PARAMETERS* | *S-1* | *S-2* |
|---|---|---|
| METALS (TOTAL) | | |
| SILVER (mg/l) | <0.01 | <0.01} |
| ARSENIC (µg/l) | <10.0 | <10.0 |
| BARIUM (mg/l) | <0.20 | <0.20 |
| CADMIUM (µg/l) | <5.0 | <5.0 |
| CHROMIUM (mg/l) | <0.01 | <0.01 |
| MERCURY (µg/l) | <0.20 | <0.20 |
| LEAD (µg/l) | 13.2 | 7.7 |
| SELENIUM (µg/l) | <5.0 | <5.0 |
| TCL PURGEABLE ORGANICS | | |
| C/T-1/2-DICHLOROETHENE (µg/l) | 16 | <5 |

KEY:

* = See Appendix A for laboratory analysis
S-1 = Septic Tank
S-2 = Sanitary Pool #2
µg/l = Micrograms per liter
mg/l = Milligrams per liter

The sanitary system cleanout involved the septic tank (S-1) and three (3) pools (S-2, S-3 and S-4). DEI first pumped the standing liquid/sludge from S-1 and S-2. The three (3) pools and the septic tank were then steam cleaned and the liquid/sludge pumped out. The total amount of liquid/sludge removed from the system was 3,000 gallons. A "supersucker" was then used to excavate bottom sediment/soil from the bottom of S-2, S-3 and S-4 to depths ranging from 2'-3'. Pools S-2, S-3 and S-4 were backfilled (to the bottom of each pool) after cleaning was completed. The liquid/sludge was transported to Cedar Creek (publicly owned treatment works - POTW) and the solids were temporarily stored on site in plastic lined rolloff containers. On October 7, 1992 the material was transported to Athens Hocking Reclamation Center in Logan, Ohio (see Appendix C for records).

## 4.0 CONFIRMATORY SAMPLING RESULTS

Upon completion of the IRMs, confirmatory soil samples were collected from the former spray booth area, and the septic system and tested by H2M Labs, Inc. for TCL VOCs, TCL Metals, and TCL semi-VOCs. The results of this sampling were intended to indicate contaminant concentrations in the soils beneath the excavations, and are presented infra in Tables 4.1 and 4.2.

### 4.1 Former Spray Booth Area

The excavation of approximately 30 cubic yards (4' deep x 12' wide x 15' long) of soil from the grassy area was completed on September 28, 1992 with the NYSDEC present on site. The excavation was performed in the grassy area only, and was limited to the boundaries defined as the concrete pad (to the north), the VOC vapor free soil near the southwest corner of the building and beneath the side walk (to the east), and vapor free soils (to the west and south). Thus, the IRM for this area did not include the excavation of soils beneath the concrete pad (to the north of the grassy area).

H2M collected samples from the base of the excavation (Sample A) and the side wall (Sample B) to the north. The results of the sample collected at the base (or floor) of the excavation indicates that the IRM was effective in removing contaminated soils from that area (see Table 4.1). The sample collected from the north sidewall indicates that contaminated soils (primarily PCE) are still present beneath the concrete pad.

# TABLE 4.1

DETECTED COMPOUNDS *
IN CONFIRMATORY SOIL SAMPLES
BÖWE SYSTEC, INC.
SEPTEMBER 29, 1992

| *PARAMETERS* | *A Excavation Floor* | *B Excavation Wall* | *C (S-2)* | *D (S-3)* | *E (S-4)* |
|---|---|---|---|---|---|
| TCL(1) PURGEABLE ORGANICS (ug/kg) | | | | | |
| C/T-1/2-Dichloroethene | <5 | 260 | <5 | <5 | <5 |
| Trichloroethene | <5 | 46 | <5 | <5 | <5 |
| Tetrachloroethene (PCE) | 13 | 4,100 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | 10 | <5 | <5 |
| Total Xylenes | <5 | <5 | 49 | <5 | <5 |
| Acetone | <11 | 25 | 110 | <10 | <11 |
| 2-Butanone (MEK) | <11 | <10 | 36 | <10 | <11 |
| TCL SEMI-VOLATILE ORGANICS (ug/kg) | | | | | |
| Bis-(2ethylhexyl) Phthalate | <340 | <380 | 970 | 1,000 | 1,300 |
| TCL METALS (mg/kg) | | | | | |
| Aluminum | 2,340 | 8,130 | 2,690 | 1,370 | 1,090 |
| Arsenic | <1.0 | 2.3 | 1.1 | <1.0 | <1.0 |
| Barium | <20.5 | 25.0 | 21.9 | <20.8 | <20.6 |
| Beryllium | <0.51 | <0.57 | 0.54 | <0.52 | <0.52 |
| Calcuim | 174 | 954 | 21,600 | 52.2 | 132 |
| Cadmium | 0.82 | 1.5 | 1.6 | <0.52 | 0.93 |
| Cobalt | 5.1 | <5.7 | <5.4 | <5.2 | <5.2 |
| Chromium | 6.6 | 33.6 | 9.0 | 2.7 | 6.9 |
| Copper | 5.6 | 1,120 | 73.0 | 7.0 | 9.0 |
| Iron | 4,330 | 8,130 | 4,810 | 1,480 | 2,660 |
| Potassium | 186 | 433 | 430.7 | 1.1 | 106 |
| Magnesium | 408 | 1,000 | 2,390 | 115 | 181 |
| Manganese | 63.3 | 58.4 | 80.8 | 4.6 | 9.3 |
| Sodium | 44.1 | 82.2 | 77.4 | 37.3 | 35.2 |
| Nickel | 4.9 | 10.6 | 6.3 | <4.2 | <4.1 |
| Lead | 2.2 | 32.3 | 12.1 | 1.5 | 1.5 |
| Selenium | 0.51 | 0.57 | 0.54 | 0.52 | 0.52 |
| Total Solids | 97.5% | 87.4% | 93.2% | 96.0 | 97.0 |
| Vanadium | 5.1 | 16.1 | 6.4 | <5.2 | <5.2 |
| Zinc | 30.0 | 1,710 | 94.7 | 7.0 | 14.2 |

* See Appendix A for laboratory analyses and Figure 3-1 for sampling locations
(1) TCL indicates Target Compound List
ug/kg Micrograms per kilogram or parts per billion equivalent
mg/kg Milligrams per kilogram

## TABLE 4.2

DETECTED COMPOUNDS*
IN NYSDEC SPLIT SAMPLES
BÖWE SYSTEC, INC.

NYSDEC Sept 2 Tank LP1

| PARAMETERS | B-179-01(1) | B-179-02(2) | B-179-03(3) |
|---|---|---|---|
| TCL PURGEABLE ORGANICS (UG/KG) | | | |
| 1,2 DICHLOROETHENE (TOTAL) | ND | 24 | ND |
| SEMI-VOLATILES (UG/KG) | | | |
| FLUORANTHENE | ND | 430 | ND |
| PYRENE | ND | 460 | ND |
| METALS (MG/KG) | | | |
| ALUMINUM | 2380 | 6960 | 2160 |
| ARSENIC | ND | 3.9 | ND |
| CALCIUM | ND | ND | 11,500 |
| CHROMIUM | 5.2 | 16.9 | 7.4 10 |
| COPPER | 8.9 | 865 | 111 |
| IRON | 4390 | 7040 | 4240 |
| LEAD | 3.8 | 15.7 | 15.3 ~ 30 |
| MAGNESIUM | ND | ND | 1330 |
| MANGANESE | 78.4 | 98.1 | 55.6 |
| MERCURY | ND | ND | 0.16 .1 |
| NICKEL | ND | 13 | ND |
| VANADIUM | ND | 13.7 | ND |
| ZINC | 33.2 | 2170 | 109 20 |
| CYANIDE | 0.55 | 0.56 | 0.54 1 ppm |

* *See Appendix A for laboratory analysis*
*(1) Bottom of excavation pit - north side wall - 6' west of building*
*(2) 18"-24" below grade beneath slab - north side wall*
*(3) First sanitary pool after septic tank (after powerwash)*
*ND Non-detect*

NYSDEC collected split samples from the base of the excavation (B-179-01) and the side wall (B-179-02). The results, shown in Table 4.2, are consistent with H2M's samples for metals analysis but do not indicate the presence of volatile organics in the sample collected from the side wall. However, the NYSDEC analysis of the soil sample from the base of the excavation do indicate low levels of semi-volatiles

## 4.2 Drywell DW-8

The soils at the base of DW-8 were removed to a depth of approximately 5' below the bottom. No confirmatory soil samples were collected after the removal of the soils at this location. However, soils will be sampled from below DW-8 during the Phase I Remedial Investigation (RI). Subsequent to the cleanup, DEI backfilled DW-8 with clean soil (back to the original bottom of the drywell).

## 4.3 Septic System

A total of three (3) confirmatory samples were collected from the base of three (3) sanitary pools, following the cleanout (on September 28, 1992). Samples C, D, and E were obtained by H2M and laboratory tested. Sample C was split with NYSDEC on September 29, 1992. Based on H2M's results, Sample C was detected with low concentrations of TCL VOCs, TCL semi-VOCs, and TCL Metals (see Table 4.1). Samples D and E were free of TCL VOCs and had lower concentrations of TCL Metals compared to C. The presence of the semi-VOC parameter, Bis(2-ethylhexyl) Phthalate, in Samples C, D, and E is difficult to explain due to the lack of use at the Böwe site.

The results of the split sample (Table 4.2) indicate similar concentrations of metals, however, the NYSDEC analysis does not indicate the presence of volatiles or semi-volatiles.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

This section of the report will present the conclusions and recommendations of the IRMs completed at the Böwe Systec, Inc. site.

### 5.1 Conclusions

Sanitary IRM complete

In September and October 1992, H2M and DEI executed the NYSDEC approved IRMs work plan for the Böwe Systec, Inc. site in Hicksville, New York. In addition to the proposed IRMs, H2M included the cleanout of the sanitary system under the oversight provided by both NYSDEC and NCDOH officials. All work was completed in accordance with approved methods as confirmed in the field during site remediation.

Spray Paint Booth IRM Incomplete

The IRM conducted for the former spray booth area was effective in removing the source of VOCs from the soils in the grassy area. However, the soils beneath the concrete pad, closer to the spray booth, required additional investigation. H2M has proposed and completed a follow-up investigation of this area of concern. The results of the follow-up sampling will be presented to NYSDEC in the Phase I RI report.

The IRM conducted at DW-8 removed VOC contaminated soil to a depth of approximately 5' below the bottom of the drywell. The deeper soils at this area were further investigated during the ongoing Phase I RI. The results of the follow-up sampling will be presented in the Phase I RI report.

Both liquid/sludge and bottom sediment/soils were removed from the sanitary system. This included power washing the septic tank, distribution pool and two (2) leaching pools. Based on the confirmatory samples at S-2, a follow-up investigation of the deeper soils at this location were proposed, approved (by NYSDEC), and completed. The results of the follow-up sampling will be presented in the Phase I RI report.

Sanitary IRM complete
Sanitary system abandoned

All materials removed from the site were disposed of at approved facilities. The liquid sanitary waste was transported to Cedar Creek POTW and all solid wastes were transported to Athens Hocking Reclamation Center in Logan, Ohio for proper disposal.

## 5.2 Recommendations

1. Former Spray Booth: Based on the results of the confirmatory sampling, the remediation of the former spray booth area was succcessfully completed. H2M has proposed and completed a follow-up investigation of the area beneath the concrete pad. The investigation consisted of a soil gas survey (using a calibrated PID or FID) conducted on a grid of 10' spacings on center. Based on the results of the survey, two (2) soil boring locations were selected by both H2M and NYSDEC. Soil borings were advanced in accordance with the procedures outlined in section 5.5.2 (Task 2 - Borings and Soil Sampling at Unpaved Area Outside the Former Spray Booth) of the approved Phase I RI Work Plan. The soil samples collected during this task were tested by the laboratory for TCL VOCs and TCL Metals

(no Semi-VOCs). The results of the sampling will be presented in the Phase I RI report.

2. DW-8: In accordance with NYSDEC, H2M conducted a follow-up to the investigation of drywell DW-8. Results will be presented in the Phase I RI report.

3. Sanitary System: In order to determine the extent of the contaminants from the septic system, H2M investigated S-2 by locating a soil boring through the bottom of this pool. NYSDEC agreed that pools S-3 and S-4 have been cleaned to an acceptable level at the present time and that no further investigation will be necessary for these areas. The investigation at S-2 was conducted by soil boring and sampling in accordance with the sampling procedures outlined in Section 5.5.1 (Task 1 - Sampling of Dry Well System) of the approved RI Work Plan. Therefore, Section 5.5.3 (Task 3 - Sampling of Septic System) of the Phase I RI Work Plan was superseded with this revised approach. Two (2) soil samples were collected during soil boring at S-2 and laboratory tested for TCL VOCs, TCL Semi-VOCs, and TCL Metals. The results of samples at this location will be presented in the Phase I RI report.

Once the system has been rendered clean by NYSDEC and NCDOH, the system should be abandoned as per NCDOH approved methods (see Appendix D for NCDOH requirements). Since this project began, the facility has been connected to the Nassau County sanitary sewer system.

# APPENDIX A

# LABORATORY RESULTS

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9220628

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
ROUTINE
METHOD....

DATE COLLECTED. 06/23/92
DATE RECEIVED.. 06/24/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: SB-1(2'-4')
REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | <50 | 1,4-XYLENE | <50 |
| CHLOROMETHANE | <50 | 1,2-XYLENE | <50 |
| VINYL CHLORIDE | <50 | | |
| BROMOMETHANE | <50 | | |
| CHLOROETHANE | <50 | | |
| FLUOROTRICHLOROMETHANE | <50 | | |
| 1,1-DICHLOROETHENE | <50 | | |
| METHYLENE CHLORIDE | <50 | | |
| TRANS-1,2-DICHLOROETHENE | <50 | | |
| 1,1-DICHLOROETHANE | <50 | | |
| CIS-1,2-DICHLOROETHENE | <50 | | |
| CHLOROFORM | <50 | | |
| 1,1,1-TRICHLOROETHANE | <50 | | |
| CARBON TETRACHLORIDE | <50 | | |
| 1,2-DICHLOROETHANE | <50 | | |
| TRICHLOROETHENE | <50 | | |
| 1,2-DICHLOROPROPANE | <50 | | |
| BROMODICHLOROMETHANE | <50 | | |
| TRANS-1,3-DICHLOROPROPENE | <50 | | |
| CIS-1,3-DICHLOROPROPENE | <50 | | |
| 1,1,2-TRICHLOROETHANE | <50 | | |
| TETRACHLOROETHENE | 2300 | | |
| CHLORODIBROMOMETHANE | <50 | | |
| CHLOROBENZENE | <50 | | |
| BROMOFORM | <50 | | |
| 1,1,2,2-TETRACHLOROETHANE | <50 | | |
| M-DICHLOROBENZENE | <50 | | |
| P-DICHLOROBENZENE | <50 | | |
| O-DICHLOROBENZENE | <50 | | |
| BENZENE | <50 | | |
| TOLUENE | <50 | | |
| ETHYLBENZENE | <50 | | |
| 1,3-XYLENE | <50 | | |

COPIES TO: SFB/MOK

DATE ISSUED 06/29/92

DATE RUN..... 06/25/92
DATE REPORTED.. 06/26/92

Stanley Deaderick
LABORATORY DIRECTOR

SFB

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9220629

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
ROUTINE
METHOD....

DATE COLLECTED. 06/23/92
DATE RECEIVED.. 06/24/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: SB-2(2'-4')

REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | <50 | 1,4-XYLENE | <50 |
| CHLOROMETHANE | <50 | 1,2-XYLENE | <50 |
| VINYL CHLORIDE | <50 | | |
| BROMOMETHANE | <50 | | |
| CHLOROETHANE | <50 | | |
| FLUOROTRICHLOROMETHANE | <50 | | |
| 1,1-DICHLOROETHENE | <50 | | |
| METHYLENE CHLORIDE | <50 | | |
| TRANS-1,2-DICHLOROETHENE | <50 | | |
| 1,1-DICHLOROETHANE | <50 | | |
| CIS-1,2-DICHLOROETHENE | <50 | | |
| CHLOROFORM | <50 | | |
| 1,1,1-TRICHLOROETHANE | <50 | | |
| CARBON TETRACHLORIDE | <50 | | |
| 1,2-DICHLOROETHANE | <50 | | |
| TRICHLOROETHENE | <50 | | |
| 1,2-DICHLOROPROPANE | <50 | | |
| BROMODICHLOROMETHANE | <50 | | |
| TRANS-1,3-DICHLOROPROPENE | <50 | | |
| CIS-1,3-DICHLOROPROPENE | <50 | | |
| 1,1,2-TRICHLOROETHANE | <50 | | |
| TETRACHLOROETHENE | 910 | | |
| CHLORODIBROMOMETHANE | <50 | | |
| CHLOROBENZENE | <50 | | |
| BROMOFORM | <50 | | |
| 1,1,2,2-TETRACHLOROETHANE | <50 | | |
| M-DICHLOROBENZENE | <50 | | |
| P-DICHLOROBENZENE | <50 | | |
| O-DICHLOROBENZENE | <50 | | |
| BENZENE | <50 | | |
| TOLUENE | <50 | | |
| ETHYLBENZENE | <50 | | |
| 1,3-XYLENE | <50 | | |

COPIES TO: SFB/MOK

DATE ISSUED 06/29/92

DATE RUN..... 06/25/92
DATE REPORTED.. 06/26/92

Stanley Deaderick
LABORATORY DIRECTOR

SFB

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9220708

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SLUDGE
ROUTINE
METHOD....

DATE COLLECTED. 06/24/92
DATE RECEIVED.. 06/24/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: SEPTIC TANK

REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | <50 | 1,4-XYLENE | <50 |
| CHLOROMETHANE | <50 | 1,2-XYLENE | <50 |
| VINYL CHLORIDE | <50 | | |
| BROMOMETHANE | <50 | | |
| CHLOROETHANE | <50 | | |
| FLUOROTRICHLOROMETHANE | <50 | | |
| 1,1-DICHLOROETHENE | <50 | | |
| METHYLENE CHLORIDE | <50 | | |
| TRANS-1,2-DICHLOROETHENE | <50 | | |
| 1,1-DICHLOROETHANE | <50 | | |
| CIS-1,2-DICHLOROETHENE | <50 | | |
| CHLOROFORM | <50 | | |
| 1,1,1-TRICHLOROETHANE | <50 | | |
| CARBON TETRACHLORIDE | <50 | | |
| 1,2-DICHLOROETHANE | <50 | | |
| TRICHLOROETHENE | <50 | | |
| 1,2-DICHLOROPROPANE | <50 | | |
| BROMODICHLOROMETHANE | <50 | | |
| TRANS-1,3-DICHLOROPROPENE | <50 | | |
| CIS-1,3-DICHLOROPROPENE | <50 | | |
| 1,1,2-TRICHLOROETHANE | <50 | | |
| TETRACHLOROETHENE | <50 | | |
| CHLORODIBROMOMETHANE | <50 | | |
| CHLOROBENZENE | <50 | | |
| BROMOFORM | <50 | | |
| 1,1,2,2-TETRACHLOROETHANE | <50 | | |
| M-DICHLOROBENZENE | <50 | | |
| P-DICHLOROBENZENE | <50 | | |
| O-DICHLOROBENZENE | <50 | | |
| BENZENE | <50 | | |
| TOLUENE | <50 | | |
| ETHYLBENZENE | <50 | | |
| 1,3-XYLENE | <50 | | |

COPIES TO: SFB/MOK

DATE ISSUED 06/29/92

DATE RUN..... 06/25/92
DATE REPORTED.. 06/26/92

Stanley Deaderick
LABORATORY DIRECTOR

SFB

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9220707

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SLUDGE
ROUTINE
METHOD....

DATE COLLECTED. 06/24/92
DATE RECEIVED.. 06/24/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: LP-1
REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | <200 | 1,4-XYLENE | <200 |
| CHLOROMETHANE | <200 | 1,2-XYLENE | <200 |
| VINYL CHLORIDE | <200 | | |
| BROMOMETHANE | <200 | | |
| CHLOROETHANE | <200 | | |
| FLUOROTRICHLOROMETHANE | <200 | | |
| 1,1-DICHLOROETHENE | <200 | | |
| METHYLENE CHLORIDE | <200 | | |
| TRANS-1,2-DICHLOROETHENE | <200 | | |
| 1,1-DICHLOROETHANE | <200 | | |
| CIS-1,2-DICHLOROETHENE | <200 | | |
| CHLOROFORM | <200 | | |
| 1,1,1-TRICHLOROETHANE | <200 | | |
| CARBON TETRACHLORIDE | <200 | | |
| 1,2-DICHLOROETHANE | <200 | | |
| TRICHLOROETHENE | <200 | | |
| 1,2-DICHLOROPROPANE | <200 | | |
| BROMODICHLOROMETHANE | <200 | | |
| TRANS-1,3-DICHLOROPROPENE | <200 | | |
| CIS-1,3-DICHLOROPROPENE | <200 | | |
| 1,1,2-TRICHLOROETHANE | <200 | | |
| TETRACHLOROETHENE | <200 | | |
| CHLORODIBROMOMETHANE | <200 | | |
| CHLOROBENZENE | <200 | | |
| BROMOFORM | <200 | | |
| 1,1,2,2-TETRACHLOROETHANE | <200 | | |
| M-DICHLOROBENZENE | <200 | | |
| P-DICHLOROBENZENE | <200 | | |
| O-DICHLOROBENZENE | <200 | | |
| BENZENE | <200 | | |
| TOLUENE | <200 | | |
| ETHYLBENZENE | <200 | | |
| 1,3-XYLENE | <200 | | |

COPIES TO: SFB/MOK

DATE ISSUED 06/29/92

DATE RUN..... 06/25/92
DATE REPORTED.. 06/26/92

Stanley Deutsch
LABORATORY DIRECTOR

SFB

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9221207

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SLUDGE
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 06/24/92
DATE RECEIVED.. 06/30/92
COLLECTED BY... CJF03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: LP-2
CESSPOOL
REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/l )

| PARAMETER (S) | RESULT |
|---|---|
| DICHLORODIFLUOROMETHANE | <150 |
| CHLOROMETHANE | <150 |
| VINYL CHLORIDE | <150 |
| BROMOMETHANE | <150 |
| CHLOROETHANE | <150 |
| FLUOROTRICHLOROMETHANE | <150 |
| 1,1-DICHLOROETHENE | <150 |
| METHYLENE CHLORIDE | <150 |
| TRANS-1,2-DICHLOROETHENE | <150 |
| 1,1-DICHLOROETHANE | <150 |
| CIS-1,2-DICHLOROETHENE | <150 |
| CHLOROFORM | <150 |
| 1,1,1-TRICHLOROETHANE | <150 |
| CARBON TETRACHLORIDE | <150 |
| 1,2-DICHLOROETHANE | <150 |
| TRICHLOROETHENE | <150 |
| 1,2-DICHLOROPROPANE | <150 |
| BROMODICHLOROMETHANE | <150 |
| TRANS-1,3-DICHLOROPROPENE | <150 |
| CIS-1,3-DICHLOROPROPENE | <150 |
| 1,1,2-TRICHLOROETHANE | <150 |
| TETRACHLOROETHENE | <150 |
| CHLORODIBROMOMETHANE | <150 |
| CHLOROBENZENE | <150 |
| BROMOFORM | <150 |
| 1,1,2,2-TETRACHLOROETHANE | <150 |
| M-DICHLOROBENZENE | 480 |
| P-DICHLOROBENZENE | 1100 |
| O-DICHLOROBENZENE | 220 |
| BENZENE | <150 |
| TOLUENE | <150 |
| ETHYLBENZENE | <150 |
| / 1,3-XYLENE | 180 |
| \ 1,4-XYLENE | - |
| 1,2-XYLENE | <150 |

/ REPORTED VALUE
\ REPRESENTS TOTAL

COPIES TO: SFB/MOK

DATE ISSUED 07/02/92

DATE RUN..... 07/01/92
DATE REPORTED.. 07/01/92

Stanley Deaver
LABORATORY DIRECTOR

MOK

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9220627

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
ROUTINE
METHOD....

DATE COLLECTED. 06/23/92
DATE RECEIVED.. 06/24/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: DW-8(10'-12')
REMARKS:

VOLATILE ORGANIC COMPOUNDS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | <50 | 1,4-XYLENE | <50 |
| CHLOROMETHANE | <50 | 1,2-XYLENE | <50 |
| VINYL CHLORIDE | <50 | | |
| BROMOMETHANE | <50 | | |
| CHLOROETHANE | <50 | | |
| FLUOROTRICHLOROMETHANE | <50 | | |
| 1,1-DICHLOROETHENE | <50 | | |
| METHYLENE CHLORIDE | <50 | | |
| TRANS-1,2-DICHLOROETHENE | <50 | | |
| 1,1-DICHLOROETHANE | <50 | | |
| CIS-1,2-DICHLOROETHENE | <50 | | |
| CHLOROFORM | <50 | | |
| 1,1,1-TRICHLOROETHANE | <50 | | |
| CARBON TETRACHLORIDE | <50 | | |
| 1,2-DICHLOROETHANE | <50 | | |
| TRICHLOROETHENE | <50 | | |
| 1,2-DICHLOROPROPANE | <50 | | |
| BROMODICHLOROMETHANE | <50 | | |
| TRANS-1,3-DICHLOROPROPENE | <50 | | |
| CIS-1,3-DICHLOROPROPENE | <50 | | |
| 1,1,2-TRICHLOROETHANE | <50 | | |
| TETRACHLOROETHENE | 81 | | |
| CHLORODIBROMOMETHANE | <50 | | |
| CHLOROBENZENE | <50 | | |
| BROMOFORM | <50 | | |
| 1,1,2,2-TETRACHLOROETHANE | <50 | | |
| M-DICHLOROBENZENE | <50 | | |
| P-DICHLOROBENZENE | <50 | | |
| O-DICHLOROBENZENE | <50 | | |
| BENZENE | <50 | | |
| TOLUENE | <50 | | |
| ETHYLBENZENE | <50 | | |
| 1,3-XYLENE | <50 | | |

COPIES TO: SFB/MOK

DATE ISSUED 06/29/92

DATE RUN..... 06/25/92
DATE REPORTED.. 06/26/92

Stanley Deaver
LABORATORY DIRECTOR

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9228174

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 08/31/92
DATE RECEIVED.. 08/31/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: SVA-1

REMARKS: TCLP PREP.

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <0.01 | mg/l |
| ARSENIC | <0.04 | mg/l |
| BARIUM | 0.24 | mg/l |
| CADMIUM | <0.005 | mg/l |
| CHROMIUM | <0.01 | mg/l |
| FLASH POINT | >60 | °C |
| MERCURY | <0.20 | ug/l |
| LEAD | <0.03 | mg/l |
| PETROLEUM HYDROCARBON(IR) | <33.6 | mg/kg |
| SELENIUM | 0.10 | mg/l |
| TOTAL SOLIDS | 93.0 | % |

COPIES TO: MOK/MSC

DATE ISSUED 09/18/92

Stanley Isaacson
LABORATORY DIRECTOR

ORIGINAL

HZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9228174

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 08/31/92
DATE RECEIVED.. 08/31/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: SVA-1

REMARKS: TCLP PREP.

---

TCLP VOLATILES - ( ug/l )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| VINYL CHLORIDE | <10 | | |
| 1,1-DICHLOROETHENE | <10 | | |
| CHLOROFORM | <10 | | |
| 1,2-DICHLOROETHANE | <10 | | |
| CARBON TETRACHLORIDE | <10 | | |
| TRICHLOROETHENE | 11 | | |
| BENZENE | <10 | | |
| TETRACHLOROETHENE | 620 | | |
| CHLOROBENZENE | <10 | | |
| 2-BUTANONE (MEK) | <10 | | |

---

COPIES TO: MOK/MSC

DATE ISSUED 09/18/92

DATE RUN..... 09/04/92
DATE REPORTED.. 09/14/92

Stanley Headrick
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9228184

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 08/31/92
DATE RECEIVED.. 09/01/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: DWA-8

REMARKS: TCLP PREP.

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <0.01 | mg/l |
| ARSENIC | <0.04 | mg/l |
| BARIUM | 0.35 | mg/l |
| CADMIUM | 0.012 | mg/l |
| CHROMIUM | <0.01 | mg/l |
| FLASH POINT | >60 | °C |
| MERCURY | <0.20 | ug/l |
| LEAD | 0.05 | mg/l |
| PETROLEUM HYDROCARBON(IR) | 175 | mg/kg |
| SELENIUM | <0.04 | mg/l |
| TOTAL SOLIDS | 89.4 | % |

COPIES TO: MOK/MSC

DATE ISSUED 09/18/92

Stanley Isaacson
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9228184

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 08/31/92
DATE RECEIVED.. 09/01/92
COLLECTED BY... MSC03
PROJECT NO..... BOWE9201

POINT NO:
LOCATION: DWA-8

REMARKS: TCLP PREP.

TCLP VOLATILES - ( ug/l )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| VINYL CHLORIDE | <10 | | |
| 1,1-DICHLOROETHENE | <10 | | |
| CHLOROFORM | <10 | | |
| 1,2-DICHLOROETHANE | <10 | | |
| CARBON TETRACHLORIDE | <10 | | |
| TRICHLOROETHENE | <10 | | |
| BENZENE | <10 | | |
| TETRACHLOROETHENE | 230 | | |
| CHLOROBENZENE | <10 | | |
| 2-BUTANONE (MEK) | <10 | | |

COPIES TO: MOK/MSC

DATE ISSUED 09/18/92

DATE RUN..... 09/04/92
DATE REPORTED.. 09/14/92

Stanley Deaderick
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9230226

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SLUDGE
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: LEACHING POOL

REMARKS: TCLP PREP. (METALS & VOA)

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <0.01 | mg/l |
| ARSENIC | <0.04 | mg/l |
| BARIUM | 0.24 | mg/l |
| CADMIUM | 0.006 | mg/l |
| CHROMIUM | <0.01 | mg/l |
| FLASH POINT | >60 | °C |
| MERCURY | 0.26 | ug/l |
| LEAD | <0.04 | mg/l |
| PH | 6.6 | units |
| SELENIUM | <0.06 | mg/l |
| TOTAL SOLIDS | 13.9 | % |

COPIES TO: MOK

DATE ISSUED 09/27/92

Stanley Deaderick
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9230226

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SLUDGE
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: LEACHING POOL

REMARKS: TCLP PREP. (METALS & VOA)

TCLP VOLATILES - ( ug/l )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| VINYL CHLORIDE | <14 | | |
| 1,1-DICHLOROETHENE | <12 | | |
| CHLOROFORM | <11 | | |
| 1,2-DICHLOROETHANE | <11 | | |
| CARBON TETRACHLORIDE | <11 | | |
| TRICHLOROETHENE | <11 | | |
| BENZENE | <11 | | |
| TETRACHLOROETHENE | <11 | | |
| CHLOROBENZENE | <11 | | |
| 2-BUTANONE (MEK) | 22 | | |

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DATE ISSUED 09/27/92

DATE RUN..... 09/24/92
DATE REPORTED.. 09/25/92

Stanley Treadwell
LABORATORY DIRECTOR

ORIGINAL

# H2M LABS, INC.

575 Broad Hollow Road Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122




BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

DATE RECEIVED.. 08/14/92
COLLECTED BY... CJF03
PROJECT NO..... BOWE9202
TYPE ..... SLUDGE

| LAB NO. | DATE COLLECTED | LOCATION | SILVER mg/kg | ARSENIC mg/kg | BARIUM mg/kg | CADMIUM mg/kg | CHROMIUM mg/kg | MERCURY mg/kg |
|---|---|---|---|---|---|---|---|---|
| 9226685 SPECIAL | 08/14/92 GRAB | SEPTIC TANK (S-1) | 2.3 | 3.2 | 57.7 | 3.9 | 41.6 | 1.9 |
| 9226686 SPECIAL | 08/14/92 GRAB | ~~L.P. #1~~ (S-2) | 5.2 | 5.7 | <35.9 | 8.6 | 86.2 | 6.0 |
| 9226687 SPECIAL | 08/14/92 GRAB | L.P. ~~#2~~ 3 | 6.1 | <6.1 | 291 | 26.7 | 115 | 9.2 |

REMARKS:

DATE ISSUED 09/02/92

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Stanley Isaacs
LABORATORY DIRECTOR

**H2M LABS, INC.**

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(516)694-3040 FAX:(516)694-4122



BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

DATE RECEIVED.. 08/14/92
COLLECTED BY... CJF03
PROJECT NO..... BOWE9202
TYPE ..... SLUDGE

| LAB NO. | DATE COLLECTED | LOCATION | LEAD mg/kg | PET.H. CARBONS(IR) mg/kg | SELENIUM mg/kg | TOTAL SOLIDS % |
|---|---|---|---|---|---|---|
| 9226685 SPECIAL | 08/14/92 GRAB | SEPTIC TANK (S-1) | 138 | 144 | 3.59 | 43.3 |
| 9226686 SPECIAL | 08/14/92 GRAB | ~~L.P. #1~~ (S-2) | 154 | 67.3 | 1.58 | 55.7 |
| 9226687 SPECIAL | 08/14/92 GRAB | L.P. ~~#2~~ 3 | 296 | 303 | 161 | 16.5 |

REMARKS:

DATE ISSUED 09/02/92

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Stanley Isaacson
LABORATORY DIRECTOR

MOK

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(5' 94-4122

LAB NO: 9230224

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... MISCELLANEOUS LIQUID
SPECIAL

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: SEPTIC #1 S-1
REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <0.01 | mg/l |
| ARSENIC | <10.0 | ug/l |
| BARIUM | <0.20 | mg/l |
| CADMIUM | <5.0 | ug/l |
| CHROMIUM | <0.01 | mg/l |
| MERCURY | <0.20 | ug/l |
| LEAD | 13.2 | ug/l |
| SELENIUM | <5.0 | ug/l |

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DATE ISSUED 09/27/92

Stanley Pearson
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516) 694-4122

LAB NO: 9230224

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... MISCELLANEOUS LIQUID
SPECIAL

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: SEPTIC #1 S-1
REMARKS:

TCL PURGEABLE ORGANICS - ( ug/l )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <10 | STYRENE | <5 |
| BROMOMETHANE | <10 | | |
| VINYL CHLORIDE | <10 | | |
| CHLOROETHANE | <10 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | 16 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | <5 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | <10 | | |
| 2-BUTANONE (MEK) | <10 | | |
| 4-METHYL-2PENTANONE(MIBK) | <10 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <10 | | |
| 2-HEXANONE | <10 | | |

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DATE ISSUED 09/27/92

DATE RUN..... 09/23/92
DATE REPORTED.. 09/24/92

Stanley Deaderick
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9230225

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... MISCELLANEOUS LIQUID
SPECIAL

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: SEPTIC #2 (S-2)
REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <0.01 | mg/l |
| ARSENIC | <10.0 | ug/l |
| BARIUM | <0.20 | mg/l |
| CADMIUM | <5.0 | ug/l |
| CHROMIUM | <0.01 | mg/l |
| MERCURY | <0.20 | ug/l |
| LEAD | 7.7 | ug/l |
| SELENIUM | <5.0 | ug/l |

COPIES TO: MOK

DATE ISSUED 09/27/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9230225

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... MISCELLANEOUS LIQUID
SPECIAL

DATE COLLECTED. 09/17/92
DATE RECEIVED.. 09/17/92
COLLECTED BY... MNG03
PROJECT NO..... BOWE9202WD

POINT NO:
LOCATION: SEPTIC #2 (S-2)
REMARKS:

TCL PURGEABLE ORGANICS - ( ug/l )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <10 | STYRENE | <5 |
| BROMOMETHANE | <10 | | |
| VINYL CHLORIDE | <10 | | |
| CHLOROETHANE | <10 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | <5 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | <5 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | <10 | | |
| 2-BUTANONE (MEK) | <10 | | |
| 4-METHYL-2PENTANONE(MIBK) | <10 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <10 | | |
| 2-HEXANONE | <10 | | |

COPIES TO: MOK

DATE ISSUED 09/27/92

DATE RUN..... 09/23/92
DATE REPORTED.. 09/24/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

HZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9231265

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION FLOOR "A"
REMARKS:

TCL PURGEABLE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <11 | STYRENE | <5 |
| BROMOMETHANE | <11 | | |
| VINYL CHLORIDE | <11 | | |
| CHLOROETHANE | <11 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | <5 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | 13 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | <11 | | |
| 2-BUTANONE (MEK) | <11 | | |
| 4-METHYL-2PENTANONE(MIBK) | <11 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <11 | | |
| 2-HEXANONE | <11 | | |

COPIES TO:

DATE ISSUED 10/05/92

DATE RUN..... 10/01/92
DATE REPORTED.. 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

HZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9231265

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION FLOOR "A"

REMARKS:

TCL SEMI-VOLATILE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| 1,3-DICHLOROBENZENE | <340 | BIS(2ETHYLHEXYL)PHTHALATE | <340 |
| 1,4-DICHLOROBENZENE | <340 | CHRYSENE | <340 |
| HEXACHLOROETHANE | <340 | BENZO(A)ANTHRACENE | <340 |
| BIS(2-CHLOROETHYL)ETHER | <340 | 3,3-DICHLOROBENZIDINE | <340 |
| 1,2-DICHLOROBENZENE | <340 | DI-N-OCTYL PHTHALATE | <340 |
| 2,2-OXYBIS(1-CHL.PROPANE) | <340 | BENZO(B)FLUORANTHENE | <340 |
| N-NITROSO-DIPROPYLAMINE | <340 | BENZO(K)FLUORANTHENE | <340 |
| NITROBENZENE | <340 | BENZO(A)PYRENE | <340 |
| HEXACHLOROBUTADIENE | <340 | INDENO(1,2,3-C,D)PYRENE | <340 |
| 1,2,4-TRICHLOROBENZENE | <340 | DIBENZO(A,H)ANTHRACENE | <340 |
| ISOPHORONE | <340 | BENZO (G,H,I)PERYLENE | <340 |
| NAPHTHALENE | <340 | 2-CHLOROPHENOL | <340 |
| BIS(2-CHL.ETHOXY)METHANE | <340 | 2-NITROPHENOL | <340 |
| CARBAZOLE | <340 | PHENOL | <340 |
| HEXACHLOROCYCLOPENTADIENE | <340 | 2,4-DIMETHYLPHENOL | <340 |
| 2-CHLORONAPHTHALENE | <340 | 2,4-DICHLOROPHENOL | <340 |
| ACENAPHTHYLENE | <340 | 2,4,6-TRICHLOROPHENOL | <340 |
| ACENAPHTHENE | <340 | 4-CHLORO-3-METHYLPHENOL | <340 |
| DIMETHYLPHTHALATE | <340 | 2,4-DINITROPHENOL | <840 |
| 2,6-DINITROTOLUENE | <340 | 2-METH.-4,6-DINITROPHENOL | <840 |
| FLUORENE | <340 | PENTACHLOROPHENOL | <840 |
| 4-CHL.PHENYL PHENYLETHER | <340 | 4-NITROPHENOL | <840 |
| 2,4-DINITROTOLUENE | <340 | 2-METHYLPHENOL | <340 |
| DIETHYL PHTHALATE | <340 | 2,4,5-TRICHLOROPHENOL | <340 |
| N-NITROSODIPHENYLAMINE | <340 | BENZOIC ACID | <840 |
| HEXACHLOROBENZENE | <340 | 4-METHYLPHENOL | <840 |
| 4-BROMOPHENYLPHENYLETHER | <340 | BENZYL ALCOHOL | <340 |
| PHENANTHRENE | <340 | 4-CHLOROANILINE | <340 |
| ANTHRACENE | <340 | 2-METHYLNAPHTHALENE | <340 |
| DI-N-BUTYL PHTHALATE | <340 | 2-NITROANILINE | <840 |
| FLUORANTHENE | <340 | 3-NITROANILINE | <840 |
| PYRENE | <340 | DIBENZOFURAN | <340 |
| BUTYL BENZYL PHTHALATE | <340 | 4-NITROANILINE | <840 |

COPIES TO:

DATE ISSUED 10/05/92

DATE EXTRACTED.
DATE RUN..... 10/02/92
DATE REPORTED.. 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

HZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9231265

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION FLOOR "A"

REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <1.0 | mg/kg |
| ALUMINUM | 2340 | mg/kg |
| ARSENIC | <1.0 | mg/kg |
| BARIUM | <20.5 | mg/kg |
| BERYLLIUM | <0.51 | mg/kg |
| CALCIUM | 174 | mg/kg |
| CADMIUM | 0.82 | mg/kg |
| COBALT | 5.1 | mg/kg |
| CHROMIUM | 6.6 | mg/kg |
| COPPER | 5.6 | mg/kg |
| IRON | 4330 | mg/kg |
| MERCURY | <0.11 | mg/kg |
| POTASSIUM | 186 | mg/kg |
| MAGNESIUM | 408 | mg/kg |
| MANGANESE | 63.3 | mg/kg |
| SODIUM | 44.1 | mg/kg |
| NICKEL | 4.9 | mg/kg |
| LEAD | 2.2 | mg/kg |
| ANTIMONY | <6.2 | mg/kg |
| SELENIUM | 0.51 | mg/kg |
| THALLIUM | <1.1 | mg/kg |
| TOTAL SOLIDS | 97.5 | % |
| VANADIUM | 5.1 | mg/kg |
| ZINC | 30.0 | mg/kg |

COPIES TO:

DATE ISSUED 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516) -4122

LAB NO: 9231266

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION WALL "B"

REMARKS:

TCL PURGEABLE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <10 | STYRENE | <5 |
| BROMOMETHANE | <10 | | |
| VINYL CHLORIDE | <10 | | |
| CHLOROETHANE | <10 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | 260 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | 46 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | 4100 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | 25 | | |
| 2-BUTANONE (MEK) | <10 | | |
| 4-METHYL-2PENTANONE(MIBK) | <10 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <10 | | |
| 2-HEXANONE | <10 | | |

COPIES TO:

DATE ISSUED 10/05/92

DATE RUN..... 10/01/92
DATE REPORTED.. 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516) -4122

LAB NO: 9231266

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION WALL "B"
REMARKS:

TCL SEMI-VOLATILE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| 1,3-DICHLOROBENZENE | <380 | BIS(2ETHYLHEXYL)PHTHALATE | <380 |
| 1,4-DICHLOROBENZENE | <380 | CHRYSENE | <380 |
| HEXACHLOROETHANE | <380 | BENZO(A)ANTHRACENE | <380 |
| BIS(2-CHLOROETHYL)ETHER | <380 | 3,3-DICHLOROBENZIDINE | <380 |
| 1,2-DICHLOROBENZENE | <380 | DI-N-OCTYL PHTHALATE | <380 |
| 2,2-OXYBIS(1-CHL.PROPANE) | <380 | BENZO(B)FLUORANTHENE | <380 |
| N-NITROSO-DIPROPYLAMINE | <380 | BENZO(K)FLUORANTHENE | <380 |
| NITROBENZENE | <380 | BENZO(A)PYRENE | <380 |
| HEXACHLOROBUTADIENE | <380 | INDENO(1,2,3-C,D)PYRENE | <380 |
| 1,2,4-TRICHLOROBENZENE | <380 | DIBENZO(A,H)ANTHRACENE | <380 |
| ISOPHORONE | <380 | BENZO (G,H,I)PERYLENE | <380 |
| NAPHTHALENE | <380 | 2-CHLOROPHENOL | <380 |
| BIS(2-CHL.ETHOXY)METHANE | <380 | 2-NITROPHENOL | <380 |
| CARBAZOLE | <380 | PHENOL | <380 |
| HEXACHLOROCYCLOPENTADIENE | <380 | 2,4-DIMETHYLPHENOL | <380 |
| 2-CHLORONAPHTHALENE | <380 | 2,4-DICHLOROPHENOL | <380 |
| ACENAPHTHYLENE | <380 | 2,4,6-TRICHLOROPHENOL | <380 |
| ACENAPHTHENE | <380 | 4-CHLORO-3-METHYLPHENOL | <380 |
| DIMETHYLPHTHALATE | <380 | 2,4-DINITROPHENOL | <950 |
| 2,6-DINITROTOLUENE | <380 | 2-METH.-4,6-DINITROPHENOL | <950 |
| FLUORENE | <380 | PENTACHLOROPHENOL | <950 |
| 4-CHL.PHENYL PHENYLETHER | <380 | 4-NITROPHENOL | <950 |
| 2,4-DINITROTOLUENE | <380 | 2-METHYLPHENOL | <380 |
| DIETHYL PHTHALATE | <380 | 2,4,5-TRICHLOROPHENOL | <380 |
| N-NITROSODIPHENYLAMINE | <380 | BENZOIC ACID | <950 |
| HEXACHLOROBENZENE | <380 | 4-METHYLPHENOL | <950 |
| 4-BROMOPHENYLPHENYLETHER | <380 | BENZYL ALCOHOL | <380 |
| PHENANTHRENE | <380 | 4-CHLOROANILINE | <380 |
| ANTHRACENE | <380 | 2-METHYLNAPHTHALENE | <380 |
| DI-N-BUTYL PHTHALATE | <380 | 2-NITROANILINE | <950 |
| FLUORANTHENE | <380 | 3-NITROANILINE | <950 |
| PYRENE | <380 | DIBENZOFURAN | <380 |
| BUTYL BENZYL PHTHALATE | <380 | 4-NITROANILINE | <950 |

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DATE ISSUED 10/05/92

DATE EXTRACTED.
DATE RUN..... 10/02/92
DATE REPORTED.. 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

NZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)694-4122

LAB NO: 9231266

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: EXCAVATION WALL "B"

REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <1.1 | mg/kg |
| ALUMINUM | 8130 | mg/kg |
| ARSENIC | 2.3 | mg/kg |
| BARIUM | 25.0 | mg/kg |
| BERYLLIUM | <0.57 | mg/kg |
| CALCIUM | 954 | mg/kg |
| CADMIUM | 1.5 | mg/kg |
| COBALT | <5.7 | mg/kg |
| CHROMIUM | 33.6 | mg/kg |
| COPPER | 1120 | mg/kg |
| IRON | 8130 | mg/kg |
| MERCURY | <0.11 | mg/kg |
| POTASSIUM | 433 | mg/kg |
| MAGNESIUM | 1000 | mg/kg |
| MANGANESE | 58.4 | mg/kg |
| SODIUM | 82.2 | mg/kg |
| NICKEL | 10.6 | mg/kg |
| LEAD | 32.3 | mg/kg |
| ANTIMONY | <6.8 | mg/kg |
| SELENIUM | 0.57 | mg/kg |
| THALLIUM | <1.1 | mg/kg |
| TOTAL SOLIDS | 87.4 | % |
| VANADIUM | 16.1 | mg/kg |
| ZINC | 1710 | mg/kg |

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H2M LABS, INC.
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(516)694-3040 FAX:(516) -4122

LAB NO: 9231267

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #2 "C" (S-2)
REMARKS:

TCL PURGEABLE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <11 | STYRENE | <5 |
| BROMOMETHANE | <11 | | |
| VINYL CHLORIDE | <11 | | |
| CHLOROETHANE | <11 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | <5 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | <5 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | 10 | | |
| XYLENES (TOTAL) | 49 | | |
| ACETONE | 110 | | |
| 2-BUTANONE (MEK) | 36 | | |
| 4-METHYL-2PENTANONE(MIBK) | <11 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <11 | | |
| 2-HEXANONE | <11 | | |

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DATE ISSUED 10/05/92

DATE RUN..... 10/01/92
DATE REPORTED.. 10/05/92

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(516)694-3040 FAX:(516) 4-4122

LAB NO: 9231267

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #2

"C" (S-2)

REMARKS:

TCL SEMI-VOLATILE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| 1,3-DICHLOROBENZENE | <350 | BIS(2ETHYLHEXYL)PHTHALATE | 970 |
| 1,4-DICHLOROBENZENE | <350 | CHRYSENE | <350 |
| HEXACHLOROETHANE | <350 | BENZO(A)ANTHRACENE | <350 |
| BIS(2-CHLOROETHYL)ETHER | <350 | 3,3-DICHLOROBENZIDINE | <350 |
| 1,2-DICHLOROBENZENE | <350 | DI-N-OCTYL PHTHALATE | <350 |
| 2,2-OXYBIS(1-CHL.PROPANE) | <350 | BENZO(B)FLUORANTHENE | <350 |
| N-NITROSO-DIPROPYLAMINE | <350 | BENZO(K)FLUORANTHENE | <350 |
| NITROBENZENE | <350 | BENZO(A)PYRENE | <350 |
| HEXACHLOROBUTADIENE | <350 | INDENO(1,2,3-C,D)PYRENE | <350 |
| 1,2,4-TRICHLOROBENZENE | <350 | DIBENZO(A,H)ANTHRACENE | <350 |
| ISOPHORONE | <350 | BENZO (G,H,I)PERYLENE | <350 |
| NAPHTHALENE | <350 | 2-CHLOROPHENOL | <350 |
| BIS(2-CHL.ETHOXY)METHANE | <350 | 2-NITROPHENOL | <350 |
| CARBAZOLE | <350 | PHENOL | <350 |
| HEXACHLOROCYCLOPENTADIENE | <350 | 2,4-DIMETHYLPHENOL | <350 |
| 2-CHLORONAPHTHALENE | <350 | 2,4-DICHLOROPHENOL | <350 |
| ACENAPHTHYLENE | <350 | 2,4,6-TRICHLOROPHENOL | <350 |
| ACENAPHTHENE | <350 | 4-CHLORO-3-METHYLPHENOL | <350 |
| DIMETHYLPHTHALATE | <350 | 2,4-DINITROPHENOL | <890 |
| 2,6-DINITROTOLUENE | <350 | 2-METH.-4,6-DINITROPHENOL | <890 |
| FLUORENE | <350 | PENTACHLOROPHENOL | <890 |
| 4-CHL.PHENYL PHENYLETHER | <350 | 4-NITROPHENOL | <890 |
| 2,4-DINITROTOLUENE | <350 | 2-METHYLPHENOL | <350 |
| DIETHYL PHTHALATE | <350 | 2,4,5-TRICHLOROPHENOL | <350 |
| N-NITROSODIPHENYLAMINE | <350 | BENZOIC ACID | <890 |
| HEXACHLOROBENZENE | <350 | 4-METHYLPHENOL | <890 |
| 4-BROMOPHENYLPHENYLETHER | <350 | BENZYL ALCOHOL | <350 |
| PHENANTHRENE | <350 | 4-CHLOROANILINE | <350 |
| ANTHRACENE | <350 | 2-METHYLNAPHTHALENE | <350 |
| DI-N-BUTYL PHTHALATE | <350 | 2-NITROANILINE | <890 |
| FLUORANTHENE | <350 | 3-NITROANILINE | <890 |
| PYRENE | <350 | DIBENZOFURAN | <350 |
| BUTYL BENZYL PHTHALATE | <350 | 4-NITROANILINE | <890 |

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ORIGINAL

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(516)694-3040 FAX:(516) -4122

LAB NO: 9231267

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO: "C" (S-2)
LOCATION: SANITARY POOL #2

REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <1.1 | mg/kg |
| ALUMINUM | 2690 | mg/kg |
| ARSENIC | 1.1 | mg/kg |
| BARIUM | 21.9 | mg/kg |
| BERYLLIUM | 0.54 | mg/kg |
| CALCIUM | 21600 | mg/kg |
| CADMIUM | 1.6 | mg/kg |
| COBALT | <5.4 | mg/kg |
| CHROMIUM | 9.0 | mg/kg |
| COPPER | 73.0 | mg/kg |
| IRON | 4810 | mg/kg |
| MERCURY | <0.11 | mg/kg |
| POTASSIUM | 430.7 | mg/kg |
| MAGNESIUM | 2390 | mg/kg |
| MANGANESE | 80.8 | mg/kg |
| SODIUM | 77.4 | mg/kg |
| NICKEL | 6.3 | mg/kg |
| LEAD | 12.1 | mg/kg |
| ANTIMONY | <6.4 | mg/kg |
| SELENIUM | 0.54 | mg/kg |
| THALLIUM | <1.1 | mg/kg |
| TOTAL SOLIDS | 93.2 | % |
| VANADIUM | 6.4 | mg/kg |
| ZINC | 94.7 | mg/kg |

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(516)694-3040 FAX:(57 1-4122

LAB NO: 9231268

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

"D"

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #3 (S-3)
REMARKS:

TCL PURGEABLE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <10 | STYRENE | <5 |
| BROMOMETHANE | <10 | | |
| VINYL CHLORIDE | <10 | | |
| CHLOROETHANE | <10 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | <5 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | <5 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | <10 | | |
| 2-BUTANONE (MEK) | <10 | | |
| 4-METHYL-2PENTANONE(MIBK) | <10 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <10 | | |
| 2-HEXANONE | <10 | | |

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DATE ISSUED 10/05/92

DATE RUN..... 10/01/92
DATE REPORTED.. 10/05/92

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ORIGINAL

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575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516) 4122

LAB NO: 9231268

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

"D"

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #3 (S-3)
REMARKS:

TCL SEMI-VOLATILE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| 1,3-DICHLOROBENZENE | <340 | BIS(2ETHYLHEXYL)PHTHALATE | 1000 |
| 1,4-DICHLOROBENZENE | <340 | CHRYSENE | <340 |
| HEXACHLOROETHANE | <340 | BENZO(A)ANTHRACENE | <340 |
| BIS(2-CHLOROETHYL)ETHER | <340 | 3,3-DICHLOROBENZIDINE | <340 |
| 1,2-DICHLOROBENZENE | <340 | DI-N-OCTYL PHTHALATE | <340 |
| 2,2-OXYBIS(1-CHL.PROPANE) | <340 | BENZO(B)FLUORANTHENE | <340 |
| N-NITROSO-DIPROPYLAMINE | <340 | BENZO(K)FLUORANTHENE | <340 |
| NITROBENZENE | <340 | BENZO(A)PYRENE | <340 |
| HEXACHLOROBUTADIENE | <340 | INDENO(1,2,3-C,D)PYRENE | <340 |
| 1,2,4-TRICHLOROBENZENE | <340 | DIBENZO(A,H)ANTHRACENE | <340 |
| ISOPHORONE | <340 | BENZO (G,H,I)PERYLENE | <340 |
| NAPHTHALENE | <340 | 2-CHLOROPHENOL | <340 |
| BIS(2-CHL.ETHOXY)METHANE | <340 | 2-NITROPHENOL | <340 |
| CARBAZOLE | <340 | PHENOL | <340 |
| HEXACHLOROCYCLOPENTADIENE | <340 | 2,4-DIMETHYLPHENOL | <340 |
| 2-CHLORONAPHTHALENE | <340 | 2,4-DICHLOROPHENOL | <340 |
| ACENAPHTHYLENE | <340 | 2,4,6-TRICHLOROPHENOL | <340 |
| ACENAPHTHENE | <340 | 4-CHLORO-3-METHYLPHENOL | <340 |
| DIMETHYLPHTHALATE | <340 | 2,4-DINITROPHENOL | <860 |
| 2,6-DINITROTOLUENE | <340 | 2-METH.-4,6-DINITROPHENOL | <860 |
| FLUORENE | <340 | PENTACHLOROPHENOL | <860 |
| 4-CHL.PHENYL PHENYLETHER | <340 | 4-NITROPHENOL | <860 |
| 2,4-DINITROTOLUENE | <340 | 2-METHYLPHENOL | <340 |
| DIETHYL PHTHALATE | <340 | 2,4,5-TRICHLOROPHENOL | <340 |
| N-NITROSODIPHENYLAMINE | <340 | BENZOIC ACID | <860 |
| HEXACHLOROBENZENE | <340 | 4-METHYLPHENOL | <860 |
| 4-BROMOPHENYLPHENYLETHER | <340 | BENZYL ALCOHOL | <340 |
| PHENANTHRENE | <340 | 4-CHLOROANILINE | <340 |
| ANTHRACENE | <340 | 2-METHYLNAPHTHALENE | <340 |
| DI-N-BUTYL PHTHALATE | <340 | 2-NITROANILINE | <860 |
| FLUORANTHENE | <340 | 3-NITROANILINE | <860 |
| PYRENE | <340 | DIBENZOFURAN | <340 |
| BUTYL BENZYL PHTHALATE | <340 | 4-NITROANILINE | <860 |

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DATE EXTRACTED.
DATE RUN..... 10/02/92
DATE REPORTED.. 10/05/92

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ORIGINAL

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LAB NO: 9231268

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #3 "D" (S-3)

REMARKS:

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <1.0 | mg/kg |
| ALUMINUM | 1370 | mg/kg |
| ARSENIC | <1.0 | mg/kg |
| BARIUM | <20.8 | mg/kg |
| BERYLLIUM | <0.52 | mg/kg |
| CALCIUM | 52.2 | mg/kg |
| CADMIUM | <0.52 | mg/kg |
| COBALT | <5.2 | mg/kg |
| CHROMIUM | 2.7 | mg/kg |
| COPPER | 7.0 | mg/kg |
| IRON | 1480 | mg/kg |
| MERCURY | <0.11 | mg/kg |
| POTASSIUM | 1.1 | mg/kg |
| MAGNESIUM | 115 | mg/kg |
| MANGANESE | 4.6 | mg/kg |
| SODIUM | 37.3 | mg/kg |
| NICKEL | <4.2 | mg/kg |
| LEAD | 1.5 | mg/kg |
| ANTIMONY | <6.3 | mg/kg |
| SELENIUM | 0.52 | mg/kg |
| THALLIUM | <1.0 | mg/kg |
| TOTAL SOLIDS | 96.0 | % |
| VANADIUM | <5.2 | mg/kg |
| ZINC | 7.0 | mg/kg |

COPIES TO:

DATE ISSUED 10/05/92

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LAB NO: 9231269

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RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #4
REMARKS: (S-4)

TCL PURGEABLE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| CHLOROMETHANE | <11 | STYRENE | <5 |
| BROMOMETHANE | <11 | | |
| VINYL CHLORIDE | <11 | | |
| CHLOROETHANE | <11 | | |
| METHYLENE CHLORIDE | <5 | | |
| 1,1-DICHLOROETHENE | <5 | | |
| 1,1-DICHLOROETHANE | <5 | | |
| C/T-1/2-DICHLOROETHENE | <5 | | |
| CHLOROFORM | <5 | | |
| 1,2-DICHLOROETHANE | <5 | | |
| 1,1,1-TRICHLOROETHANE | <5 | | |
| CARBON TETRACHLORIDE | <5 | | |
| BROMODICHLOROMETHANE | <5 | | |
| 1,2-DICHLOROPROPANE | <5 | | |
| TRANS-1,3-DICHLOROPROPENE | <5 | | |
| TRICHLOROETHENE | <5 | | |
| DIBROMOCHLOROMETHANE | <5 | | |
| 1,1,2-TRICHLOROETHANE | <5 | | |
| CIS-1,3-DICHLOROPROPENE | <5 | | |
| BENZENE | <5 | | |
| BROMOFORM | <5 | | |
| 1,1,2,2-TETRACHLOROETHANE | <5 | | |
| TETRACHLOROETHENE | <5 | | |
| TOLUENE | <5 | | |
| CHLOROBENZENE | <5 | | |
| ETHYLBENZENE | <5 | | |
| XYLENES (TOTAL) | <5 | | |
| ACETONE | <11 | | |
| 2-BUTANONE (MEK) | <11 | | |
| 4-METHYL-2PENTANONE(MIBK) | <11 | | |
| CARBON DISULFIDE | <5 | | |
| VINYL ACETATE | <11 | | |
| 2-HEXANONE | <11 | | |

COPIES TO:

DATE ISSUED 10/05/92

DATE RUN..... 10/01/92
DATE REPORTED.. 10/05/92

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HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #4
REMARKS: (S-4)

TCL SEMI-VOLATILE ORGANICS - ( ug/kg )

| PARAMETER (S) | RESULT | PARAMETER (S) | RESULT |
|---|---|---|---|
| 1,3-DICHLOROBENZENE | <340 | BIS(2ETHYLHEXYL)PHTHALATE | 1300 |
| 1,4-DICHLOROBENZENE | <340 | CHRYSENE | <340 |
| HEXACHLOROETHANE | <340 | BENZO(A)ANTHRACENE | <340 |
| BIS(2-CHLOROETHYL)ETHER | <340 | 3,3-DICHLOROBENZIDINE | <340 |
| 1,2-DICHLOROBENZENE | <340 | DI-N-OCTYL PHTHALATE | <340 |
| 2,2-OXYBIS(1-CHL.PROPANE) | <340 | BENZO(B)FLUORANTHENE | <340 |
| N-NITROSO-DIPROPYLAMINE | <340 | BENZO(K)FLUORANTHENE | <340 |
| NITROBENZENE | <340 | BENZO(A)PYRENE | <340 |
| HEXACHLOROBUTADIENE | <340 | INDENO(1,2,3-C,D)PYRENE | <340 |
| 1,2,4-TRICHLOROBENZENE | <340 | DIBENZO(A,H)ANTHRACENE | <340 |
| ISOPHORONE | <340 | BENZO (G,H,I)PERYLENE | <340 |
| NAPHTHALENE | <340 | 2-CHLOROPHENOL | <340 |
| BIS(2-CHL.ETHOXY)METHANE | <340 | 2-NITROPHENOL | <340 |
| CARBAZOLE | <340 | PHENOL | <340 |
| HEXACHLOROCYCLOPENTADIENE | <340 | 2,4-DIMETHYLPHENOL | <340 |
| 2-CHLORONAPHTHALENE | <340 | 2,4-DICHLOROPHENOL | <340 |
| ACENAPHTHYLENE | <340 | 2,4,6-TRICHLOROPHENOL | <340 |
| ACENAPHTHENE | <340 | 4-CHLORO-3-METHYLPHENOL | <340 |
| DIMETHYLPHTHALATE | <340 | 2,4-DINITROPHENOL | <850 |
| 2,6-DINITROTOLUENE | <340 | 2-METH.-4,6-DINITROPHENOL | <850 |
| FLUORENE | <340 | PENTACHLOROPHENOL | <850 |
| 4-CHL.PHENYL PHENYLETHER | <340 | 4-NITROPHENOL | <850 |
| 2,4-DINITROTOLUENE | <340 | 2-METHYLPHENOL | <340 |
| DIETHYL PHTHALATE | <340 | 2,4,5-TRICHLOROPHENOL | <340 |
| N-NITROSODIPHENYLAMINE | <340 | BENZOIC ACID | <850 |
| HEXACHLOROBENZENE | <340 | 4-METHYLPHENOL | <850 |
| 4-BROMOPHENYLPHENYLETHER | <340 | BENZYL ALCOHOL | <340 |
| PHENANTHRENE | <340 | 4-CHLOROANILINE | <340 |
| ANTHRACENE | <340 | 2-METHYLNAPHTHALENE | <340 |
| DI-N-BUTYL PHTHALATE | <340 | 2-NITROANILINE | <850 |
| FLUORANTHENE | <340 | 3-NITROANILINE | <850 |
| PYRENE | <340 | DIBENZOFURAN | <340 |
| BUTYL BENZYL PHTHALATE | <340 | 4-NITROANILINE | <850 |

COPIES TO:

DATE ISSUED 10/05/92

DATE EXTRACTED.
DATE RUN..... 10/02/92
DATE REPORTED.. 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516) -4122

LAB NO: 9231269

BOWE SYSTEM & MACHINE INC.
RICHARD REILLY
200 FRANK RD.
HICKSVILLE, NY 11803

TYPE..... SOIL
SPECIAL
METHOD.... GRAB

DATE COLLECTED. 09/29/92
DATE RECEIVED.. 09/29/92
COLLECTED BY... RVN03
PROJECT NO..... BOWE9202WP

POINT NO:
LOCATION: SANITARY POOL #4
REMARKS:

E
(S-4)

| PARAMETER (S) | RESULTS | UNITS |
|---|---|---|
| SILVER | <1.0 | mg/kg |
| ALUMINUM | 1090 | mg/kg |
| ARSENIC | <1.0 | mg/kg |
| BARIUM | <20.6 | mg/kg |
| BERYLLIUM | <0.52 | mg/kg |
| CALCIUM | 132 | mg/kg |
| CADMIUM | 0.93 | mg/kg |
| COBALT | <5.2 | mg/kg |
| CHROMIUM | 6.9 | mg/kg |
| COPPER | 9.0 | mg/kg |
| IRON | 2660 | mg/kg |
| MERCURY | <0.09 | mg/kg |
| POTASSIUM | 106 | mg/kg |
| MAGNESIUM | 181 | mg/kg |
| MANGANESE | 9.3 | mg/kg |
| SODIUM | 35.2 | mg/kg |
| NICKEL | <4.1 | mg/kg |
| LEAD | 1.5 | mg/kg |
| ANTIMONY | <6.2 | mg/kg |
| SELENIUM | 0.52 | mg/kg |
| THALLIUM | <1.0 | mg/kg |
| TOTAL SOLIDS | 97.0 | % |
| VANADIUM | <5.2 | mg/kg |
| ZINC | 14.2 | mg/kg |

COPIES TO:

DATE ISSUED 10/05/92

J M Slavin
LABORATORY DIRECTOR

ORIGINAL

B-179-01
Soil sample
Bottom of excavation pit
north sidewall
6' west of bldg.

DATA SHEET

EPA SAMPLE NO.

B179-01

Lab

Lab

Matı

Samp

Leve

% Mc

GC C

ontract: 9219408

SAS No.: _____ SDG No.: 0929

Lab Sample ID: 1419201

Lab File ID: E7805

Date Received: 09/30/92

Date Analyzed: 10/07/92

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-09-2 | Methylene Chloride | 4 | BJ |
| 67-64-1 | Acetone | 14 | B |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-01

Lab Name: NYTEST ENV INC Contract: 9219048

Lab Code: NYTEST Case No.: SH192 SAS No.: _____ SDG No.: 0929

Matrix: (soil/water) SOIL Lab Sample ID: 1419201

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2919

Level: (low/med) LOW Date Received: 09/30/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/09/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 350 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-8 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 840 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 840 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 350 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2 | 3-Nitroaniline | 840 | U |
| 83-32-9 | Acenaphthene | 350 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-01

Lab Name: NYTEST ENV INC Contract: 9219048

Lab Code: NYTEST Case No.: SH192 SAS No.: _____ SDG No.: 0929

Matrix: (soil/water) SOIL Lab Sample ID: 1419201

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2919

Level: (low/med) LOW Date Received: 09/30/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/09/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 840 | U |
| 100-02-7 | 4-Nitrophenol | 840 | U |
| 132-64-9 | Dibenzofuran | 350 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2 | Diethylphthalate | 350 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 350 | U |
| 86-73-7 | Fluorene | 350 | U |
| 100-01-6 | 4-Nitroaniline | 840 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 840 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 350 | U |
| 118-74-1 | Hexachlorobenzene | 350 | U |
| 87-86-5 | Pentachlorophenol | 840 | U |
| 85-01-8 | Phenanthrene | 350 | U |
| 120-12-7 | Anthracene | 350 | U |
| 86-74-8 | Carbazole | 350 | U |
| 84-74-2 | Di-n-Butylphthalate | 350 | U |
| 206-44-0 | Fluoranthene | 350 | U |
| 129-00-0 | Pyrene | 350 | U |
| 85-68-7 | Butylbenzylphthalate | 11 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3 | Benzo(a)anthracene | 350 | U |
| 218-01-9 | Chrysene | 350 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 950 | B |
| 117-84-0 | Di-n-octylphthalate | 350 | U |
| 205-99-2 | Benzo(b)fluoranthene | 350 | U |
| 207-08-9 | Benzo(k)fluoranthene | 350 | U |
| 50-32-8 | Benzo(a)pyrene | 350 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 350 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 350 | U |

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

B179-1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219408

Lab Code: 10195 Case No.: SH192 SAS No.: _____ SDG No.: B179-1

Matrix (soil/water): SOIL Lab Sample ID: 192-01

Level (low/med): LOW Date Received: 09/30/92

Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2380 | | | P |
| 7440-36-0 | Antimony | 8.2 | U | | P |
| 7440-38-2 | Arsenic | 1.1 | U | W | F |
| 7440-39-3 | Barium | 9.8 | B | | P |
| 7440-41-7 | Beryllium | 0.21 | U | | P |
| 7440-43-9 | Cadmium | 0.63 | U | | P |
| 7440-70-2 | Calcium | 253 | B | * | P |
| 7440-47-3 | Chromium | 5.2 | | | P |
| 7440-48-4 | Cobalt | 5.5 | B | | P |
| 7440-50-8 | Copper | 8.9 | | N* | P |
| 7439-89-6 | Iron | 4390 | | | P |
| 7439-92-1 | Lead | 3.8 | | | F |
| 7439-95-4 | Magnesium | 520 | B | | P |
| 7439-96-5 | Manganese | 78.4 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | 5.1 | B | | P |
| 7440-09-7 | Potassium | 161 | U | | P |
| 7782-49-2 | Selenium | 1.1 | U | | F |
| 7440-22-4 | Silver | 0.84 | U | | P |
| 7440-23-5 | Sodium | 67.5 | U | | P |
| 7440-28-0 | Thallium | 1.1 | U | | F |
| 7440-62-2 | Vanadium | 4.6 | B | | P |
| 7440-66-6 | Zinc | 33.2 | | N | P |
| 5955-70-0 | Cyanide | 0.55 | | | AS |

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: ___

Comments:

B179-01

# PESTICIDE ORGANICS 1D ANALYSIS DATA SHEET

EPA SAMPLE NO.: B179-01

Lab Name: NYTEST ENV INC  Contract: 9219408

Lab Code: NYTEST  Case No.: 14192  SAS No.:  SDG No.:

Matrix: (soil/water) SOIL  Lab Sample ID: 1419201

Sample wt/vol: 30.0 (g/mL) G  Lab File ID:

% Moisture: 5  decanted: (Y/N) N  Date Received: 09/30/92

Extraction: (SepF/Cont/Sonc) SONC  Date Extracted: 10/03/92

Concentrated Extract Volume: 5000 (uL)  Date Analyzed: 10/20/92

Injection Volume: 1.00 (uL)  Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y  pH: 5.0  Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 1.8 | U |
| 319-85-7 | beta-BHC | 1.8 | U |
| 319-86-8 | delta-BHC | 1.8 | U |
| 58-89-9 | gamma-BHC (Lindane) | 1.8 | U |
| 76-44-8 | Heptachlor | 1.8 | U |
| 309-00-2 | Aldrin | 1.8 | U |
| 1024-57-3 | Heptachlor epoxide | 1.8 | U |
| 959-98-8 | Endosulfan I | 1.8 | U |
| 60-57-1 | Dieldrin | 3.5 | U |
| 72-55-9 | 4,4'-DDE | 3.5 | U |
| 72-20-8 | Endrin | 3.5 | U |
| 33213-65-9 | Endosulfan II | 3.5 | U |
| 72-54-8 | 4,4'-DDD | 3.5 | U |
| 1031-07-8 | Endosulfan sulfate | 3.5 | U |
| 50-29-3 | 4,4'-DDT | 3.5 | U |
| 72-43-5 | Methoxychlor | 18 | U |
| 53494-70-5 | Endrin ketone | 3.5 | U |
| 7421-36-3 | Endrin aldehyde | 3.5 | U |
| 5103-71-9 | alpha-Chlordane | 1.8 | U |
| 5103-74-2 | gamma-Chlordane | 1.8 | U |
| 8001-35-2 | Toxaphene | 180 | U |
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

0000036

VOLATILE OR

B-179-02
Soil sample
18" - 24" below grade,
beneath slab -
north sidewall
Same as #1

EPA SAMPLE NO.

B179-02

Lab Name: NYTEST ENV IN

Lab Code: _____ Cas

Matrix: (soil/water) SO

Sample wt/vol: ___

Level: (low/med) LO

% Moisture: not dec. ___

GC Column: PACK _____ I

OG No.: 0929

D: 1419202

E7806

I: 09/30/92

I: 10/07/92

tor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 75-01-4 | Vinyl Chloride | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 75-09-2 | Methylene Chloride | 4 | BJ |
| 67-64-1 | Acetone | 11 | BJ |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 24 | |
| 67-66-3 | Chloroform | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 79-01-6 | Trichloroethene | 11 | J |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 127-18-4 | Tetrachloroethene | 690 | E |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 1330-20-7 | Xylene (total) | 11 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-02

Lab Name: NYTEST ENV INC Contract: 9219048

Lab Code: NYTEST Case No.: SH192 SAS No.: _____ SDG No.: 0929

Matrix: (soil/water) SOIL Lab Sample ID: 1419202

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2920

Level: (low/med) LOW Date Received: 09/30/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/09/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 370 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 370 | U |
| 95-57-8 | 2-Chlorophenol | 370 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 370 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 370 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 370 | U |
| 95-48-7 | 2-Methylphenol | 370 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 370 | U |
| 106-44-5 | 4-Methylphenol | 370 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 370 | U |
| 67-72-1 | Hexachloroethane | 370 | U |
| 98-95-3 | Nitrobenzene | 370 | U |
| 78-59-1 | Isophorone | 370 | U |
| 88-75-5 | 2-Nitrophenol | 370 | U |
| 105-67-9 | 2,4-Dimethylphenol | 370 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 370 | U |
| 120-83-2 | 2,4-Dichlorophenol | 370 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 370 | U |
| 91-20-3 | Naphthalene | 370 | U |
| 106-47-8 | 4-Chloroaniline | 370 | U |
| 87-68-3 | Hexachlorobutadiene | 370 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 370 | U |
| 91-57-6 | 2-Methylnaphthalene | 370 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 370 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 370 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 900 | U |
| 91-58-7 | 2-Chloronaphthalene | 370 | U |
| 88-74-4 | 2-Nitroaniline | 900 | U |
| 131-11-3 | Dimethylphthalate | 370 | U |
| 208-96-8 | Acenaphthylene | 370 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 370 | U |
| 99-09-2 | 3-Nitroaniline | 900 | U |
| 83-32-9 | Acenaphthene | 30 | J |

0000027

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-02

Lab Name: NYTEST ENV INC Contract: 9219048

Lab Code: NYTEST Case No.: SH192 SAS No.: _____ SDG No.: 0929

Matrix: (soil/water) SOIL Lab Sample ID: 1419202

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F2920

Level: (low/med) LOW Date Received: 09/30/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/09/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 900 | U |
| 100-02-7 | 4-Nitrophenol | 900 | U |
| 132-64-9 | Dibenzofuran | 7 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 370 | U |
| 84-66-2 | Diethylphthalate | 12 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 370 | U |
| 86-73-7 | Fluorene | 19 | J |
| 100-01-6 | 4-Nitroaniline | 900 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 370 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 370 | U |
| 118-74-1 | Hexachlorobenzene | 370 | U |
| 87-86-5 | Pentachlorophenol | 900 | U |
| 85-01-8 | Phenanthrene | 210 | J |
| 120-12-7 | Anthracene | 52 | J |
| 86-74-8 | Carbazole | 15 | J |
| 84-74-2 | Di-n-Butylphthalate | 370 | U |
| 206-44-0 | Fluoranthene | 430 | |
| 129-00-0 | Pyrene | 460 | |
| 85-68-7 | Butylbenzylphthalate | 370 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 370 | U |
| 56-55-3 | Benzo(a)anthracene | 240 | J |
| 218-01-9 | Chrysene | 300 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330 | BJ |
| 117-84-0 | Di-n-octylphthalate | 16 | J |
| 205-99-2 | Benzo(b)fluoranthene | 230 | J |
| 207-08-9 | Benzo(k)fluoranthene | 130 | J |
| 50-32-8 | Benzo(a)pyrene | 160 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 190 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 370 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 180 | J |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B179-02

Lab Name: NYTEST ENV INC  Contract: 9219048

Lab Code: NYTEST  Case No.: SH192  SAS No.: _____  SDG No.: 0929

Matrix: (soil/water) SOIL  Lab Sample ID: 1419202

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: F2920

Level: (low/med) LOW  Date Received: 09/30/92

% Moisture: 11 decanted: (Y/N) N  Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL)  Date Analyzed: 10/09/92

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y  pH: 5.0

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 5.19 | 7300 | JAB |
| 2. | | UNKNOWN | 10.08 | 190 | J |
| 3. | | UNKNOWN ALKANE | 10.18 | 240 | J |
| 4. | | UNKNOWN | 10.25 | 180 | J |
| 5. | | UNKNOWN ALKANE | 10.35 | 270 | J |
| 6. | | UNKNOWN ALKANE | 10.81 | 380 | J |
| 7. | | UNKNOWN ALKANE | 10.96 | 190 | J |
| 8. | | UNKNOWN ALKANE | 11.80 | 710 | J |
| 9. | | UNKNOWN CYCLOALKANE | 12.08 | 160 | J |
| 10. | | UNKNOWN | 12.43 | 310 | J |
| 11. | | UNKNOWN ALKANE | 12.69 | 820 | J |
| 12. | | UNKNOWN ALKENE | 12.94 | 200 | J |
| 13. | | UNKNOWN UNDECANE ISOMER | 13.11 | 600 | J |
| 14. | | UNKNOWN CYCLOALKANE | 13.84 | 1000 | J |
| 15. | | UNKNOWN ALKANE | 13.94 | 750 | J |
| 16. | | UNKNOWN ALKANE | 14.13 | 500 | J |
| 17. | | UNKNOWN ALKANE | 14.21 | 1600 | J |
| 18. | | UNKNOWN ALKANE | 14.53 | 2300 | J |
| 19. | | UNKNOWN ALKANE | 15.36 | 680 | J |
| 20. | 57-10-3 | HEXADECANOIC ACID | 21.23 | 3200 | JN |
| 21. | | UNKNOWN ACID | 23.15 | 1100 | J |

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

B179-2

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219408

Lab Code: 10195 Case No.: SH192 SAS No.: SDG No.: B179-1

Matrix (soil/water): SOIL Lab Sample ID: 192-02

Level (low/med): LOW Date Received: 09/30/92

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6960 | | | P |
| 7440-36-0 | Antimony | 8.8 | U | | P |
| 7440-38-2 | Arsenic | 3.9 | | | F |
| 7440-39-3 | Barium | 23.5 | B | | P |
| 7440-41-7 | Beryllium | 0.29 | B | | P |
| 7440-43-9 | Cadmium | 0.68 | U | | P |
| 7440-70-2 | Calcium | 1020 | B | * | P |
| 7440-47-3 | Chromium | 16.9 | | | P |
| 7440-48-4 | Cobalt | 3.0 | B | | P |
| 7440-50-8 | Copper | 865 | | N* | P |
| 7439-89-6 | Iron | 7040 | | | P |
| 7439-92-1 | Lead | 15.7 | | | F |
| 7439-95-4 | Magnesium | 1090 | B | | P |
| 7439-96-5 | Manganese | 98.1 | | | P |
| 7439-97-6 | Mercury | 0.11 | U | | CV |
| 7440-02-0 | Nickel | 13.0 | | | P |
| 7440-09-7 | Potassium | 409 | B | | P |
| 7782-49-2 | Selenium | 1.1 | U | | F |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 72.4 | U | | P |
| 7440-28-0 | Thallium | 1.1 | U | | F |
| 7440-62-2 | Vanadium | 13.7 | | | P |
| 7440-66-6 | Zinc | 2170 | | N | P |
| 5955-70-0 | Cyanide | 0.56 | | | AS |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

B179-02

Pb - 2x DILUTION

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-02

Lab Name: NYTEST ENV INC  Contract: 9219408

Lab Code: NYTEST  Case No.: 14192  SAS No.:  SDG No.:

Matrix: (soil/water) SOIL  Lab Sample ID: 1419202

Sample wt/vol: 30.0 (g/mL) G  Lab File ID:

% Moisture: 11  decanted: (Y/N) N  Date Received: 09/30/92

Extraction: (SepF/Cont/Sonc) SONC  Date Extracted: 10/03/92

Concentrated Extract Volume: 5000 (uL)  Date Analyzed: 10/20/92

Injection Volume: 1.00 (uL)  Dilution Factor: 3.00

GPC Cleanup: (Y/N) Y  pH: 5.0  Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 5.7 | U |
| 319-85-7 | beta-BHC | 5.7 | U |
| 319-86-8 | delta-BHC | 5.7 | U |
| 58-89-9 | gamma-BHC (Lindane) | 5.7 | U |
| 76-44-8 | Heptachlor | 5.7 | U |
| 309-00-2 | Aldrin | 5.7 | U |
| 1024-57-3 | Heptachlor epoxide | 5.7 | U |
| 959-98-8 | Endosulfan I | 5.7 | U |
| 60-57-1 | Dieldrin | 11 | U |
| 72-55-9 | 4,4'-DDE | 11 | U |
| 72-20-8 | Endrin | 11 | U |
| 33213-65-9 | Endosulfan II | 11 | U |
| 72-54-8 | 4,4'-DDD | 11 | U |
| 1031-07-8 | Endosulfan sulfate | 11 | U |
| 50-29-3 | 4,4'-DDT | 11 | U |
| 72-43-5 | Methoxychlor | 57 | U |
| 53494-70-5 | Endrin ketone | 11 | U |
| 7421-36-3 | Endrin aldehyde | 11 | U |
| 5103-71-9 | alpha-Chlordane | 5.7 | U |
| 5103-74-2 | gamma-Chlordane | 5.7 | U |
| 8001-35-2 | Toxaphene | 570 | U |
| 12674-11-2 | Aroclor-1016 | 110 | U |
| 11104-28-2 | Aroclor-1221 | 230 | U |
| 11141-16-5 | Aroclor-1232 | 110 | U |
| 53469-21-9 | Aroclor-1242 | 110 | U |
| 12672-29-6 | Aroclor-1248 | 110 | U |
| 11097-69-1 | Aroclor-1254 | 30 | J |
| 11096-82-5 | Aroclor-1260 | 110 | U |

1A

VOLATILE ORG

EPA SAMPLE NO.

B179-03

B179-03

first sanitary pool after Septic tank sample taken after powerwashing + Supersucker soil sample w/ hand a.

Lab Name: NYTEST ENV INC

Lab Code: _____ Case No.: 0929

Matrix: (soil/water) SOIL 1419203

Sample wt/vol: 2. E7820

Level: (low/med) LOW 09/30/92

% Moisture: not dec. 13 10/08/92

GC Column: PACK ID: or: 1.0

Soil Extract Volume: _____ ot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 23 | U |
| 74-83-9 | Bromomethane | 23 | U |
| 75-01-4 | Vinyl Chloride | 23 | U |
| 75-00-3 | Chloroethane | 23 | U |
| 75-09-2 | Methylene Chloride | 15 | BJ |
| 67-64-1 | Acetone | 18 | BJ |
| 75-15-0 | Carbon Disulfide | 23 | U |
| 75-35-4 | 1,1-Dichloroethene | 23 | U |
| 75-34-3 | 1,1-Dichloroethane | 23 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 23 | U |
| 67-66-3 | Chloroform | 23 | U |
| 107-06-2 | 1,2-Dichloroethane | 23 | U |
| 78-93-3 | 2-Butanone | 23 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 23 | U |
| 56-23-5 | Carbon Tetrachloride | 23 | U |
| 75-27-4 | Bromodichloromethane | 23 | U |
| 78-87-5 | 1,2-Dichloropropane | 23 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 23 | U |
| 79-01-6 | Trichloroethene | 23 | U |
| 124-48-1 | Dibromochloromethane | 23 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 23 | U |
| 71-43-2 | Benzene | 23 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 23 | U |
| 75-25-2 | Bromoform | 23 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 23 | U |
| 591-78-6 | 2-Hexanone | 23 | U |
| 127-18-4 | Tetrachloroethene | 23 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 23 | U |
| 108-88-3 | Toluene | 23 | U |
| 108-90-7 | Chlorobenzene | 23 | U |
| 100-41-4 | Ethylbenzene | 23 | U |
| 100-42-5 | Styrene | 23 | U |
| 1330-20-7 | Xylene (total) | 23 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

B179-03

Lab Name: NYTEST ENV INC  Contract: 9219048

Lab Code: NYTEST  Case No.: SH192  SAS No.: _____  SDG No.: 0929

Matrix: (soil/water) SOIL  Lab Sample ID: 1419203

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: F2921

Level: (low/med) LOW  Date Received: 09/30/92

% Moisture: 13 decanted: (Y/N) N  Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL)  Date Analyzed: 10/09/92

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y  pH: 5.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 380 | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 380 | U |
| 95-57-8 | 2-Chlorophenol | 380 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 380 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 320 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 380 | U |
| 95-48-7 | 2-Methylphenol | 380 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 380 | U |
| 106-44-5 | 4-Methylphenol | 380 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 380 | U |
| 67-72-1 | Hexachloroethane | 380 | U |
| 98-95-3 | Nitrobenzene | 380 | U |
| 78-59-1 | Isophorone | 380 | U |
| 88-75-5 | 2-Nitrophenol | 380 | U |
| 105-67-9 | 2,4-Dimethylphenol | 380 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 380 | U |
| 120-83-2 | 2,4-Dichlorophenol | 380 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 380 | U |
| 91-20-3 | Naphthalene | 380 | U |
| 106-47-8 | 4-Chloroaniline | 380 | U |
| 87-68-3 | Hexachlorobutadiene | 380 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 65 | J |
| 91-57-6 | 2-Methylnaphthalene | 380 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 380 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 920 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 380 | U |
| 91-58-7 | 2-Chloronaphthalene | 920 | U |
| 88-74-4 | 2-Nitroaniline | 380 | U |
| 131-11-3 | Dimethylphthalate | 380 | U |
| 208-96-8 | Acenaphthylene | 380 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 920 | U |
| 99-09-2 | 3-Nitroaniline | 380 | U |
| 83-32-9 | Acenaphthene | | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-03

Lab Name: NYTEST ENV INC Contract: 9219048

Lab Code: NYTEST Case No.: SH192 SAS No.: SDG No.: 0929

Matrix: (soil/water) SOIL Lab Sample ID: 1419203

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F292I

Level: (low/med) LOW Date Received: 09/30/92

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/09/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 920 | U |
| 100-02-7 | 4-Nitrophenol | 920 | U |
| 132-64-9 | Dibenzofuran | 380 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 380 | U |
| 84-66-2 | Diethylphthalate | 24 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 380 | U |
| 86-73-7 | Fluorene | 34 | J |
| 100-01-6 | 4-Nitroaniline | 920 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 920 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 380 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 380 | U |
| 118-74-1 | Hexachlorobenzene | 380 | U |
| 87-86-5 | Pentachlorophenol | 920 | U |
| 85-01-8 | Phenanthrene | 77 | J |
| 120-12-7 | Anthracene | 380 | U |
| 86-74-8 | Carbazole | 380 | U |
| 84-74-2 | Di-n-Butylphthalate | 380 | U |
| 206-44-0 | Fluoranthene | 32 | J |
| 129-00-0 | Pyrene | 49 | J |
| 85-68-7 | Butylbenzylphthalate | 380 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 380 | U |
| 56-55-3 | Benzo(a)anthracene | 380 | U |
| 218-01-9 | Chrysene | 380 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 440 | B |
| 117-84-0 | Di-n-octylphthalate | 380 | U |
| 205-99-2 | Benzo(b)fluoranthene | 380 | U |
| 207-08-9 | Benzo(k)fluoranthene | 380 | U |
| 50-32-8 | Benzo(a)pyrene | 380 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 380 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 380 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 380 | U |

0000031

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B179-03

Lab Name: NYTEST ENV INC  Contract: 9219048

Lab Code: NYTEST  Case No.: SH192  SAS No.: _____  SDG No.: 0929

Matrix: (soil/water) SOIL  Lab Sample ID: 1419203

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: F2921

Level: (low/med) LOW  Date Received: 09/30/92

% Moisture: 13  decanted: (Y/N) N  Date Extracted: 10/03/92

Concentrated Extract Volume: 500.0 (uL)  Date Analyzed: 10/09/92

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y  pH: 5.0

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 5.22 | 6600 | JAB |
| 2. | | UNKNOWN ALKANE | 7.36 | 2300 | J |
| 3. | | UNKNOWN ALKANE | 9.27 | 2200 | J |
| 4. | | UNKNOWN ALKANE | 9.50 | 1800 | J |
| 5. | | UNKNOWN ALKANE | 10.81 | 640 | J |
| 6. | | UNKNOWN ALKANE | 12.67 | 860 | J |
| 7. | | UNKNOWN | 13.84 | 910 | J |
| 8. | | UNKNOWN ALKANE | 14.20 | 730 | J |
| 9. | | UNKNOWN ALKANE | 14.52 | 530 | J |
| 10. | | UNKNOWN | 15.18 | 970 | J |
| 11. | | UNKNOWN ALKANE | 15.37 | 1100 | J |
| 12. | | UNKNOWN ALKANE | 18.36 | 710 | J |
| 13. | | UNKNOWN AROMATIC | 18.71 | 690 | J |
| 14. | | UNKNOWN AROMATIC | 18.81 | 690 | J |
| 15. | | UNKNOWN | 23.04 | 2700 | J |
| 16. | | UNKNOWN ALKANE | 26.06 | 1100 | J |
| 17. | | UNKNOWN | 36.36 | 41000 | J |
| 18. | | UNKNOWN | 37.44 | 23000 | J |
| 19. | | UNKNOWN | 38.73 | 1600 | J |
| 20. | | UNKNOWN | 42.65 | 2500 | J |
| 21. | | UNKNOWN | 43.55 | 4300 | J |

NYSDEC ASP

1

# INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

B179-3

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219408

Lab Code: 10195 Case No.: SH192 SAS No.: SDG No.: B179-1

Matrix (soil/water): SOIL Lab Sample ID: 192-03

Level (low/med): LOW Date Received: 09/30/92

Solids: 87.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2160 | | | P |
| 7440-36-0 | Antimony | 8.9 | U | | P |
| 7440-38-2 | Arsenic | 1.7 | B | | F |
| 7440-39-3 | Barium | 19.6 | B | | P |
| 7440-41-7 | Beryllium | 0.23 | U | | P |
| 7440-43-9 | Cadmium | 0.69 | U | | P |
| 7440-70-2 | Calcium | 11500 | | | P |
| 7440-47-3 | Chromium | 7.4 | | * | P |
| 7440-48-4 | Cobalt | 2.3 | B | | P |
| 7440-50-8 | Copper | 111 | | N* | P |
| 7439-89-6 | Iron | 4240 | | | P |
| 7439-92-1 | Lead | 15.3 | | | F |
| 7439-95-4 | Magnesium | 1330 | | | P |
| 7439-96-5 | Manganese | 55.6 | | | P |
| 7439-97-6 | Mercury | 0.16 | | | CV |
| 7440-02-0 | Nickel | 7.8 | B | | P |
| 7440-09-7 | Potassium | 274 | B | | P |
| 7782-49-2 | Selenium | 1.1 | U | | F |
| 7440-22-4 | Silver | 0.92 | U | | P |
| 7440-23-5 | Sodium | 73.5 | U | | P |
| 7440-28-0 | Thallium | 1.1 | U | | F |
| 7440-62-2 | Vanadium | 4.0 | B | | P |
| 7440-66-6 | Zinc | 109 | | N | P |
| 5955-70-0 | Cyanide | 0.54 | | | AS |
| | | | | | |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
B179-03

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

B179-3

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9219408

Lab Code: 10195 Case No.: SH192 SAS No.: SDG No.: B179-1

Matrix (soil/water): SOIL Lab Sample ID: 192-03

Level (low/med): LOW Date Received: 09/30/92

Solids: 87.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2160 | | | P |
| 7440-36-0 | Antimony | 8.9 | U | | P |
| 7440-38-2 | Arsenic | 1.7 | B | | F |
| 7440-39-3 | Barium | 19.6 | B | | P |
| 7440-41-7 | Beryllium | 0.23 | U | | P |
| 7440-43-9 | Cadmium | 0.69 | U | | P |
| 7440-70-2 | Calcium | 11500 | | * | P |
| 7440-47-3 | Chromium | 7.4 | | | P |
| 7440-48-4 | Cobalt | 2.3 | B | | P |
| 7440-50-8 | Copper | 111 | | N* | P |
| 7439-89-6 | Iron | 4240 | | | P |
| 7439-92-1 | Lead | 15.3 | | | F |
| 7439-95-4 | Magnesium | 1330 | | | P |
| 7439-96-5 | Manganese | 55.6 | | | P |
| 7439-97-6 | Mercury | 0.16 | | | CV |
| 7440-02-0 | Nickel | 7.8 | B | | P |
| 7440-09-7 | Potassium | 274 | B | | P |
| 7782-49-2 | Selenium | 1.1 | U | | F |
| 7440-22-4 | Silver | 0.92 | U | | P |
| 7440-23-5 | Sodium | 73.5 | U | | P |
| 7440-28-0 | Thallium | 1.1 | U | | F |
| 7440-62-2 | Vanadium | 4.0 | B | | P |
| 7440-66-6 | Zinc | 109 | | N | P |
| 5955-70-0 | Cyanide | 0.54 | | | AS |
| | | | | | |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

B179-03

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B179-03

Lab Name: NYTEST ENV INC  Contract: 9219408

Lab Code: NYTEST  Case No.: 14192  SAS No.: _____  SDG No.: _____

Matrix: (soil/water) SOIL  Lab Sample ID: 1419203

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: _____

% Moisture: 13  decanted: (Y/N) N  Date Received: 09/30/92

Extraction: (SepF/Cont/Sonc) SONC  Date Extracted: 10/03/92

Concentrated Extract Volume: 5000 (uL)  Date Analyzed: 10/20/92

Injection Volume: 1.00 (uL)  Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y  pH: 5.0  Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 2.0 | U |
| 319-85-7 | beta-BHC | 2.0 | U |
| 319-86-8 | delta-BHC | 2.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 2.0 | U |
| 76-44-8 | Heptachlor | 2.0 | U |
| 309-00-2 | Aldrin | 2.0 | U |
| 1024-57-3 | Heptachlor epoxide | 2.0 | U |
| 959-98-8 | Endosulfan I | 2.0 | U |
| 60-57-1 | Dieldrin | 2.0 | U |
| 72-55-9 | 4,4'-DDE | 3.8 | U |
| 72-20-8 | Endrin | 3.8 | U |
| 33213-65-9 | Endosulfan II | 3.8 | U |
| 72-54-8 | 4,4'-DDD | 3.8 | U |
| 1031-07-8 | Endosulfan sulfate | 3.8 | U |
| 50-29-3 | 4,4'-DDT | 3.8 | U |
| 72-43-5 | Methoxychlor | 3.8 | U |
| 53494-70-5 | Endrin ketone | 20 | U |
| 7421-36-3 | Endrin aldehyde | 3.8 | U |
| 5103-71-9 | alpha-Chlordane | 3.8 | U |
| 5103-74-2 | gamma-Chlordane | 2.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 200 | U |
| 11104-28-2 | Aroclor-1221 | 38 | U |
| 11141-16-5 | Aroclor-1232 | 77 | U |
| 53469-21-9 | Aroclor-1242 | 38 | U |
| 12672-29-6 | Aroclor-1248 | 38 | U |
| 11097-69-1 | Aroclor-1254 | 38 | U |
| 11096-82-5 | Aroclor-1260 | 44 | P |
| | | 38 | U |

0000038

# APPENDIX B

# FIELD REPORTS

FIELD REPORT

LOCATION: BOWE SYSTEC @ BOWE SYSTEM & MACHINE
200 FRANK RD.
HICKSVILLE, NY

DATE(S): 08/31/92

WEATHER: CLEAR, BREEZY, WARM

H2M REPS: MSC ARRIVED AT 09:00

CONTACTS: RICHARD REILLY @ SITE BOWE REP.

OBJECTIVE: SOIL VAPOR SURVEY AND DRYWELL SAMPLING

FIELD OBSERVATIONS AND NOTES FOR THE SOIL VAPOR SURVEY

The area of stressed vegetation adjacent to the south-western corner of the Bowe Systec building near the location of the former spray booth (please see photograph 1 located in appendix A) was the subject of an intensified soil vapor survey (SVS) conducted in conjunction with the previously executed Site Screening Investigation (SSI).

The SVS was conducted by creating a small 1/4" diameter hole to three feet below grade, with a slam bar, and monitoring the gases contained there in with a photoionization detection meter (PID). This meter will detect the presence of volatile organic contaminants (VOC's). To ensure the integrity of the testing, the meter was calibrated using 100 parts per million (ppm) ISO-$C_4H_8$/Air span (calibration) gas to 58 ppm. It should be noted that the unit displays contaminant levels in estimated parts per million (eppm).

An area 10'x10' was delineated as having readings consistently above 4.0 eppm. The readings within this area ranged from 4.8 eppm to 54 eppm (please see the site plan located in appendix B).

A soil boring was conducted with a hand auger within the area of high readings ($\geq$ 4.0 eppm) and a soil sample was retrieved from the two to three foot interval (below grade). This was submitted to H2M Labs for the following analyses: TCLP Metals, TCLP PCB's, TCLP VOC's, TPH (IR Method), and Flash point. The sample was labeled SVA-1. The area of contamination was delineated with orange tipped wooden stakes.

FIELD OBSERVATIONS AND NOTES FOR THE DRYWELL SAMPLING

A soil boring was collected with a hand auger from drywell DW-8 (please see photograph 2) at the one to two foot interval (below the bottom sediment), located in the bottom of the truck loading bay (please see photograph 3). Prior to this sampling, the hand auger had been decontaminated with a detergent and rinsed with distilled water. A soil sample from the boring was submitted to H2M Labs for: TCLP Metals, TCLP PCB's, TCLP VOC's, TPH (IR Method), and Flash point. The sample was labeled DWA-8.

The drywell was noted to be three to four feet in diameter and constructed of concrete rings. These rings are set approximately one to two feet from the base structure of the building.

The following equipment was used for both projects: one camera, six wooden stakes, one hand auger, one PID meter, one slam bar, dedicated sampling gloves, and decontamination equipment.

CERTIFIED CORRECT: DATE:

**FIELD REPORT**

| | | |
|---|---|---|
| LOCATION: | Bowe Systec<br>200 Frank Rd.<br>Hicksville, NY | |
| DATE(S): | 9/28/92 | |
| WEATHER: | Warm, Partly Cloudy | |
| H2M REPS: | MSC, RVN | |
| CONTACTS: | Richard Reilly | 8:00 Bowe |
| | Daniel Kunnecke | 8:00 Direct Environmental |
| | Jamie Asher | 9:30 NYSDEC |
| | Bob Guirillo | 9:25 NCDH |
| OBJECTIVE: | Excavation of soil located near former spray booth and clean-out of septic system | |

**FIELD OBSERVATIONS AND NOTES**

---

**Clean-out of Septic System**

The clean-out of the septic system involved the pumping of liquids contained in pools S-1,2,3, and 4 into a vac-truck. The following is a chart depicting the pump-out totals in gallons for these pools:

| | |
|---|---|
| S-1 | 3,000 |
| S-2 | Minimal |
| S-3 | Minimal |
| S-4 | Minimal |

The total volume of liquid removed from these pools equaled 3,000 gallons.

During this process the second sewer lid to the septic tank was found. Bottom soils/sludges from the pools were the excavated and stored on site in a leak proof container and mixed with a kiln-dust to procure a more viscous mass.

Confirmation samples were to have been taken from the bottom of S-1 after the clean-out but the NYSDEC could not split the samples with us so this task has been relegated to 9/29/92.

A cleanout of drywell DW-8 also occurred on this date (please refer to this sub tasks project manager's notes for further information.

**Excavation of soils near former location of spray booth**

The first four to five feet of top soils in the vicinity of the former spray booth local were removed today. Soils were first removed from the previously specified area, and then from surrounding soils. A 12'x18'x4' excavation was opened from the southwest corner of the building with the long dimension running along the fence bordering the northern excavation wall. The excavated soil from this pit was field tested with an HNu photoionization detection meter (PID) to detect for elevated levels of volatile organic compounds (VOC's). These readings, which provided results in equivalent parts per million (eppm), were used to determine when to stop excavation. The soils so removed were transfered to and stored on a large sheet of polypropylene and then covered to ensure site integrity.

The readings at the end of this final excavation were below background levels along the western, eastern, and southern sidewalls (these readings were spaced approximately three feet apart and along the vertical midline on each wall). The readings along the northern sidewall ranged from 3 eppm to 5 eppm. Excavation of this sidewall was halted when the back hoe could no longer be positioned to reach the sidewall area and when proximity to an overlying concrete pad was threatening to cave into the excavation.

Approximately 30 cubic yards of soil were generated during these efforts.

RESPECTFULLY SUBMITTED: [signature] DATE: 10/27/92

H2MGROUP

**FIELD REPORT**

LOCATION: Bowe Systec
200 Frank Rd.
Hicksville, NY

DATE(S): 9/29/92

WEATHER: Warm, Cloudy

H2M REPS: MSC, RVN

CONTACTS: Richard Reilly 9:30 Bowe
J. Asher 9:10 NYSDEC

OBJECTIVE: Take confirmatory samples from the bottoms of S-1, S-2, S-3, S-4, DW-8, and excavation pit

Doc: SVS3

**FIELD OBSERVATIONS AND NOTES**

---

Today, confirmatory samples were taken from the bottoms of septic system pools S-2, 3, 4, and from the bottom of the excavation pit. The samples from the pit and from S-2 were split with the NYSDEC.

The samples were labeled in the following manner:

| Sample Name | Location |
|---|---|
| A | Excavation pit floor |
| B | Excavation pit northern sidewall |
| C | S-2 bottom |
| D | S-3 Bottom |
| E | S-4 Bottom |

The samples from the excavation were taken using dedicated plastic gloves. Sample B was taken 18" below grade on the northern sidewall approximately along the horizontal midline of the wall.

The septic system samples were procured with a hand auger which was decontaminated and then lowered into the pool. Only one of these samples were split with the NYSDEC.

RESPECTFULLY SUBMITTED: [signature] DATE: 10/27/92

# APPENDIX C

# RECORDS OF DISPOSAL

ATHENS — HOCKING
Mailing / Address: Post Office Box 946 • Logan, Ohio 43138
Phone: 614-385-6019 or 385-553

# WASTE RECORD

To comply with OAC 3745-27-08(M), all relevant information must be provided

Date 10-12-92 Time In 10:24 Time Out

Name of Hauler HORNISH TRUCKING

Address

Telephone Driver EWS#528

License of Vehicle 92-245

Type of Waste: (circle) Residential Municipal Commercial Industrial / Asbestos

Agricultural Mining Other (specify) SOIL

Waste: Yards 10 Tons 21.92 (attach weight slip)

Waste Generator: (if commercial or residential route, note it)

Name DOME SYSTE

Address

Telephone Tipping Fees Cash Credit ✓

SOURCE OF WASTE: COUNTY HOLMES STATE OH

COMPANY TO BILL FOR TIPPING FEES EARTH WATCH

The undersigned certifies that the material disposed of at the Athens-Hocking Reclamation Center as noted above is non-hazardous solid waste as defined by the Ohio Revised Code and Ohio Administrative Code.

If the waste material has been specifically approved for acceptance at this landfill by the submission of chemical analysis or other laboratory data, it is certified that this material conforms with the samples analyzed. If the waste material is asbestos, it is certified that the material has been properly packaged, labeled, and transported, and that the hauler will hold the landfill harmless from all claims, fines or penalties imposed upon the landfill operator for and violation of law or regulations for improper transportation, packaging, labeling or handling, prior to being put into the possession of the landfill operator.

All parties disposing of any waste at this landfill agree to fully indemnify the landfill operator for any and all claims, fines or penalties, including clean up costs, engineering fees and claims of any third parties, which may be caused, either directly or indirectly, by those parties bringing in waste materials to the landfill which are not permitted to be disposed of at this facility by limitations in any landfill permits or by the Ohio Solid Waste Laws and Regulations.

**All parties disposing of any waste at the landfill or otherwise entering the premises agree to hold the landfill harmless and waive all claims for any personal injury or property damage to any vehicle or person entering the premises whether caused by an act or neglect of landfill personnel or equipment or by persons entering the landfill. This waiver will not discharge any intentional torts by landfill personnel.**

M H Ballinger

Landfill Representative

031945

# ATHENS HOCKING RECLAMATION CENTER

Location: U.S. Rt. 33 North, Nelsonville, Ohio 45764
Mailing Address:
Post Office Box 648, Logan, Ohio 43138

Number 021745 Date 10-12-92

| IDENTIFICATION | WEIGHT |
|---|---|
| | 78920 lbs. Gross |
| | 34940 lbs. Tare |
| | 43940 lbs. Net |
| 92-345 | 21.97 |

Commodity _____ @ _____ per lb.

Remarks: _____ Driver: On ☐ Off ☐

_____ Load No. _____

_____ Weigher _____

Shipper: _____

Seller
Buyer _____

Address _____

Mailing Address: Post Office Box [illegible]
Phone: 614-385-6019 or 385-5531

# WASTE RECORD

To comply with OAC 3745-27-08(M), all relevant information must be provided

Date 10-9-92 Time In 8:11 Time Out

Name of Hauler HOLWETH TRUCKING

Address

Telephone Driver

License of Vehicle 92-345

Type of Waste: (circle) Residential Municipal Commercial Industrial Asbestos
Agricultural Mining Other (specify) SOIL

Waste: Yards 15 Tons 12.54 (attach weight slip)

Waste Generator: (if commercial or residential route, note it) FWS 522

Name BOWE STATE

Address

Telephone Tipping Fees Cash Credit ✓

SOURCE OF WASTE: COUNTY HOCKINGVILLE STATE N.Y.

COMPANY TO BILL FOR TIPPING FEES EARTHWATCH

The undersigned certifies that the material disposed of at the Athens-Hocking Reclamation Center as noted above is non-hazardous solid waste as defined by the Ohio Revised Code and Ohio Administrative Code.

If the waste material has been specifically approved for acceptance at this landfill by the submission of chemical analysis or other laboratory data, it is certified that this material conforms with the samples analyzed. If the waste material is asbestos, it is certified that the material has been properly packaged, labeled, and transported, and that the hauler will hold the landfill harmless from all claims, fines or penalties imposed upon the landfill operator for and violation of law or regulations for improper transportation, packaging, labeling or handling, prior to being put into the possession of the landfill operator.

All parties disposing of any waste at this landfill agree to fully indemnify the landfill operator for any and all claims, fines or penalties, including clean up costs, engineering fees and claims of any third parties, which may be caused, either directly or indirectly, by those parties bringing in waste materials to the landfill which are not permitted to be disposed of at this facility by limitations in any landfill permits or by the Ohio Solid Waste Laws and Regulations.

**All parties disposing of any waste at the landfill or otherwise entering the premises agree to hold the landfill harmless and waive all claims for any personal injury or property damage to any vehicle or person entering the premises whether caused by an act or neglect of landfill personnel or equipment or by persons entering the landfill. This waiver will not discharge any intentional torts by landfill personnel.**

Landfill Representative

031841

**ATHENS HOCKING RECLAMATION CENTER**
Location: U.S. Rt. 33 North, Nelsonville, Ohio 45764
Mailing Address:
Post Office Box 948, Logan, Ohio 43138

Number 071841 Date 10-9-92

| IDENTIFICATION | WEIGHT |
|---|---|
| | 71560 lbs. Gross |
| | 46480 lbs. Tare |
| | 25080 lbs. Net |
| 92-345 | 12.54 |

Commodity _____ @ _____ per lb.

Remarks: _____ Driver: On ☐ Off ☐

_____ Load No. _____

_____ Weigher _____

Shipper _____

Seller
Buyer _____

Address _____

ATHENS ...
Mailing Address: Post Office Box 946 • Logan, Ohio 43138
Phone: 614-385-6019 or 385-5531

FEDE
EWS

# WASTE RECORD

OK

To comply with OAC 3745-27-08(M), all relevant information must be provided

Date 10-8-97 Time In 11:17 Time Out

Name of Hauler HOCKING TRUCKING

Address

Telephone Driver

License of Vehicle 92-345

Type of Waste: (circle) Residential Municipal Commercial Industrial Asbestos

Agricultural Mining Other (specify) SOIL

Waste: Yards 11 Tons 22.5 (attach weight slip)

Waste Generator: (if commercial or residential route, note it)

Name BOWE EXXXXD EWS 528

Address

Telephone Tipping Fees Cash Credit

SOURCE OF WASTE: COUNTY HOCKING STATE OHIO

COMPANY TO BILL FOR TIPPING FEES Athens EXXXXWATER

The undersigned certifies that the material disposed of at the Athens-Hocking Reclamation Center as noted above is non-hazardous solid waste as defined by the Ohio Revised Code and Ohio Administrative Code.

If the waste material has been specifically approved for acceptance at this landfill by the submission of chemical analysis or other laboratory data, it is certified that this material conforms with the samples analyzed. If the waste material is asbestos, it is certified that the material has been properly packaged, labeled, and transported; and that the hauler will hold the landfill harmless from all claims, fines or penalties imposed upon the landfill operator for and violation of law or regulations for improper transportation, packaging, labeling or handling, prior to being put into the possession of the landfill operator.

All parties disposing of any waste at this landfill agree to fully indemnify the landfill operator for any and all claims, fines or penalties, including clean up costs, engineering fees and claims of any third parties, which may be caused, either directly or indirectly, by those parties bringing in waste materials to the landfill which are not permitted to be disposed of at this facility by limitations in any landfill permits or by the Ohio Solid Waste Laws and Regulations.

**All parties disposing of any waste at the landfill or otherwise entering the premises agree to hold the landfill harmless and waive all claims for any personal injury or property damage to any vehicle or person entering the premises whether caused by an act or neglect of landfill personnel or equipment or by persons entering the landfill. This waiver will not discharge any intentional torts by landfill personnel.**

Ted Samuel

Landfill Representative

031801

**ATHENS HOCKING RECLAMATION CENTER**
Location: U.S. Rt. 33 North, Nelsonville, Ohio 45764
Mailing Address:
Post Office Box 946, Logan, Ohio 43138

Number 031801 Date 10-8-92

IDENTIFICATION

WEIGHT

97800 lbs. Gross

32800 lbs. Tare

45000 lbs. Net

92-745 22.5

Commodity _____ @ _____ per lb.

Remarks: _____ Driver: On ☐ Off ☐

_____ Load No. _____

_____ Weigher _____

Shipper _____

Seller
Buyer _____

Address _____

ATHENS — HOCKING RECLAMATION CE
Mailing Address: Post Office Box 946 • Logan Ohio 43138
Phone: 614-385-6019 or 385-5531

# WASTE RECORD

To comply with OAC 3745-27-08(M), all relevant information must be provided

Date 10-8-92 Time In 11:20 Time Out

Name of Hauler HOWARTH TRUCKING

Address

Telephone Driver

License of Vehicle 92-345

Type of Waste: (circle) Residential Municipal Commercial Industrial Asbestos

Agricultural Mining Other (specify) SOIL

Waste: Yards 11 Tons 23.52 (attach weight slip) EWS 528

Waste Generator: (if commercial or residential route, note it)

Name ROWE SYSTEM

Address

Telephone Tipping Fees Cash Credit ✓

SOURCE OF WASTE: COUNTY HIGHLAND STATE OHIO

COMPANY TO BILL FOR TIPPING FEES EARTHWATCH

The undersigned certifies that the material disposed of at the Athens-Hocking Reclamation Center as noted above is non-hazardous solid waste as defined by the Ohio Revised Code and Ohio Administrative Code.

If the waste material has been specifically approved for acceptance at this landfill by the submission of chemical analysis or other laboratory data, it is certified that this material conforms with the samples analyzed. If the waste material is asbestos, it is certified that the material has been properly packaged, labeled, and transported, and that the hauler will hold the landfill harmless from all claims, fines or penalties imposed upon the landfill operator for and violation of law or regulations for improper transportation, packaging, labeling or handling, prior to being put into the possession of the landfill operator.

All parties disposing of any waste at this landfill agree to fully indemnify the landfill operator for any and all claims, fines or penalties, including clean up costs, engineering fees and claims of any third parties, which may be caused, either directly or indirectly, by those parties bringing in waste materials to the landfill which are not permitted to be disposed of at this facility by limitations in any landfill permits or by the Ohio Solid Waste Laws and Regulations.

**All parties disposing of any waste at the landfill or otherwise entering the premises agree to hold the landfill harmless and waive all claims for any personal injury or property damage to any vehicle or person entering the premises whether caused by an act or neglect of landfill personnel or equipment or by persons entering the landfill. This waiver will not discharge any intentional torts by landfill personnel.**

Landfill Representative

031802

**ATHENS HOCKING RECLAMATION CE R**

Location: U.S. Rt. 33 North, Nelsonville, Ohio 45764
Mailing Address:
Post Office Box 648, Logan, Ohio 43138

Number 031802 Date 10-8-92

IDENTIFICATION

WEIGHT

79680 lbs. Gross

32640 lbs. Tare

47040 lbs. Net

92-345 23.52

Commodity _____ @ _____ per lb.

Remarks: _____ Driver: On ☐ Off ☐

_____ Load No. _____

_____ Weigher _____

Shipper _____

Seller
Buyer _____

Address _____

DEPARTMENT OF PUBLIC WORKS
Nassau County, N.Y.

H 50429

**CESSPOOL WASTES DISPOSAL RECEIPT**

Collector: Name BOWE SYSTEMS

Address: 20 SOUTH ST WEST BABYLON

Capacity of Tank in Gallons 4000

Permit No. 41 License No. WW-2404-H Date SEP 8 1992

Plant Attendant [signature] (SIGNATURE)

Driver ERIC HELMECKE (SIGNATURE)

The above form is to be made out in duplicate for each load. One copy to be given to the collector for his record, and one copy for plant record.

BOWE SYSTEMS

20 SOUTH FRANKLIN RD

HICKSVILLE

SEP 8 1992

# APPENDIX D

## NCDH APPROVED METHOD FOR ABANDONING SEPTIC SYSTEM

# NCDH CESSPOOL CLOSURE PROCEDURES

1. CESSPOOL:

   a. Remove sludges and soils from the cesspool until a condition of visibly clean is achieved. It is usually necessary to remove the dome in order to effectively clean out the bottom of the cesspool.

   b. Test and dispose the sludges and soils in compliance with NYSDEC and/or USEPA requirements and standards.

   c. Sample soils from the bottom of the cesspool after clean up (See Section 3).

   d. Based on visual observations during closure activities and/or sample analyses, NCDH reserves the right to require removal of the cesspool (concrete rings or blocks) and any additional contaminated material.

   e. Cesspool must be filled with clean inert material and sealed with six (6) inches of concrete or asphalt.

2. WASTE STORAGE:

   a. Any sludge or liquid not immediately moved off site must be stored in either a properly labeled DOT approved 55 gallon drum or a sealed roll-off container.

   b. Soil which is stockpiled on site must be placed on and securely covered by a heavy gauge plastic liner.

   c. Strict adherence to time limits for storage of industrial/hazardous wastes must be followed.

3. SAMPLING AND LABORATORY ANALYSIS:

   a. NCDH reserves the right to split any or all samples.

   b. Sampling and analysis must be in accordance with EPA quality assurance and quality control (QA/QC) guidelines.

   c. Sample analysis must be performed by a New York State certified laboratory.

d. Sample analysis of end point soils must include the following parameters:

1. Total Petroleum Hydrocarbons (EPA Method 418.1)
2. Total Analysis for RCRA Metals
3. Volatile Halogenated Organic Compounds and Volatile Aromatic Compounds specified in Appendix A

e. Copies of the sample analyses must be forwarded to NCDH within 5 working days of receipt by responsible party.

4. REMEDIAL INVESTIGATION:

a. If clean-up of the site to ambient soil and/or groundwater conditions cannot be achieved via excavation, NCDH reserves the right to require an investigation to define vertical and areal contamination with the goal of implementing an acceptable plan of remediation in a timely manner.

b. Copies of disposal receipts or manifests must be forwarded to NCDH within 5 working days of receipt by responsible party.

TMK:fn
#6996K

# NCDOT BAY DRAIN AND DRY WELL CLOSURE PROCEDURES

Appendix A-Sample analysis for Volatile Organics must include the following parameters:

ACETONE
BENZENE
TOLUENE
CHLOROBENZENE
ETHYLBENZENE
o-XYLENE

m,p-XYLENE
STYRENE
n-PROPYLBENZENE
ISOPROPYLBENZENE
BROMOBENZENE

1,2,4-TRIMETHYLBENZENE
1,3,5-TRIMETHYLBENZENE
2-CHLOROTOLUENE
4-CHLOROTOLUENE
n-BUTYLBENZENE

sec-BUTYLBENZENE
tert-BUTYLBENZENE
p-ISOPROPYLTOLUENE
o-DICHLOROBENZENE
m-DICHLOROBENZENE

p-DICHLOROBENZENE
1,2,3-TRICHLOROBENZENE
1,2,4-TRICHLOROBENZENE
HEXACHLOROBUTADIENE
NAPHTHALENE

VINYL CHLORIDE
TRICHLOROFLUOROMETHANE
1,1-DICHLOROETHYLENE
METHYLENE CHLORIDE
t-1,2-DICHLOROETHYLENE

1,1-DICHLOROETHANE
2,2-DICHLOROPROPANE
c-1,2-DICHLOROETHYLENE
CHLOROFORM
BROMOCHLOROMETHANE

1,1,1-TRICHLOROETHANE
1,1-DICHLOROPROPENE
CARBON TETRACHLORIDE
1,2-DICHLOROETHANE
TRICHLOROETHYLENE

1,2-DICHLOROPROPANE
BROMODICHLOROMETHANE
DIBROMOMETHANE
c-1,3-DICHLOROPROPENE
t-1,3-DICHLOROPROPENE

1,1,2-TRICHLOROETHANE
1,3-DICHLOROPROPANE
TETRACHLOROETHYLENE
DIBROMOCHLOROMETHANE
1,2-DIBROMOETHANE

1,1,1,2-TETRACHLOROETHANE
BROMOFORM
1,1,2,2-TETRACHLOROETHANE
1,2,3-TRICHLOROPROPANE
1,2-DIBROMO-3-CHLOROPROPANE