RCRA CLOSURE REPORT

FOR

HAZELTINE CORPORATION

CUBA HILL ROAD
GREENLAWN, NEW YORK

EPA I.D. NO. NYD002041242

JULY 23, 1993

H2MGROUP
HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS
MELVILLE, N.Y. TOTOWA, N.J.

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1.0 SCOPE

This Closure Report is submitted in accordance with the facility's approved Closure Plan. By engaging in closure and submitting this Closure Report Hazeltine Corporation does not concede that the closed facility was a hazardous waste management facility subject to 6 NYCRR Part 373

Hazeltine's Greenlawn, New York facility is located on Cuba Hill Road just north of Pulaski Road (County Road 11) in the Town of Huntington, Suffolk County (see Figure 1, Location Map).

2.0 CLOSURE ACTIVITIES

Hazeltine prepared and submitted to the New York State Department of Environmental Conservation (NYSDEC) a Closure Plan for its hazardous waste management units which Plan was approved by NYSDEC by letter dated August 31, 1988. In response to a request of Ms. Agnes Gara of NYSDEC, the plan was subsequently revised in February 1990. A copy of Hazeltine's Closure Plan is provided in Appendix A.

In the fall of 1990, Hazeltine contracted with the consulting firm Radian Corporation, Herndon, Virginia, to implement the Closure Plan. Radian subcontracted the actual closure work to Enroserve, Inc. Farmingdale, New York. Radian personnel were on site throughout the

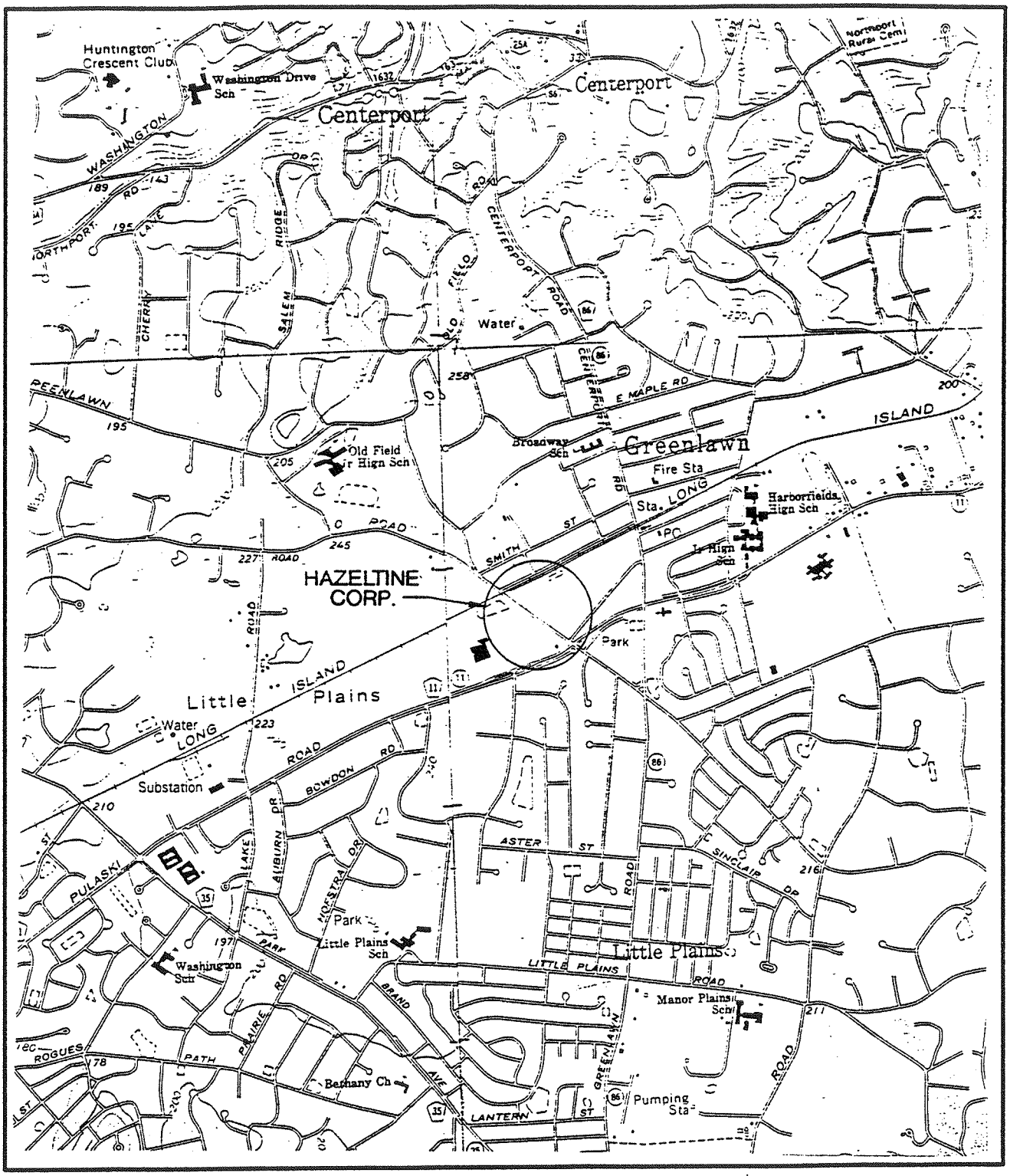

FIGURE 1
LOCATION MAP
HAZELTINE CORPORATION
GREENLAWN, NEW YORK
SCALE: 1" = 2000'

closure to provide technical direction and ensure that all work was conducted in accordance with the Closure Plan.

For reasons unrelated to the closure, Hazeltine replaced Radian with H2M. The closure activities described in this Closure Report are based upon Radian's daily field notes and draft summary report, discussions with James Zimmerman, Radian's Project Director, discussions with present and former Hazeltine employees directly involved in the closure, a review of post-closure sample analyses and a visual inspection of the closed facilities.

2.1 Tank Closure

All three of Hazeltine's underground waste tanks (Tanks A, B and C) were constructed similarly with cylindrical precast concrete rings. Each tank included an inner PVC liner with approximately 4 to 6 inches of sand between the liner and bottom of the tank. Each had an 8 inch precast concrete slab top with a 24-inch diameter manway and cast iron manhole cover. All three were set with the top of the tank approximately two feet below grade. Tank A was 6 feet deep with an inside diameter of 9 feet 4 inches. Tanks B and C were both 10 feet deep with an inside diameter of 9 feet 4 inches, and were interconnected with a 12-inch diameter PVC pipe approximately 4 foot long set near the bottom of each. The location of each tank is shown in Figure 2, Partial Facility Plan. Construction details are shown in Figure 3, Tank Schematics.

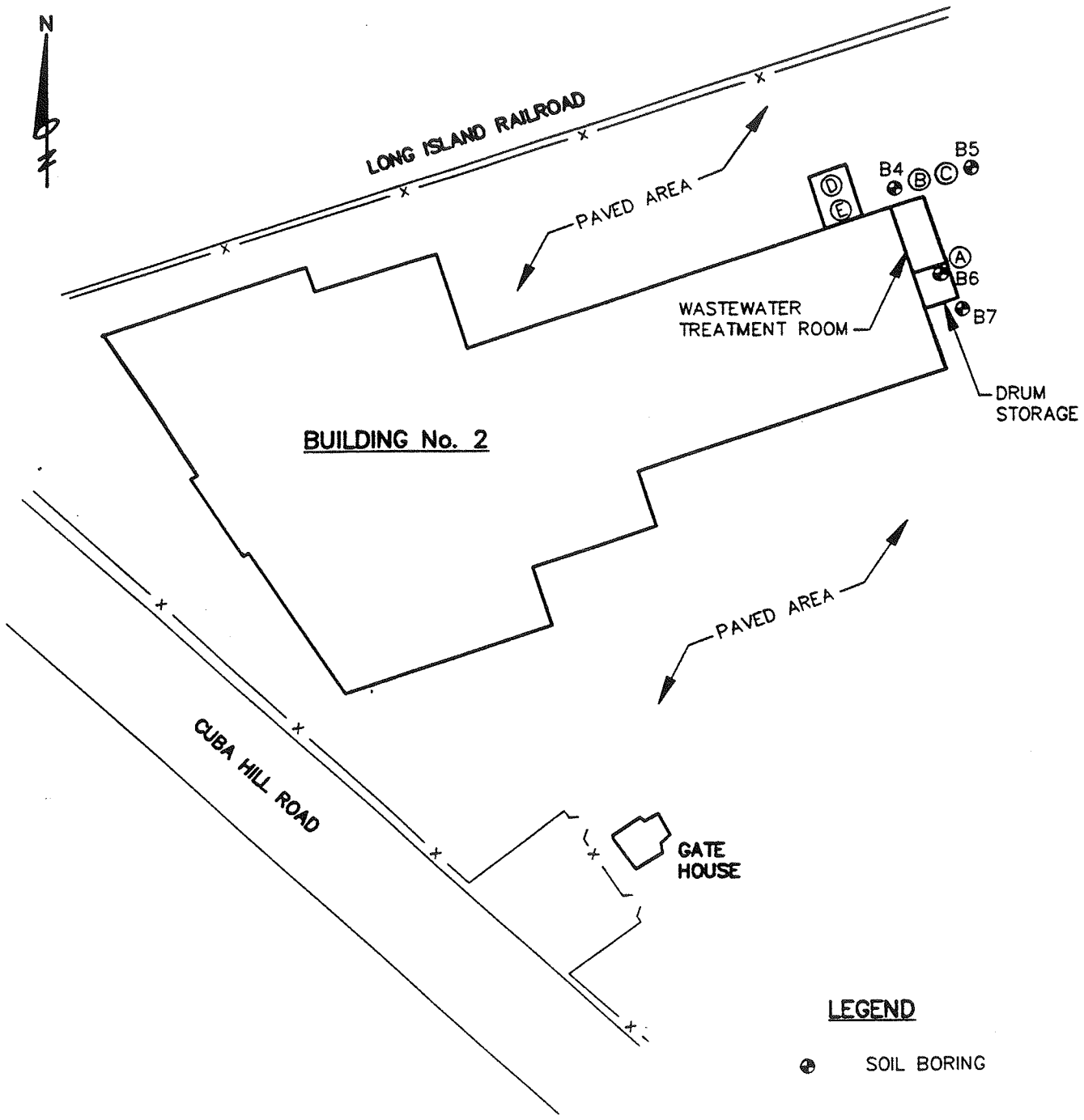

FIGURE 2

PARTIAL FACILITY PLAN

HAZELTINE CORPORATION
GREENLAWN, NEW YORK

NO SCALE

HAZL 92-04 CC (HAZLFIG2.DWG)

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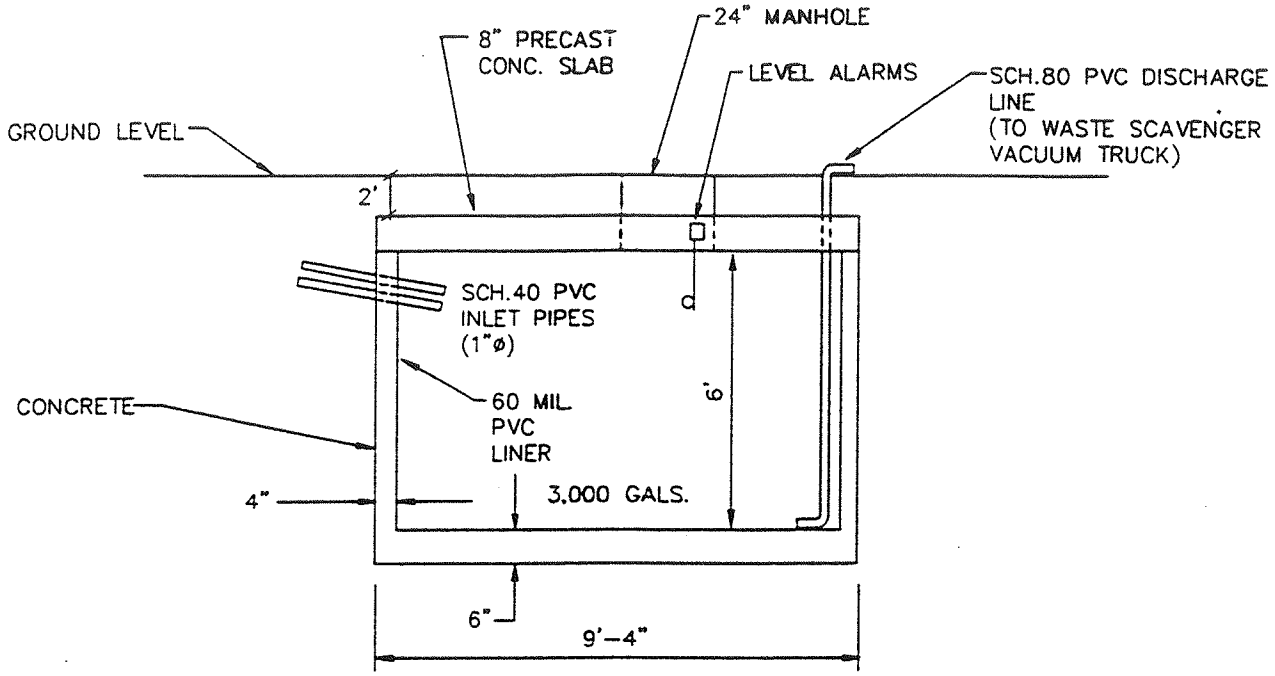
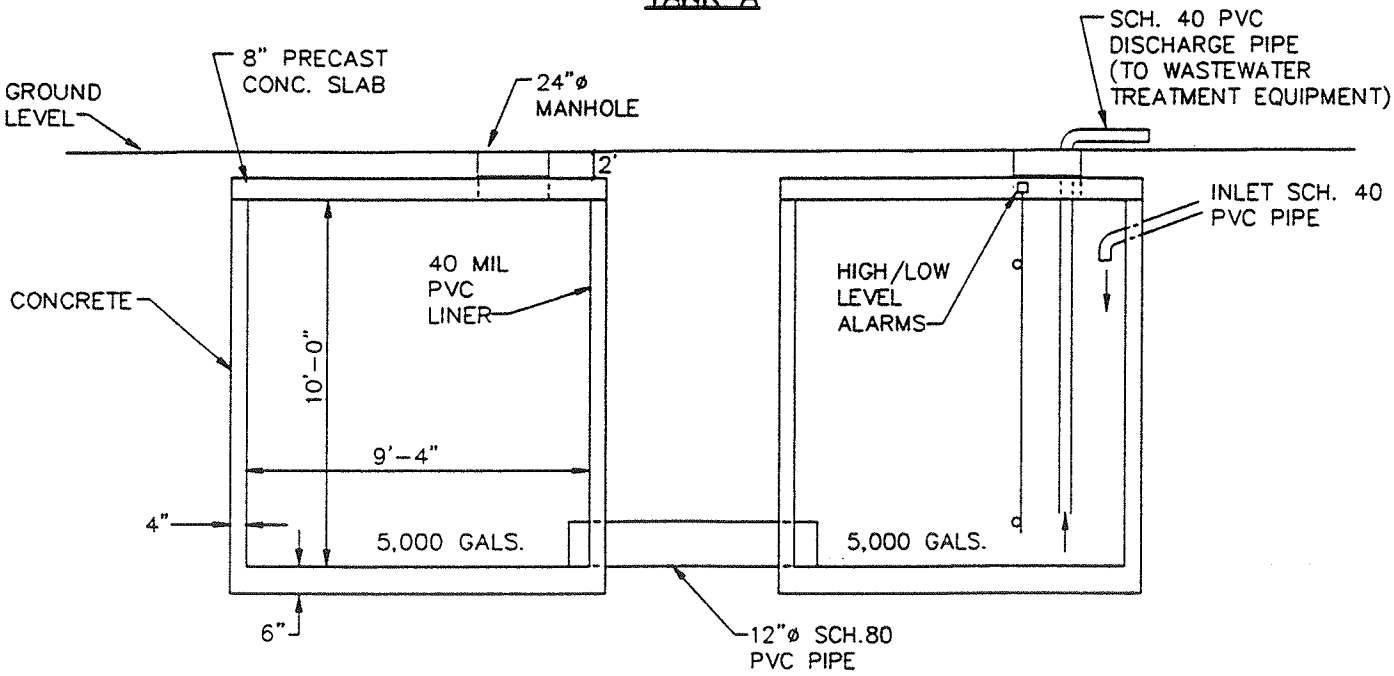


TANK A



TANKS B & C

FIGURE 3
TANK SCHEMATIC
HAZELTINE CORPORATION
GREENLAWN, NEW YORK
NO SCALE

Closure work began on November 12, 1990 with the emptying and cleaning of Tank B. Approximately 500 gallons of liquid were pumped from Tank B to Tank E. Once empty, Enroserve personnel entered the tank to pressure wash the tank's PVC liner. Wastewater generated by pressure washing was collected and transferred to Tank E. Tank C was pumped and cleaned in the same manner.

After the inside of Tanks B and C were cleaned, the inner PVC liners were inspected. No holes or tears were observed in the liners of either tanks. The liners were then cut into manageable sections, removed from the tanks and placed into 55 gallon drums. The sand between the PVC liners and tank bottoms was removed from the tanks and placed into 55 gallon drums.

Excavation of Tank B began on November 13, 1990 with the removal of asphalt paving and 2 feet of soil, covering the top of the tank. Due to its size and concrete construction, Enroserve was unable to remove the tank as a unit. On November 14, 1990, the tank was broken up in place and removed in pieces. Tank C was removed in the same manner. Air quality in and around the excavation was monitored using a flame ionization detector (FID), photoionization detector (PID) and Draeger tubes (for cyanide). No elevated readings were observed during the excavation work.

5. Concrete rubble/remains of Tanks A, B and C: 15 cubic yards,
6. Wastewaters generated by pressure washing the wastewater treatment room and evaporator unit: 6-55 gallon drums, and
7. Miscellaneous decon solids (e.g., Tyveks): 2-55 gallon drums.

All hazardous and non-hazardous wastes were properly disposed of off site at licensed facilities. Copies of the waste manifests are provided in Appendix B.

4.0 SAMPLNG AND ANALYSES

As indicated in Hazeltine's Closure Plan, four soil borings were proposed to confirm that the soils beneath the facility's hazardous waste management units were not contaminated. This soil boring program was conducted concurrently with a field investigation unrelated to the RCRA closure in May 1990. Soil borings B4, B5 and B6 were located adjacent to Tanks B, C and A respectively. Soil boring B7 was located adjacent to the former drum storage area to check for potential impacts which may have resulted from surface runoff. The approximate location of each soil boring is shown in Figure 2, Partial Facility Plan.

Each boring was advanced to a depth of 25 feet with continuous split spoon samples. The split spoon soil samples were screened using an organic vapor analytical (OVA) to select appropriate samples for lab analyses. A minimum of two samples from each boring were submitted for lab analyses. Each sample was analyzed for target analyte list (TAL) metals,

target compound list (TCL) volatile organics and cyanide. One duplicate sample was collected at soil boring B7.

Results of those soil analyses are summarized in Tables 1 and 2, Soil Boring Analyses. For volatile organics, only those parameters which were detected in one or more samples were included in Table 2. Also indicated in Tables 1 and 2, are Recommended Soil Cleanup Objectives (RSCOs) for each contaminant (ref. NYSDEC Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels, November 16, 1992). These RSCOs are presented for comparison purposes only, and are not intended to infer that remedial actions are warranted.

As indicated in Table 1, several metals exceeded their respective specific numerical (as opposed to site background) RSCOs in boring B4 (5 to 7 feet below grade). The same was true for cadmium and iron at boring B6 (5 to 7 feet below grade), chromium and iron at boring B7 (3 to 7 feet below grade), and iron at boring B5 (11 to 13 feet below grade). However, the concentration of these metals dropped significantly at greater depth. The only volatile organic compounds detected in the borings were methylene chloride, acetone and tetrachloroethene. All were detected at levels below their respective RSCOs. It also should be noted that methylene chloride was detected in the trip blanks and both methylene chloride and acetone were detected in the field blanks.

TABLE 1

SOIL BORING ANALYSES [1]
METALS AND CYANIDE

SAMPLE NUMBER	*B4-B*	*B4-I*	*B5-F*	*B5-K*	*B6-D*	*B6-K*	*B7 A/B [2]*	*B7 B/A*	*B7-C*	*B7-J*	*RECOMMENDED SOIL*
SAMPLE DEPTH	*(5-7)*	*(19-21)*	*(11-13)*	*(23-25)*	*(5-7)*	*(23-25)*	*(3-7)*	*(3-7)*	*(11-13)*	*(23-25)*	*CLEANUP OBJECTIVES [3]*
ALUMINUM	14600	922	556	424	2160	432	1260	5000	520	437	SB
ANTIMONY	<8.9 N	<8.2 N	<8.0 N	<8.1 N	<8.0 N	<8.1 N	<8.1 N	<8.1 N	<8.2 N	<8.3 N	SB
ARSENIC	11.6	1.2 B	<0.61	0.77 B	1.4 BW	<0.62	0.66 B	<0.62	<0.63	<0.64 W	7.5 or SB
BARIUM	40.8 B	5.9 B	3.0 B	2.7 B	10.9 B	3.4 B	3.7 B	39.7 B	2.4 B	1.8 B	300 or SB
BERYLLIUM	0.48 B	<0.21	<0.20	<0.21	<0.21	<0.21	<0.21	0.24 B	<0.21	<0.21	1.0 or SB
CADMIUM	<1.1	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.1	<1.1	1.0 or SB
CALCIUM	589 B	75.0 B	39.8 B	38.2 B	275 B	52.8 B	152 B	111 B	19.8 B	11.8 B	SB
CHROMIUM	15.7	7.0	<1.4	5.6	4.0	<1.4	2.6	12.4	<1.5	<1.5	10 or SB
COBALT	6.9 B	<1.5	<1.4	<1.4	2.0 B	<1.4	<1.5	4.6 B	<1.5	<1.5	30 or SB
COPPER	20.5	13.8	1.6 B	4.2 B	3.5 B	5.8	4.1 B	4.7 B	2.4 B	3.0 B	25 or SB
IRON	16500	2860	2240	2090	3290	1170	2190	8290	1310	957	2,000 or SB
LEAD	19.3 S*	1.1 *	<0.41 *	0.51 B*	2.0 *	<0.41 W*	1.0	0.99	0.70	0.68	30 or SB
MAGNESIUM	1830	277 B	152 B	124 B	632 B	110 B	312 B	2710	169 B	106 B	SB
MANGANESE	250	69.0	38.7	18.1	65.0	23.2	39.8	100	30.5	17.2	SB
MERCURY	0.35 N	<0.10 N	<0.10 N	<0.10 N	<0.10 N	<0.10 N	<0.10	<0.10	<0.11	<0.11	0.1
NICKEL	9.3	<7.1	<7.0	<7.0	<7.0	<7.0	<7.1	<7.1	<7.1	<7.3	13 or SB
POTASSIUM	<909	<831	<813	<821	<816	<823	<824	2570	<835	<849	SB
SELENIUM	<2.3 WN	<0.42 WN	<0.41 WN	<0.41 WN	<0.41 WN	<0.41 WN	<0.41 WN	<0.42 WN	<0.42 WN	<0.43 N	2 or SB
SILVER	<0.92	<0.84	<0.82	<0.83	<0.82	<0.83	<0.83	<0.83	<0.84	<0.85	SB
SODIUM	<58.1	<53.1	<51.9	<52.5	<52.2	<52.6	<52.7	<52.8	<53.4	<54.3	SB
THALLIUM	<0.69	<0.63	<0.61	<0.62	<0.62	<0.62	<0.62	<0.62	<0.63	<0.64	SB
VANADIUM	25.2	4.3 B	1.4 B	3.7 B	5.6 B	1.9 B	2.3 B	15.6	1.4 B	<1.1	150 or SB
ZINC	30.8	13.8	9.4	2.9 B	10.4	4.0 B	9.4	19.0	4.3	3.6 B	20 or SB
CYANIDE	<0.57	<0.52	0.92	<0.52	<0.51	<0.52	<0.52	<0.52	<0.53	<0.53	N/A

NOTES:

[1] All results in mg/kg

[2] Duplicate sample

[3] NYSDEC Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels

N/A = Not available

SB = Site background

< = Less than the specified instrument detection limit (IDL)

* = Duplicate analyses not within control limit

B = Less than Contract Required Detection Limit (CRDL) but greater than instrument detection limit (IDL)

N = Spike sample recovery not within control limit

S = Calculated by Method of Standard Additions

W = The post digest spike for Furnace AA analyses is outside of the 85-100% control limit, while sample absorbence is less than 50% of the spike absorbence

TABLE 2

SOIL BORING ANALYSES [1]
VOLATILE ORGANIC COMPOUNDS

SAMPLE NUMBER	*B4-B*	*B4-I*	*B5-F*	*B5-K*	*B6-D*	*B6-K*	*B7-A/B*	*B7-B/A [2]*	*B7-C*	*B7-J*	*RECOMMENDED SOIL*
SAMPLE DEPTH	*(5-7)*	*(19-21)*	*(11-13)*	*(23-25)*	*(7-9)*	*(23-25)*	*(3-7)*	*(3-7)*	*(11-13)*	*(23-25)*	*CLEANUP OBJECTIVES [3]*
METHYLENE CHLORIDE	0.018 B	0.011 B	0.009 B	0.039 B	0.031 B	0.042 B	0.016 B	0.010 B	0.023 B	0.028 B	0.100
ACETONE	0.016 B	0.013 B	<0.010	0.057 B	0.036 B	0.043 B	0.007 BJ	0.008 BJ	0.011 B	0.014 B	0.200
TETRACHLOROETHENE	0.005 J	<0.005	<0.005	<0.005	0.087	0.006	<0.005	<0.005	<0.005	<0.006	1.400
TOTAL VOCs	0.039	0.024	0.009	0.096	0.154	0.091	0.023	0.018	0.034	0.042	<10.0

NOTES:

[1] All results in mg/kg
[2] Duplicate sample
[3] NYSDEC Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels

< = Less than the specified instrument detection limit (IDL)
B = Analyte found in the associated blank as well as in the sample. Indicated possible/probable blank contamination and warns the data user to take appropriate action
J = Indicates an estimated value

Analyses of the soil boring samples were conducted by CompuChem Laboratories, Research Triangle Park, North Carolina. Copies of CompuChem's lab reports (without QA/QC package) are provided in Appendix C.

In addition to the above soil borings and as indicated in Section 2.1 of this Closure Report, at the request of SCDHS, soil samples were also collected from beneath Tanks A, B and C to confirm that there had been no release of hazardous constituents from the three tanks. Each such soil sample was analyzed for TCLP metal and volatile organics. Analyses of these samples were conducted by York Laboratories, Monroe, Connecticut. A copy of York Laboratories' Sample Data Summary Package is provided in Appendix C.

A summary of the metals analyses of those samples is presented in Table 3, TCLP Metals. As indicated in Table 3, all sample results were well below EPA's TCLP hazardous waste regulatory levels in 40 CFR 261.24 (1992), which are being cited only for comparison purposes. Indeed, arsenic, cadmium, mercury and selenium were non-detectable in all three samples. Barium was detected in all three samples at concentrations well below the groundwater effluent standard of 2.0 mg/l (ref. 6 NYCRR 703.6, Table 3).

TABLE 3

TCLP METALS*

PARAMETER	TANK A	TANK B	TANK C	HAZ. WASTE REGULATORY LEVELS	CLASS GA GROUNDWATER EFFLUENT STDS.
Arsenic	<0.029	<0.029	<0.029	5.0	0.05
Barium	0.094	0.204	0.187	100.0	2.0
Cadmium	<0.002	<0.002	<0.002	1.0	0.02
Chromium	0.022	0.005	0.004	5.0	0.10**
Lead	0.063	<0.017	<0.017	5.0	0.05
Mercury	<0.002	<0.002	<0.002	0.2	0.004
Selenium	<0.045	<0.045	<0.045	1.0	0.04
Silver	0.003	<0.003	0.004	5.0	0.10

**All results presented in mg/l*

*** Class GA Effluent Standard is for hexavalent chromium*

Although total chromium was detected in all three samples, the concentrations were below the groundwater effluent standard of 0.1 mg/l for hexavalent chromium. It should be noted that the soil samples were analyzed for total chromium as opposed to hexavalent chromium. Since hexavalent chromium is a component of total chromium analyses, hexavalent chromium concentrations can not be greater than the reported results for total chromium. It should also be noted that the total chromium results were below the Class GA Water Quality Standard of 0.05 mg/l (ref. 6 NYCRR Part 703.5, Table 1). Silver was detected in two of three (Tanks A and C) samples at concentrations well below the groundwater effluent standard of 0.1 mg/l. Silver was non-detectable in the sample collected at Tank B. Lead was detected only in the sample collected from beneath Tank A. Although the lead concentration at Tank A (0.063 mg/l) exceeded the groundwater effluent standard of 0.050 mg/l, it should be noted that the depth to groundwater is approximately 175 feet.

Upon reviewing the TCLP lab results from the tank closure, SCDHS asked that total metal analyses for chromium and lead be performed on the sample collected from the excavation at Tank A. Total chromium was detected at 12.3 mg/kg and total lead at 8.4 mg/kg. These results compare favorably with NYSDEC's specific numerical RSCOs of 10 mg/kg for chromium and 30 mg/kg for lead.

Volatile organic compounds were non-detectable in the samples collected from beneath Tanks B and C. At Tank A, the only volatile organic compound detected was tetrachloroethene at 0.011 mg/l. At present, there is no specific groundwater effluent standard for tetrachloroethene. However, the Class GA water quality standard for principal organic contaminants is 0.005 mg/l. In any event, the depth to groundwater is approximately 175 feet.

In conclusion, there is no evidence that any hazardous waste was ever disposed of at the area that was the subject of the above closure. Moreover, the substances that were detected were at low concentrations and neither presently constitute a significant threat to the environment nor would be reasonably forseeable to ever constitute a significant threat to the environment.

Respectfully submitted,

HOLZMACHER, McLENDON & MURRELL, P.C.

Gary J. Miller, P.E.

July 23, 1993

GJM/cdr

STATE OF NEW YORK
GARY J. MILLER
7/23/93
No. 066131
LICENSED PROFESSIONAL ENGINEER

H2MGROUP

APPENDIX A

CLOSURE PLAN

CLOSURE PLAN

EPA ID. No. NYD002041242

Hazeltine Corporation
Cuba Hill Road
Greenlawn, NY 11740
January 15, 1988
Revised: February 28, 1990

1.0 Introduction

The following is Hazeltine Corporation's Closure Plan for EPA ID No. NYD002041242. The facility has been an inactive TSDF since 1984 and is seeking reclassification as a non-TSDF through implementation of this plan.

2.0 Facility Description

Hazeltine Corporation is a leading manufacturer of electronic communication components for military applications. Five buildings (#1-5) exist at this site with the predominance of hazardous waste generation accumulation occurring at Building #2.

Building #2 operations have included a former small printed circuit board plating shop (copper, tin/lead, nickel, and gold plating), and a current metal finishing area (conversion coating, deburring, and painting).

Spent chemical baths were previously accumulated in a 3000-gallon underground holding tank (Tank A) which was pumped regularly by a licensed scavenger (<90-day accumulation) for off-site treatment. The contents were manifested as Waste Corrosive Liquid NOS (D002). Currently, all spent baths are accumulated in an above ground, bermed 4500-gallon tank (Tank D) (<90-day accumulation) and manifested off-site as Hazardous Liquid NOS (F019). Tank A was emptied and is out-of-service until closure is performed.

Rinsewater generated in Building #2 was previously piped into two 5000- gallon underground equalization tanks (Tanks B and C). This non-hazardous stream was neutralized, fed through an evaporator, and the resulting concentrated residue was also accumulated in Tank A for off-site treatment. Currently, this non-hazardous rinsewater is accumulated in an above ground, bermed 4500 gallon tank (Tank E) prior to concentrating in our evaporator. Tanks B and C were emptied and are out-of-service until closure is performed.

Any other hazardous waste generated on-site that is not compatible with the contents of former Tank A or present Tank D is accumulated in 55-gallon drums and immediately transported to an off-site TSDF.

Hazeltine has had TSDF status because of past storage of hazardous waste (prior to 1984) and evaporative treatment of rinsewater (which has since been shown to have been non-hazardous). See Attachments #1, #2, #3, and #4.

3.0 Closure Procedures

1. Take ~~three~~ four soil borings as described in Attachment #5 to assure that the site is free from contamination. Proposed locations are shown on Attachment #1.

2. Pressure wash Tanks A, B, C and D.

3. Excavate Tank A with interior PVC liner. Take a representative sample of liner and tank to determine proper disposal methods.

4. Excavate Tanks B and C with interior PVC liners. Take a representative sample of the liners and tanks to determine proper disposal methods.

5. Triple rinse all wastewater treatment equipment and tanks in the wastewater treatment room, and remove to await disposition (resale or reuse elsewhere).

6. Triple pressure wash the floor of the wastewater treatment area with a detergent/water solution. Sample the final rinsate for all parameters listed on our SPDES permit (NY0075752, outfall 001) and submit results to NYSDEC to show that it meets discharge standards. If not, repeat pressure washing until analyses of rinsate is below discharge limits.

7. Accumulate all rinsate from tanks, equipment, and floor cleaning into bermed Tank E. Take a representative analysis to determine proper disposal methods.

8. Properly manifest and dispose of all hazardous waste and contaminated materials resulting from closure operations.

9. All equipment used during closure will be the property of the contractor used and will be his responsibility to decontaminate if necessary.

10. Copies of all manifests and laboratory analyses will be provided to the State upon completion of closure and will include a report by a professional engineer supervising the project.

4.0 Closure Schedule

Closure will begin within 90 days after NYSDEC approval of this closure plan and will be completed within 180 days of start date. See Attachment #6 for estimated schedule with milestone dates to allow tracking of the progress of closure.

The site will continue solely as a generator of hazardous waste, an exempt storer as per 6NYCRR Part 373-1.1(d) (iv), and a treater of non-hazardous wastewater.

5.0 Certification of Closure

When closure is complete, Hazeltine Corporation will submit to NYSDEC letters from Hazeltine and an independent professional engineer certifying that the facility has been closed in accordance with the specifications of this plan.

6.0 Cost Estimate for Closure

See Attachment #7 for a detail of closure cost estimates. As per Paragraph 265.142 of the Resource Conservation and Recovery Act (RCRA), the cost estimates are compiled on a "worst case" basis and are revised annually to account for inflation. (Note: cost estimates are based on verbal quotes from contractors likely to be performing the closure operations).

7.0 Surety

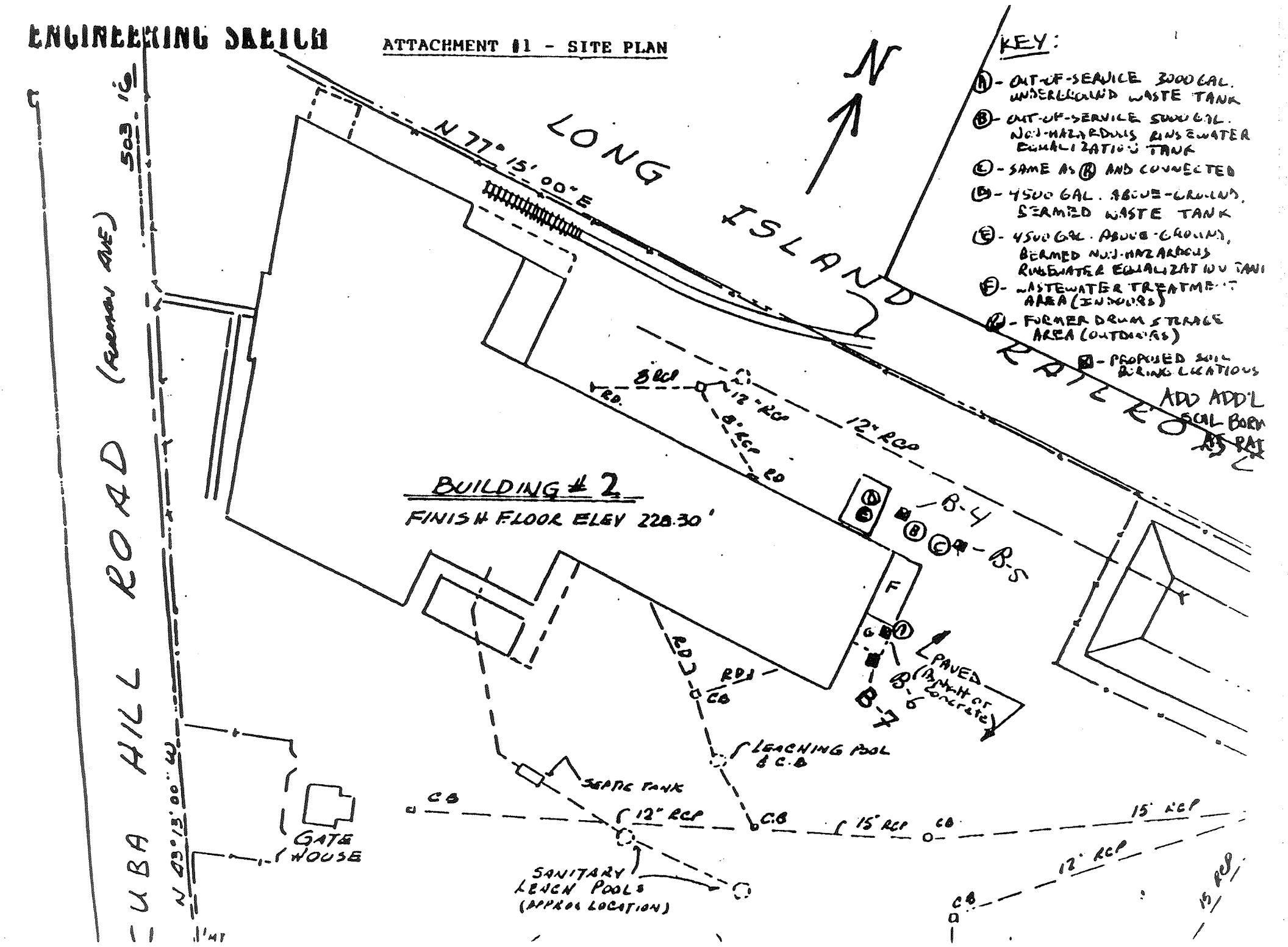
Financial assurance for closure and liability coverage (Attachment #8) was submitted to NYSDEC in February, 1990, in the form of a Financial Test and Corporate Guarantee by our parent company, Emerson Electric. This will be updated on an annual basis.

8.0 Amendments of Closure Plan

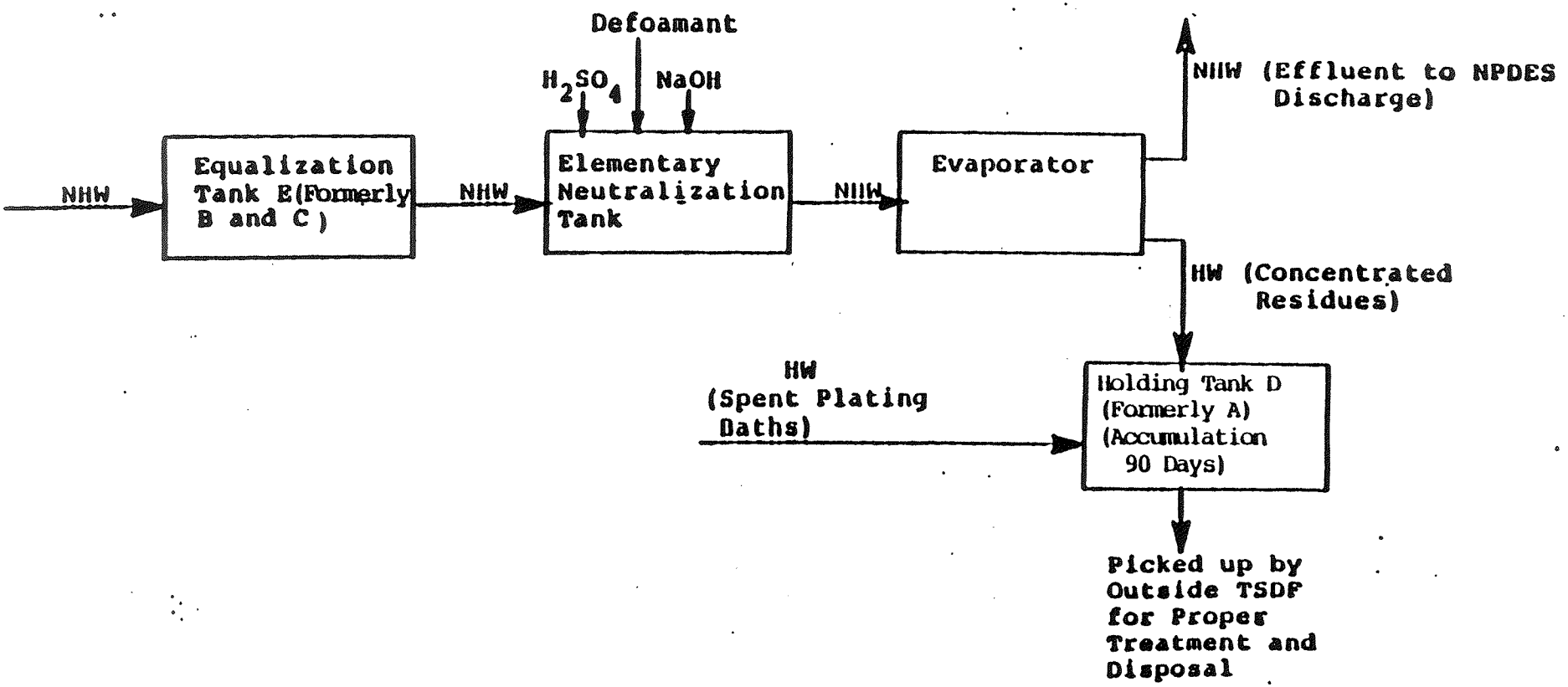
This closure plan will be amended whenever changes in operating plans or facility design affects it. If a 6NYCRR373 permit modification is requested, the closure plan will be amended at that time. If no permit modification is required, the closure plan will be amended within 60 days of any applicable change in operating plans or facility design.

ENGINEERING SKETCH

ATTACHMENT #1 - SITE PLAN



ATTACHMENT # 2: BUILDING #2 WASTEWATER TREATMENT PROCESSES



Key: NHW = Non-Hazardous Rinsewater
HW = Hazardous Waste

Note: Inlet NHW generated from a metal finishing operation (and formerly from a printed circuit board plating operation)

Attachment #3 - Underground Tank Descriptions

Tank A

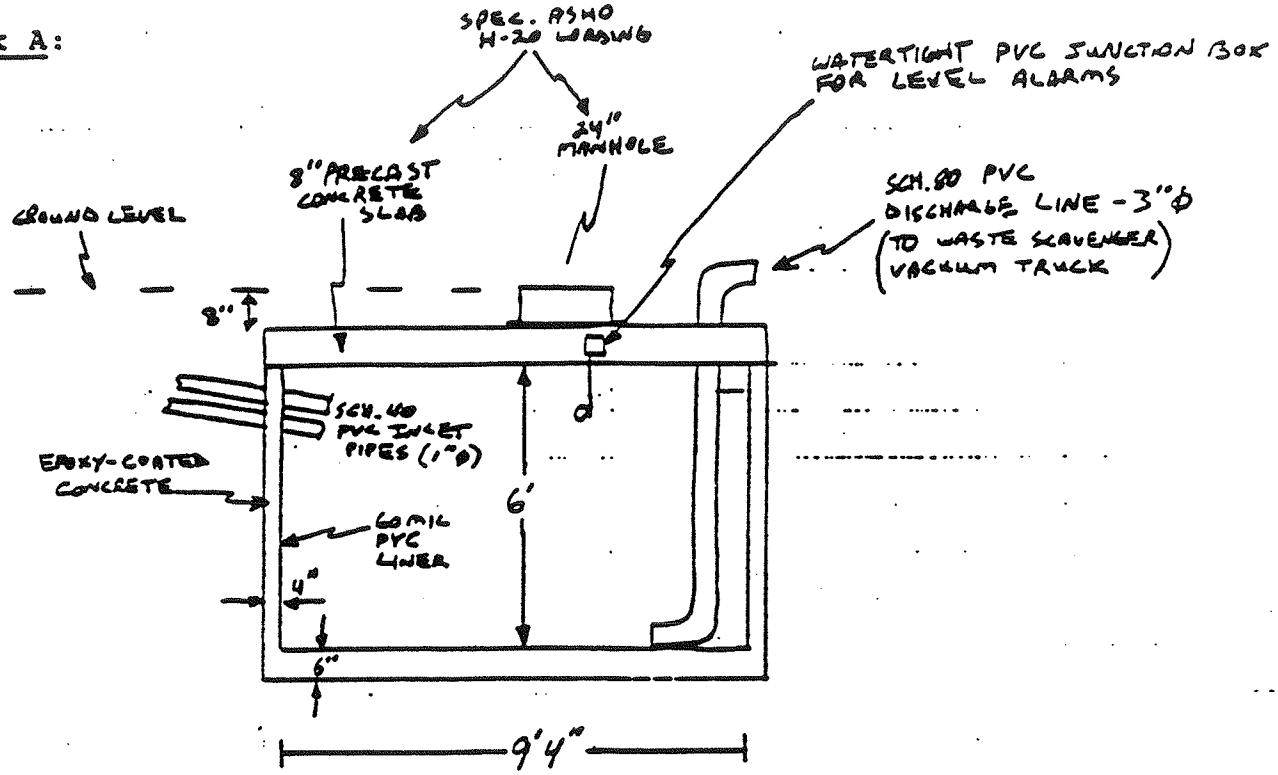
Capacity:	3000 gallons
Former Contents:	Waste Corrosive Liquid NOS (D002, F019) - Spent plating baths and concentrated residue from wastewater evaporation.
Year Installed:	1977
Installation:	Underground, cylindrical, epoxy coated (interior) concrete with 60 mil PVC liner; One manway, one discharge pipe, two fill pipes. (see Attachment #4 for schematics); level sensors and alarms.

Tanks B and C

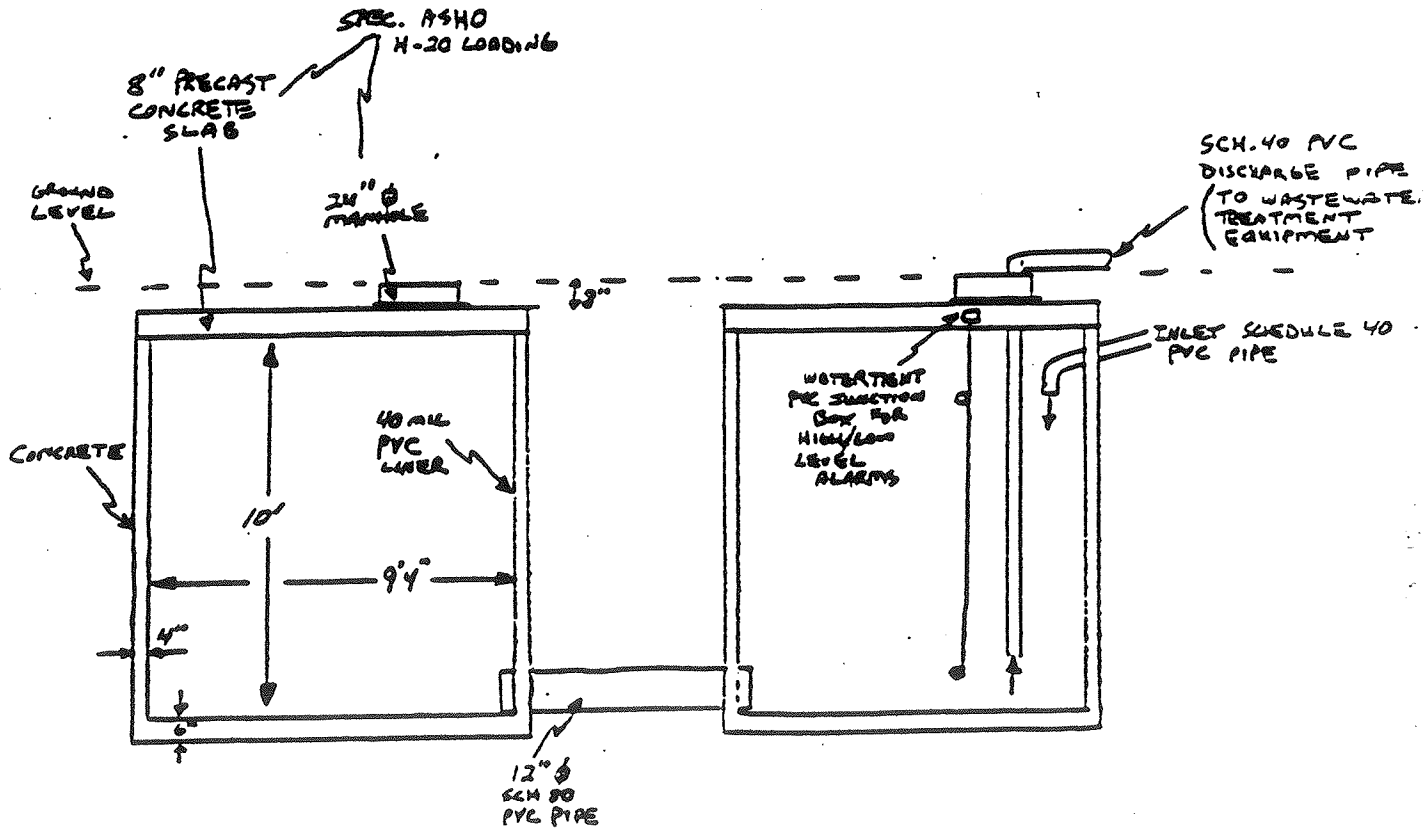
Capacity:	10,000 gallons (total)
Former Contents:	Non-hazardous rinsewater from printed circuit board plating and metal finishing operations.
Year Installed:	1977
Installation:	Two connected underground, cylindrical, 5000-gallon concrete tanks with 40 mil PVC liner; two manways, one discharge pipe, one fill pipe (see Attachment #4 for schematics); high and low level sensors and alarms.

ATTACHMENT #4 - TANK SCHEMATICS

Tank A:



Tanks B and C:



Attachment #5- Soil Sampling procedures/parameters

For ~~Three~~ soil borings are proposed at the site to prove the lack of contamination. One is proposed on each side of the two former equalization tanks (Tanks B and C) and one at the former container storage area at the corner bordering the former waste holding tank (Tank A). See Attachment #1 for locations.

The borings will be 21 feet in depth and will be drilled with a hollow stem auger rig. Each boring will be sampled every three feet with a split spoon sampler from the ground surface to 21 feet. The split spoon samples wil be visually inspected and logged in detail including:

a. soil characteristics (type, color, etc.)
b. material characteristics (odor, texture, etc.)
c. visual contamination description
d. approximate water content
e. results of total volatile organics and conductivity screenings.

An organic vapor analyzer will be used to screen each sample for total volatile organics. A soil sample from each spoon will be collected in a 40 ml vial and the vials will be heated in a 50 C hot water bath for ten minutes. An aliquot of air from the head space within the vial will then be withdrawn by syringe for direct injection into the OVA.

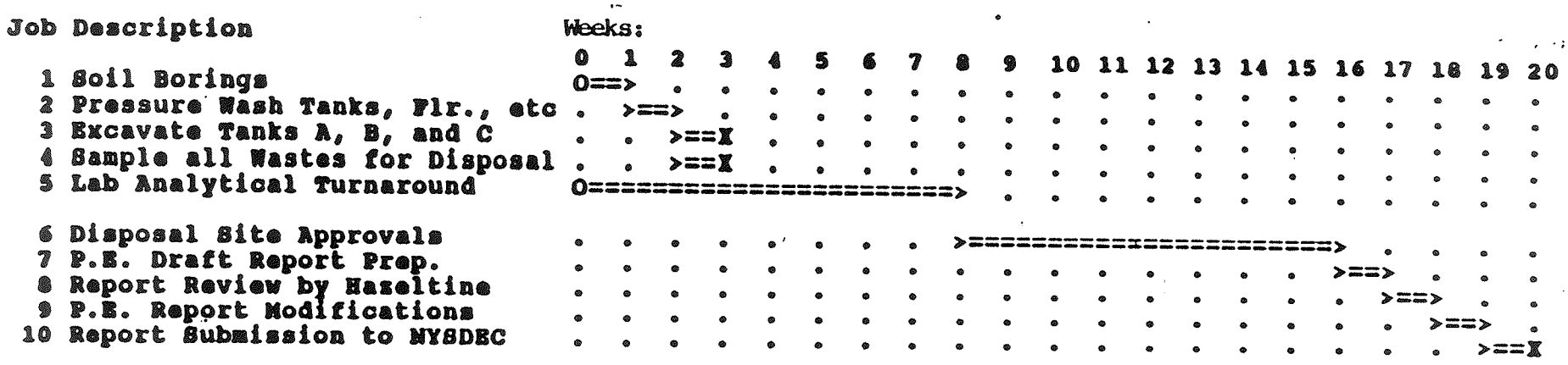
A soil slurry will be prepared for conductivity measurements by mixing a portion of soil from each sample with an equal weight of distilled water. A conductivity probe will then be inserted for readings.

All soil samples will be stored on ice for preservation until the OVA and conductivity measurements are completed and the selection The samples will be analyzed for Hazardous Substance List volatiles and metals as described in the Department of Environmental Conservation Contract Lab Protocol document. One duplicate sample, and one field blank will be also be collected.

In order to prevent any possible cross-contamination, the split spoon will be cleaned with soap and water and rinsed in distilled water between each sample. In addition, the augers will be steam cleaned between each boring to remove any soil or waste debris from the auger flights.

ATTACHMENT #6:

CLOSURE (NYD002041242), Revision 0, 3/ 9/90, File is not named
Prepared by Tony Germinario



Sorting order is Current order
From the first job to the last job
Jobs using all skills

Symbol-Explanation

>-->	Duration of a normal job
>..>	Slack time for a normal job
>==>	Duration of a critical path job
>!!>	Duration of a completed job
*	Job with zero duration
+	Job deadline
O-->	Job with no prerequisites
>--X	Job with no successors
!	Time break due to holiday or week-off

Attachment #7- Closure Cost Estimates

	Item	Cost
1)	Sewer Jet to pressure wash wastewater treatment area floor (triple rinse) and Tanks A, B, C and D	$ 2,000
2)	Removal and disposal of washwater (approximately 1000 gallons @ .15¢/gal plus $425 for transportation)	575
3)	Vacuum truck (@ $90/hr)	720
4)	Soil borings and on-site screening of split-spoon samples	7,500
5)	Disposal of Tanks A, B and C plus liners (@ $400/cu yd)	10,000
6)	Disposal of one drum of miscellaneous contaminated materials	400
7)	Laboratory analysis of composite rinsate sample six soil samples, and 3 waste samples (@ 400 ea.)	4,000
8)	Certification and report by a N.Y. State licensed Professional Engineer	4,000
	Subtotal	$ 26,195
9)	Contingent Cost (20%)	5,239
10)	Administration (15%)	3,929
	TOTAL	$35,363

APPENDIX B

WASTE MANIFESTS

CHEMICAL MANAGEMENT INC.

340 Eastern Parkway
Farmingdale, New York 11735
(516) 454-6766

1120-OTD .669

B/L Number 00476 Date 11-20-90

Received, subject to the classification and tariffs in effect on the date of issue of this original Bill of Lading.

STRAIGHT BILL OF LADING NON NEGOTIABLE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION - DIVISION OF HAZARDOUS SUBSTANCE REGULATION

DATE OF PICKUP 11-20-90 EPA IDENTIFICATION CODE NO. N/A
GENERATOR Hazeltine Corporation ADDRESS Cuba Hill Road
CITY Greenlawn STATE NY ZIP 11740 PHONE 516-262-8324

US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Waste No.
a. Non-hazardous waste (water 99%/heavy metal .05%/flourides .05%)	1	TT	4456	G	N/A
b					
c.					
d					

Additional Information/Lab Code
a CD20230
b
c
d

SPECIAL HANDLING INSTRUCTIONS/COMMENTS
(Contract No)

PLACARDS PROVIDED/AFFIXED
1.
2.
DRIVERS SIGNATURE X

EMERGENCY INFORMATION!!!
CALL: CHEMTREC 800-424-9300
Call Generator, (print) Hazeltine Corporation
Phone No. A/C 516-262-8324

GENERATOR CERTIFICATION:
I certify that the materials described above are properly described, classified, packaged, marked and labeled and are in proper condition to be transported in commerce under the applicable regulations of the Federal Environmental Protection Agency and the Federal Department of Transportation, and that shipment and delays are correct as noted.
Print Name Gary J. Nast Signature [signature] Date Shipped 11/20/90

TRANSPORTER
EPA IDENTIFICATION CODE NO. NYD000691949
COMPANY Chemical Management Inc. ADDRESS 340 Eastern Parkway
CITY Farmingdale STATE NY ZIP 11735 PHONE 516-454-676
This is to certify acceptance of the above described waste for transportation.
PRINT NAME Gene Kayle SIGNATURE [signature] DATE 11-20-90

		A.M.	P.M.
DEPARTED	630	X	
ARRIVAL AT CUSTOMER	730	X	
STARTED LOADING	815	X	
END LOADING	930	X	
DEPARTED CUSTOMER	935	X	

ARRIVE CHEMICAL MANAGEMENT A.M. P.M.
TOTAL DELAY TIME
REASON FOR DELAY
TRACTOR NO. TR-103 TRAILER NO. T-1

CONSIGNEE/TREATMENT/STORAGE/DISPOSAL FACILITY EPA IDENTIFICATION CODE NO. NYD000691949
CONSIGNED TO Chemical Management Inc. ADDRESS 340 Eastern Parkway
CITY Farmingdale STATE NY ZIP 11735 PHONE 516-454-6766
THIS IS TO CERTIFY THE ACCEPTANCE OF THIS WASTE FOR TREATMENT STORAGE DISPOSAL
PRINT NAME [illegible] SIGNATURE [signature] DATE 11-21-90

White-GENERATOR FILE

DEC 03 '92 12:28 REPUBLIC ENVIRONMENTAL

340 Eastern Parkway
Farmingdale, New York 11735
(516) 454-6766

983

B/L Number 00606 Date 1-17-91 Received, subject to the classification and tariffs in effect on the date of issue of this original Bill of Lading.	STRAIGHT BILL OF LADING NON NEGOTIABLE	DEPARTMENT OF ENVIRONMENTAL CONSERVATION - DIVISION OF HAZARDOUS SUBSTANCE REGULATION

DATE OF PICKUP 1-17-91 EPA IDENTIFICATION CODE NO. N/A
GENERATOR Hazeltine Corporation ADDRESS Cuba Hill Road
CITY Greenlawn STATE NY ZIP 11740 PHONE 516-262-8242

	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Containers Type	Total Quantity	Unit Wt./Vol.	Waste No.
a.	Non-hazardous waste (rinse water)	29	DM	1595	G	N/A
b.						
c.						
d.						

Additional Information/Lab Code
a CD21233
b
c
d

SPECIAL HANDLING INSTRUCTIONS/COMMENTS
(Contract No ____)

PLACARDS PROVIDED/AFFIXED
1.
2.
DRIVERS SIGNATURE X

EMERGENCY INFORMATION Hazeltine Corporation
CALL: CHEMTREC 800-424-9300 516-262-8242
Call Generator (print)
Phone No. A/C

GENERATOR CERTIFICATION:
I certify that the materials described above are properly described, classified, packaged, marked and labeled and are in proper condition to be transported in commerce under the applicable regulations of the Federal Environmental Protection Agency and the Federal Department of Transportation, and that all times and delays are correct as noted.
Print Name Gary Nasta Signature [signature] Date Shipped 1-17-91

EPA IDENTIFICATION CODE NO. NYD000691949
TRANSPORTER COMPANY Chemical Management Inc. ADDRESS 340 Eastern Parkway
CITY Farmingdale STATE NY ZIP 11735 PHONE 516-454-6766
This is to certify acceptance of the above described waste for transportation
PRINT NAME GENE HOYLE SIGNATURE [signature] DATE 1-17-91

		A.M.	P.M.
DEPARTED	7:45	/	
ARRIVAL AT CUSTOMER	9:30	X	
STARTED LOADING	9:45	X	
END LOADING	10:00	X	
DEPARTED CUSTOMER	10:20	X	

ARRIVE CHEMICAL MANAGEMENT ____ A.M. P.M.
TOTAL DELAY TIME
REASON FOR DELAY
TRACTOR NO. TR-102 TRAILER NO

CONSIGNEE/TREATMENT/STORAGE/DISPOSAL FACILITY EPA IDENTIFICATION CODE NO. NYD000691949
CONSIGNED TO Chemical Management Inc. ADDRESS 340 Eastern Parkway
CITY Farmingdale STATE NY ZIP 11735 PHONE 516-454-6766
THIS IS TO CERTIFY THE ACCEPTANCE OF THIS WASTE FOR TREATMENT STORAGE DISPOSAL
PRINT NAME Malcolm E. Mason SIGNATURE [signature] DATE 01-17-91

White - GENERATOR FILE Yellow - TRANSPORTER FILE Pink - PROCESSING FACILITY Gold - RETURN TO GENERATOR

HAZELTINE ... TEL NO.516-262-8192 DEC 3,92 11:12 NO.011 P.03

H2MGROUP

APPENIX C

LAB REPORTS/SAMPLE DATA SUMMARY PACKAGE

CompuChem's Lab Reports

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4-B

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) SOIL Lab Sample ID: 337288

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037288C12

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. 18 Date Analyzed: 05/14/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	16	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4-I

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) SOIL Lab Sample ID: 337290

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037290C12

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. 3 Date Analyzed: 05/14/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	11	B
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B5-F

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 06

Matrix: (soil/water) SOIL Lab Sample ID: 337469

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037469C12

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. 2 Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA 1/87 Rev.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B5-K

Lab Name: COMPUCHEM, RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 06

Matrix: (soil/water) SOIL Lab Sample ID: 337473

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037473C12

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. 3 Date Analyzed: 05/17/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	39	B
67-64-1	Acetone	57	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B6-D

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 06

Matrix: (soil/water) SOIL Lab Sample ID: 337935

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037935C12

Level: (low/med) LOW Date Received: 05/10/90

% Moisture: not dec. 3 Date Analyzed: 05/17/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	31	B
67-64-1	Acetone	36	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	87	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B6-K

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 06

Matrix: (soil/water) SOIL Lab Sample ID: 337936

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH037936C12

Level: (low/med) LOW Date Received: 05/10/90

% Moisture: not dec. 3 Date Analyzed: 05/17/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	42	B
67-64-1	Acetone	43	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: B7A-B

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 16

Matrix: (soil/water) SOIL Lab Sample ID: 339832

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH039832C12

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 6 Date Analyzed: 05/24/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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	16	B
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B7B-A

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 16

Matrix: (soil/water) SOIL Lab Sample ID: 339829

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH039829B12

Level: (low/med) LOW Date Received: 05/16/90

% Moisture: not dec. 4 Date Analyzed: 05/23/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B7-C

Lab Name: COMPUCHEM,RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 16

Matrix: (soil/water) SOIL Lab Sample ID: 339331

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH039331C09

Level: (low/med) LOW Date Received: 05/15/90

% Moisture: not dec. 3 Date Analyzed: 05/17/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	23	B
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B7-J

Lab Name: COMPUCHEM, RTP Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 19885 SAS No.: _____ SDG No.: 16

Matrix: (soil/water) SOIL Lab Sample ID: 339337

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH039337A09

Level: (low/med) LOW Date Received: 05/15/90

% Moisture: not dec. 11 Date Analyzed: 05/17/90

Column: (pack/cap) CAP Dilution Factor: 1.0

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	28	B
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B4-B

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337289

Level (low/med): LOW Date Received: 05/08/90

% Solids: 87.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14600			P
7440-36-0	Antimony	8.9	U	N	P
7440-38-2	Arsenic	11.6			F
7440-39-3	Barium	40.8	B		P
7440-41-7	Beryllium	.48	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	589	B		P
7440-47-3	Chromium	15.7			P
7440-48-4	Cobalt	6.9	B		P
7440-50-8	Copper	20.5			P
7439-89-6	Iron	16500			P
7439-92-1	Lead	19.3		S*	F
7439-95-4	Magnesium	1830			P
7439-96-5	Manganese	250			P
7439-97-6	Mercury	.35		N	CV
7440-02-0	Nickel	9.3			P
7440-09-7	Potassium	909	U		P
7782-49-2	Selenium	2.3	U	WN	F
7440-22-4	Silver	.92	U		P
7440-23-5	Sodium	58.1	U		P
7440-28-0	Thallium	.69	U		F
7440-62-2	Vanadium	25.2			P
7440-66-6	Zinc	30.8			P
	Cyanide	.57	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B4-I

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337291

Level (low/med): LOW Date Received: 05/08/90

% Solids: 95.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	922			P
7440-36-0	Antimony	8.2	U	N	P
7440-38-2	Arsenic	1.2	B		F
7440-39-3	Barium	5.9	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	75.0	B		P
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	13.8			P
7439-89-6	Iron	2860			P
7439-92-1	Lead	1.1		*	F
7439-95-4	Magnesium	277	B		P
7439-96-5	Manganese	69.0			P
7439-97-6	Mercury	.10	U	N	CV
7440-02-0	Nickel	7.1	U		P
7440-09-7	Potassium	831	U		P
7782-49-2	Selenium	.42	U	WN	F
7440-22-4	Silver	.84	U		P
7440-23-5	Sodium	53.1	U		P
7440-28-0	Thallium	.63	U		F
7440-62-2	Vanadium	4.3	B		P
7440-66-6	Zinc	13.8			P
	Cyanide	.52	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B5-F

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337943

Level (low/med): LOW Date Received: 05/10/90

% Solids: 97.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	556			P
7440-36-0	Antimony	8.0	U	N	P
7440-38-2	Arsenic	.61	U		F
7440-39-3	Barium	3.0	B		P
7440-41-7	Beryllium	.20	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	39.8	B		P
7440-47-3	Chromium	1.4	U		P
7440-48-4	Cobalt	1.4	U		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	2240			P
7439-92-1	Lead	.41	U	*	F
7439-95-4	Magnesium	152	B		P
7439-96-5	Manganese	38.7			P
7439-97-6	Mercury	.10	U	N	CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	813	U		P
7782-49-2	Selenium	.41	U	WN	F
7440-22-4	Silver	.82	U		P
7440-23-5	Sodium	51.9	U		P
7440-28-0	Thallium	.61	U		F
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	9.4			P
	Cyanide	.92			AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B5-K

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337942

Level (low/med): LOW Date Received: 05/10/90

% Solids: 96.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	424			P
7440-36-0	Antimony	8.1	U	N	P
7440-38-2	Arsenic	.77	B		F
7440-39-3	Barium	2.7	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	38.2	B		P
7440-47-3	Chromium	5.6			P
7440-48-4	Cobalt	1.4	U		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	2090			P
7439-92-1	Lead	.51	B	*	F
7439-95-4	Magnesium	124	B		P
7439-96-5	Manganese	18.1			P
7439-97-6	Mercury	.10	U	N	CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	821	U		P
7782-49-2	Selenium	.41	U	WN	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	52.5	U		P
7440-28-0	Thallium	.62	U		F
7440-62-2	Vanadium	3.7	B		P
7440-66-6	Zinc	2.9	B		P
	Cyanide	.52	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B6-D

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337940

Level (low/med): LOW Date Received: 05/10/90

% Solids: 97.4

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	8.0	U	N	P
7440-38-2	Arsenic	1.4	B	W	F
7440-39-3	Barium	10.9	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	275	B		P
7440-47-3	Chromium	4.0			P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	3290			P
7439-92-1	Lead	2.0		*	F
7439-95-4	Magnesium	632	B		P
7439-96-5	Manganese	65.0			P
7439-97-6	Mercury	.10	U	N	CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	816	U		P
7782-49-2	Selenium	.41	U	WN	F
7440-22-4	Silver	.82	U		P
7440-23-5	Sodium	52.2	U		P
7440-28-0	Thallium	.62	U		F
7440-62-2	Vanadium	5.6	B		P
7440-66-6	Zinc	10.4			P
	Cyanide	.51	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B6-K

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988558

Matrix (soil/water): SOIL Lab Sample ID: 337941

Level (low/med): LOW Date Received: 05/10/90

% Solids: 96.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	432			P
7440-36-0	Antimony	8.1	U	N	P
7440-38-2	Arsenic	.62	U		F
7440-39-3	Barium	3.4	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	52.8	B		P
7440-47-3	Chromium	1.4	U		P
7440-48-4	Cobalt	1.4	U		P
7440-50-8	Copper	5.8			P
7439-89-6	Iron	1170			P
7439-92-1	Lead	.41	U	W*	F
7439-95-4	Magnesium	110	B		P
7439-96-5	Manganese	23.2			P
7439-97-6	Mercury	.10	U	N	CV
7440-02-0	Nickel	7.0	U		P
7440-09-7	Potassium	823	U		P
7782-49-2	Selenium	.41	U	WN	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	52.6	U		P
7440-28-0	Thallium	.62	U		F
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	4.0	B		P
	Cyanide	.52	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B7 A/B

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988588

Matrix (soil/water): SOIL Lab Sample ID: 339833

Level (low/med): LOW Date Received: 05/16/90

% Solids: 96.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1260			P
7440-36-0	Antimony	8.1	U	N	P
7440-38-2	Arsenic	.66	B		F
7440-39-3	Barium	3.7	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	152	B		P
7440-47-3	Chromium	2.6			P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron	2190			P
7439-92-1	Lead	1.0			F
7439-95-4	Magnesium	312	B		P
7439-96-5	Manganese	39.8			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.1	U		P
7440-09-7	Potassium	824	U		P
7782-49-2	Selenium	.41	U	WN	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	52.7	U		P
7440-28-0	Thallium	.62	U		F
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	9.4			P
	Cyanide	.52	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B7 B/A

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988588

Matrix (soil/water): SOIL Lab Sample ID: 339831

Level (low/med): LOW Date Received: 05/16/90

% Solids: 96.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5000			P
7440-36-0	Antimony	8.1	U	N	P
7440-38-2	Arsenic	.62	U		F
7440-39-3	Barium	39.7	B		P
7440-41-7	Beryllium	.24	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	111	B		P
7440-47-3	Chromium	12.4			P
7440-48-4	Cobalt	4.6	B		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	8290			P
7439-92-1	Lead	.99			F
7439-95-4	Magnesium	2710			P
7439-96-5	Manganese	100			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.1	U		P
7440-09-7	Potassium	2570			P
7782-49-2	Selenium	.42	U	WN	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	52.8	U		P
7440-28-0	Thallium	.62	U		F
7440-62-2	Vanadium	15.6			P
7440-66-6	Zinc	19.0			P
	Cyanide	.52	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
FORM 1 - PAGE 2

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B7-C

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988588

Matrix (soil/water): SOIL Lab Sample ID: 339339

Level (low/med): LOW Date Received: 05/15/90

% Solids: 95.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	520			P
7440-36-0	Antimony	8.2	U	N	P
7440-38-2	Arsenic	.63	U		F
7440-39-3	Barium	2.4	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	19.8	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	1310			P
7439-92-1	Lead	.70			F
7439-95-4	Magnesium	169	B		P
7439-96-5	Manganese	30.5			P
7439-97-6	Mercury	.11	U		CV
7440-02-0	Nickel	7.1	U		P
7440-09-7	Potassium	835	U		P
7782-49-2	Selenium	.42	U	WN	F
7440-22-4	Silver	.84	U		P
7440-23-5	Sodium	53.4	U		P
7440-28-0	Thallium	.63	U		F
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	4.3			P
	Cyanide	.53	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM 1 - PAGE 3

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B7-J

Lab Name: COMPUCHEM LABORATORIES Contract: 788

Lab Code: COMPU Case No.: 34570 SAS No.: _____ SDG No.: 988588

Matrix (soil/water): SOIL Lab Sample ID: 339340

Level (low/med): LOW Date Received: 05/15/90

% Solids: 93.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	437			P
7440-36-0	Antimony	8.3	U	N	P
7440-38-2	Arsenic	.64	U	W	F
7440-39-3	Barium	1.8	B		P
7440-41-7	Beryllium	.21	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	11.8	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	957			P
7439-92-1	Lead	.68			F
7439-95-4	Magnesium	106	B		P
7439-96-5	Manganese	17.2			P
7439-97-6	Mercury	.11	U		CV
7440-02-0	Nickel	7.3	U		P
7440-09-7	Potassium	849	U		P
7782-49-2	Selenium	.43	U	N	F
7440-22-4	Silver	.85	U		P
7440-23-5	Sodium	54.3	U		P
7440-28-0	Thallium	.64	U		F
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	3.6	B		P
	Cyanide	.53	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM 1 - PAGE 4

YORK LABORATORIES
A DIVISION OF YWC

SAMPLE DATA SUMMARY PACKAGE

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

200 MONROE TURNPIKE • MONROE, CONNECTICUT 06468 • (203) 452 8200

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3091-0240

CLIENT NAME : RADIAN CORP

PROJECT ID : HAZELTINE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0003

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3091-0240

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
TP-B	0240001	X				X		
TP-C	0240002	X				X		
TANK PIT A	0240003	X				X		

* Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0004

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA - TCLP TC LIST
ANALYSIS

JOB # : 3091-0240

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
TP-B	Soil		11/15/90	11/16/90	11/20/90
TP-C	Soil		11/15/90	↓	11/18/90
TANK PIT A	Soil		11/16/90	11/17/90	11/18/90

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0005

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TCLP METALS
INORGANIC ANALYSIS

JOB # : 3091-0240

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
TP-B	Aqueous	CLP	HNO3, HCl	N/A	1:1
TP-C	Aqueous	↓	↓	↓	↓
TANK PIT A	Aqueous				
TP-B	Aqueous	CLP	Manual Cold Vapor	N/A	1:10
TP-C	Aqueous	↓	↓	↓	↓
TANK PIT A	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3091-0240

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
TP-B	Aqueous	TCLP METALS	11/15/90	11/16/90	11/19/90
TP-C	Aqueous	TCLP METALS	11/15/90	11/16/90	11/19/90
TANK PIT A	Aqueous	TCLP METALS	11/16/90	11/19/90	11/20/90
TP-B	Aqueous	TCLP Metals	11/15/90	11/19/90	11/20/90
TP-C	Aqueous	TCLP Metals	11/15/90	11/19/90	11/20/90
TANK PIT A	Aqueous	TCLP Metals	11/16/90	11/19/90	11/20/90

CLIENT CHAINS OF CUSTODY

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

PACKAGE TRACKING NUMBER 8594310611

236N 8594310616

0008

RECIPIENT'S COPY

Date

1 From (Your Name) Please Print | Your Phone Number (Very Important)
(703)834-1500
Company: RADIAN CORP | Department/Floor No.
Street Address: 2455 HORSEPEN RD STE 250
City: HERNDON | State: VA | ZIP Required: 22071

2 To (Recipient's Name) Please Print | Recipient's Phone Number (Very Important)
Company | Department/Floor
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip + Codes.)
City | State | ZIP Required

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City | State | ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)
11 [X] YOUR PACKAGING
16 [ ] FEDEX LETTER *
12 [X] FEDEX PAK *
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight Service (Delivery by next business afternoon†)
51 [ ]
56 [ ] FEDEX LETTER *
52 [ ] FEDEX PAK *
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day Service (formerly Standard Air) (Delivery by second business day†)
30 [ ] ECONOMY TWO-DAY SVC.

Heavyweight Service (for Extra Large or any package over 150 lbs.)
70 [ ] HEAVYWEIGHT **
80 [ ] DEFERRED HEAVYWEIGHT **

†Delivery commitment may be later in some areas.
*Declared Value Limit $100.
**Call for delivery schedule.

DELIVERY AND SPECIAL HANDLING (Check services required)

1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [X] DELIVER WEEKDAY
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE ____ LBS.
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
Total	Total	Total

DIM SHIPMENT (Chargeable Weight) [ ] ____ lbs.

Received At
1 [ ] Regular Stop 3 [ ] Drop Box 4 [ ] B.S.C. 5 [ ] Station 2 [ ] On-Call Stop

FedEx Emp. No. | Date/Time

5 Release Signature:

Emp. No. | Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City | State | Zip
Received By: X Ray 11/15/90
Date/Time Received | FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 8/90
PART #119501 NCREC
FORMAT #041
041
© 1990 F.E.C.
PRINTED IN U.S.A.

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 8594310620

236N 8594310620

RECIPIENT'S COPY

Date

1 From (Your Name) Please Print | Your Phone Number (Very Important)
(703)834-1500
Company: RADIAN CORP | Department/Floor No.
Street Address: 2455 HORSEPEN RD STE 250
City: HERNDON | State: VA | ZIP Required: 22071

2 To (Recipient's Name) Please Print | Recipient's Phone Number (Very Important)
Company | Department/Floor
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip + Codes.)
City | State | ZIP Required

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City | State | ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)
11 [X] YOUR PACKAGING
16 [ ] FEDEX LETTER *
12 [ ] FEDEX PAK *
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight Service (Delivery by next business afternoon†)
51 [ ]
56 [ ] FEDEX LETTER *
52 [ ] FEDEX PAK *
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day Service (formerly Standard Air) (Delivery by second business day†)

Heavyweight Service (for Extra Large or any package over 150 lbs.)
70 [ ] HEAVYWEIGHT **
DEFERRED

DELIVERY AND SPECIAL HANDLING (Check services required)

1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [X] DELIVER WEEKDAY
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE ____ LBS.
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
Total	Total	Total

DIM SHIPMENT (Chargeable Weight) [ ] ____ lbs.

Received At
[ ] Regular Stop 3 [ ] Drop Box 4 [ ] B.S.C.
[ ] On-Call Stop

5 Release Signature:

Emp. No. | Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City | State | Zip
Received By: X [illegible] 11/15/90
Date/Time Received | FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 8/90
PART #119501 NCREC
FORMAT #041
041
© 1990 F.E.C.

RADIAN CORPORATION

CHAIN OF CUSTODY RECORD

RETURN ORIGINAL TO ORIGINATOR
☒ YES ☐ NO

PROJECT NO.	PROJECT NAME
215 026 04 13	Hazeltine Greenlawn Tank Closure

SAMPLERS: (Name/Signature)
Richard Lang / Richard Lang

FIELD NUMBER:	COLLECTION DATE	COLLECTION TIME	SAMPLE NAME	NO. OF BOTTLES	ANALYSES: TCLP Volatiles	ANALYSES: TCLP Metals	ANALYSES	ANALYSES	ANALYSES	ANALYSES	COMMENTS (TYPE OF CONTAINER, SPECIAL PRESERVATION, SPECIAL HANDLING, ETC.)
TP A	15 Nov 90	1430	Tank Pit A	2	X	X					Preservative: 4° C
											✱ 72 hr Turn-Around ✱

Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature)	Date/Time	Carrier: (In person, Fed X, UPS, etc)
Richard Lang / Richard Lang	15 Nov 90 1700			Airbill # 8594310620
Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature)	Date/Time	Carrier: (In person, Fed X, UPS, etc)
Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature)	Date/Time	Carrier: (In person, Fed X, UPS, etc)
			11/16/90 10[illegible]	

General Comments:

Distribution: Original: Accompanies Samples (Return to Originator), Yellow Copy: Field Crew, Pink Copy: Laboratory Files

6000

RADIAN CORPORATION

CHAIN OF CUSTOL ECORD

RETURN ORIGINAL TO ORI FOR
☒ YES ☐ NO

PROJECT NO.	PROJECT NAME
215 026 04 13	Hazeltine Greenlawn Tank Closure

SAMPLERS: (Name/Signature) Richard Lang
Richard Lang

FIELD NUMBER:	COLLECTION DATE	COLLECTION TIME	SAMPLE NAME	NO. OF BOTTLES	ANALYSES: TCLP Metals	ANALYSES: TCLP Volatiles	COMMENTS (TYPE OF CONTAINER, SPECIAL PRESERVATION, SPECIAL HANDLING, ETC.)
TP-B	14 Nov 90	1430	Tank Pit B	2	X	X	4°C Preservative
TP-C	14 Nov 90	1430	Tank Pit C	2	X	X	★ 72 Hour Turn-around ★

Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature)	Date/Time	Carrier: (In person, Fed X, UPS, etc)
Richard Lang Richard Lang	14 Nov 90 1600			Airbill # 8594310616
Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature)	Date/Time	Carrier: (In person, Fed X, UPS, etc)
Relinquished by: (Name/Signature)	Date/Time	Received by: (Name/Signature) B Coy	Date/Time 11/15/90	Carrier: (In person, Fed X, UPS, etc)

General Comments:

Distribution: Original: Accompanies Samples (Return to Originator), Yellow Copy: Field Crew, Pink Copy: Laboratory Files

0010

LOG-IN RECORD

: Radian

U. ID: _____

YORK JOB #: 3091-0740

FOR CLIENT USE

SAMPLE BOTTLE DESCRIPTIONS

SAMPLE ID (12 Characters)	DATE SAMPLED	LAB SAMPLE #	330ml SOIL JAR								TOTAL BOTTLES	COMMENTS
TANK PIT A	11/15/90	003	2								2	SOIL

Lab Use Only

REF. # : 7

2 = TOTAL # OF BOTTLES

SPLIT WITH ANOTHER PARTY? II YES II NO

IF YES, IDENTIFY:

II RECEIVED IN LAB BY: KEAY

II

II SIGNATURE: [signature]

DATE: 11/15/90 TIME: 10:30

SEAL INTACT? YES NO N/A

SEAL #: _____

LOG-IN RECORD

Radian

J. ID:

YORK JOB #: 3091-0240

0012

SAMPLE BOTTLE DESCRIPTIONS

FOR CLIENT USE

SAMPLE ID (12 Characters)	DATE SAMPLED	# LAB SMPL #	soil JAR								TOTAL BOTTLES	COMMENTS
TP-B	/ /	001	2								2	soil
TP-C	/ /	002	2								2	soil

Lab Use Only

REF. # : 7

4 = TOTAL # OF BOTTLES

SPLIT WITH ANOTHER PARTY? [ ] YES [ ] NO

IF YES, IDENTIFY:

RECEIVED IN LAB BY: KRAY

SIGNATURE: [signature]

DATE: 11/15/90 TIME: 11:50

SEAL INTACT? (YES) NO N/A

SEAL #:

LABORATORY CHAINS OF CUSTODY

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

YORK LABORATORIES DIVISION OF YWC, INC.
IN-HOUSE CUSTODY SHEET

CLIENT: RADIAN

Custody Seal — present/absent
intact/not intact

Chain of Custody — present/absent

Samples Tags — present/absent
listed/not listed

SMO Forms — present/absent

DATE: 11/16/90
SAMPLE CUSTODIAN SIGNATURE: [signature]
JOB #: 3091-0240
CASE #:
AIRBILL #:
SAMPLE #'s: 3

LABORATORY SAMPLE NUMBER	REMOVED BY	DATE AND TIME REMOVED	REASON	DATE & TIME RETURNED	RETURNED TO REF. #
3	MH	11/16 12:30	VOA	Used	
3	[illegible]	11/26/90 3pm	Metals	11/26/90 10pm	7
					REF # 7

0014

YORK LABORATORIES L .SION OF YWC, INC.
IN-HOUSE CUSTODY SHEET

CLIENT: RADIAN

Custody Seal — present/absent
Chain of Custody — intact/not intact
Samples Tags — present/absent
SMO Forms — present absent
listed/not listed
present/absent

DATE: 11-15-90
SAMPLE CUSTODIAN SIGNATURE:
JOB #: 3091-0240
CASE #:
AIRBILL #:
SAMPLE #'s: 1-2 HB1

LABORATORY SAMPLE NUMBER	REMOVED BY	DATE AND TIME REMOVED	REASON	DATE & TIME RETURNED	RETURNED TO REF. #
1-2 HB1	MM	11/18 / 12/30	VOA		
1 Blank 11/17 11/16	L HD	11/20 11:15	VOA	USED	
					REF # 35
					7

0015

YORK LABORATORIES

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 0240 Sample Numbers 001, 002, 003

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines authorize the release of this preparation:

Sample Prep		
Diane Abate	11/16/90, 11/19/90	ICP/FL
		FURN
D.F. [illegible] L. Prajda	11/15/90	MERCURY
Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis		
[illegible signature]	11/19/90, 11/20/90	ICP
		FLAME
		FURN
D.F. [illegible] L. Prajda	11/20/90	MERCURY
Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete Dianne M. Irigue 11/26/90
Supervisor Date

Batch Assignment

200 MONROE TURNPIKE • MONROE, CONNECTICUT 06468 • (203) 261-4458
529 ROUTE 10 • [illegible] NEW JERSEY [illegible] • (201) 428-8181
125 WEST CENTER COURT • [illegible]

CASE NARRATIVE

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

30910-0240
RADIAN CORPORATION

Case Narrative

Volatile Organics - Sample TP-C was spiked instead of the requested TP-B.

Sample TP-B and TP-C were leached on 11/16/90, sample Tank Pit A was leached on 11/17/90.

Metals - The TCLP leachate blank for samples TP-B and TP-C contained silver at levels exceeding the CRDL (42 ppb). However, since the prep blank and the samples exhibited negligible silver, the quantity present in the TCLP blank was considered to be due to possible contamination that did not affect the samples themselves.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of This hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

Nov. 30, 1990
Date

ORGANICS DATA PACKAGE

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

VOLATILE DATA

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TANK PIT A

0029

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix: (soil/water) WATER Lab Sample ID: 0240003

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8546

Level: (low/med) LOW Date Received: 11/16/90

% Moisture: not dec. Date Analyzed: 11/18/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	5.000	U
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	11.000	
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-B 0034

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix: (soil/water) WATER Lab Sample ID: 0240001

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8590

Level: (low/med) LOW Date Received: 11/15/90

% Moisture: not dec. Date Analyzed: 11/20/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	5.000	U
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0038

TP-C

Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix: (soil/water) WATER Lab Sample ID: 0240002

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8548

Level: (low/med) LOW Date Received: 11/15/90

% Moisture: not dec. Date Analyzed: 11/18/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	5.000	U
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

2A

WATER VOLATILE SURROGATE RECOVERY

0021

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLKG5	101	100	100		0
02	TCLP BL 11/17/90	106	102	101		0
03	TANK PIT A	98	101	99		0
04	TP-C	105	98	99		0
05	VBLKG8	98	97	104		0
06	TP-B	99	102	105		0
07	TCLP BLANK 11/16/90	97	96	104		0
08	TP-CFMS	98	102	105		0
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	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM 3
TCLP-TC Full Matrix Spike Recovery Form

Lab Name: YORK LABS/CT CONTRACT:

Lab Code: YORK Case No.: 0240 SDG:

Sample ID: TP-C

COMPOUND	Spike Added (ug/L)	Sample Concentration (ug/L)	Spike Concentration (ug/L)	Percent Recovery
Benzene	50	0	51	102
Carbon Tetrachloride	↓	↓	52	104
Chlorobenzene			50	100
Chloroform			49	98
2-Butanone			61	122
Tetrachloroethene			50	100
Trichloroethene			68	136
Vinyl Chloride			40	80
1,2-Dichloroethane			54	108
1-Dichloroethene	↓	↓	47	94

4A

VOLATILE METHOD BLANK SUMMARY

0023

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Lab File ID: >G8535 Lab Sample ID:

Date Analyzed: 11/18/90 Time Analyzed: 09:58

Matrix: WATER Level: (low/med) LOW

Instrument ID: G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TCLP BL 11/17/90	10/17/90	>G8545	14:38
02	TANK PIT A	0240003	>G8546	15:11
03	TP-C	0240002	>G8548	16:16
04				
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RAS 11/24/90

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

0024

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Lab File ID: >G8589 Lab Sample ID:

Date Analyzed: 11/20/90 Time Analyzed: 12:37

Matrix: WATER Level: (low/med) LOW

Instrument ID: G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TP-B	0240001	>G8590	13:23
02	TCLP BLANK 11/16/90	11/16/90	>G8591	13:55
03	TP-CFMS	0240002FMS	>G8595	16:15
04				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG5

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

0081

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8535

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/18/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	5.000	U
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TCLP BL 11/17/90

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

0085

Matrix: (soil/water) WATER Lab Sample ID: 11/17/90

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8545

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/18/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	3.000	J
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG8

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

0090

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8589

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/20/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	5.000	U
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TCLP BLANK 11/16/90

0094

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix: (soil/water) WATER Lab Sample ID: 11/16/90

Sample wt/vol: 5 (g/mL) ML Lab File ID: >G8591

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/20/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.000	U
74-83-9	Bromomethane	10.000	U
75-01-4	Vinyl Chloride	10.000	U
75-00-3	Chloroethane	10.000	U
75-09-2	Methylene Chloride	5.000	U
67-64-1	Acetone	10.000	U
75-15-0	Carbon Disulfide	5.000	U
75-35-4	1,1-Dichloroethene	5.000	U
75-34-3	1,1-Dichloroethane	5.000	U
540-59-0	1,2-Dichloroethene (total)	5.000	U
67-66-3	Chloroform	5.000	U
107-06-2	1,2-Dichloroethane	5.000	U
78-93-3	2-Butanone	10.000	U
71-55-6	1,1,1-Trichloroethane	5.000	U
56-23-5	Carbon Tetrachloride	5.000	U
108-05-4	Vinyl Acetate	10.000	U
75-27-4	Bromodichloromethane	5.000	U
78-87-5	1,2-Dichloropropane	5.000	U
10061-01-5	cis-1,3-Dichloropropene	5.000	U
79-01-6	Trichloroethene	2.000	J
124-48-1	Dibromochloromethane	5.000	U
79-00-5	1,1,2-Trichloroethane	5.000	U
71-43-2	Benzene	5.000	U
10061-02-6	trans-1,3-Dichloropropene	5.000	U
75-25-2	Bromoform	5.000	U
108-10-1	4-Methyl-2-Pentanone	10.000	U
591-78-6	2-Hexanone	10.000	U
127-18-4	Tetrachloroethene	5.000	U
79-34-5	1,1,2,2-Tetrachloroethane	5.000	U
108-88-3	Toluene	5.000	U
108-90-7	Chlorobenzene	5.000	U
100-41-4	Ethylbenzene	5.000	U
100-42-5	Styrene	5.000	U
1330-20-7	Xylene (total)	5.000	U

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

0073

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Lab File ID (Standard): >G8534 Date Analyzed: 11/18/90

Instrument ID: G Time Analyzed: 08:43

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	26837	10.57	130909	12.98	97432	20.20
	UPPER LIMIT	53674		261818		194864	
	LOWER LIMIT	13419		65455		48716	
	EPA SAMPLE NO.						
01	VBLKG5	24859	10.48	122427	12.89	94173	20.11
02	TCLP BL 11/17/90	25360	10.60	121487	12.98	89568	20.17
03	TANK PIT A	22746	10.60	104567	13.06	84162	20.20
04	TP-C	28966	10.61	148140	13.02	99532	20.22
05							
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22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.

LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk area.

FORM VIII VOA

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

0074

Lab Name: YORK LABS/CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Lab File ID (Standard): >G8587 Date Analyzed: 11/20/90

Instrument ID: G Time Analyzed: 10:52

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	30040	10.68	149364	13.10	112038	20.25
	UPPER LIMIT	60080		298728		224076	
	LOWER LIMIT	15020		74682		56019	
	EPA SAMPLE NO.						
01	VBLKG8	28812	10.68	144470	13.10	110984	20.23
02	TP-B	29403	10.64	146690	13.06	110135	20.23
03	TCLP BLANK 1111G90	29786	10.67	141097	13.07	111144	20.30
04	TP-CFMS	28325	10.69	137716	13.10	105142	20.27
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22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.

LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk area.

FORM VIII VOA

METALS DATA

CLIENT:	RADIAN CORPORATION
PROJECT ID:	HAZELTINE
SDG #:	Z0240
YWC ID:	3091-0240

0107

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0240001~~ TP-B

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix (soil/water): WATER Lab Sample ID: ~~TP-B~~ 0240001

Level (low/med): LOW Date Received: 11/15/90

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	29.0	U		P
7440-39-3	Barium	204			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	17.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	2.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	45.0	U		P
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: TCLP LEACHATE

11/26 DMJ

0108

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0240002~~ TP-C

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix (soil/water): WATER Lab Sample ID: ~~TP-C~~ 0240002

Level (low/med): LOW Date Received: 11/15/90

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	29.0	U		P
7440-39-3	Barium	187	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	17.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	2.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	45.0	U		P
7440-22-4	Silver	4.1	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

lor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

omments: TCLP LEACHATE

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

~~SE40015~~ TP-CS 11/26 BMC

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	1914.3500		29.0000	U	2000.00	95.7		P
Barium	75-125	2186.0200		203.5100		2000.00	99.1		P
Beryllium									NR
Cadmium	75-125	51.9300		2.0000	U	50.00	103.9		P
Calcium									NR
Chromium	75-125	205.5900		5.4500	B	200.00	100.1		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	471.4800		17.0000	U	500.00	94.3		P
Magnesium									NR
Manganese									NR
Mercury	75-125	48.8000		2.0000	U	50.00	97.6		CV
Nickel									NR
Potassium									NR
Selenium	75-125	1950.1000		45.0000	U	2000.00	97.5		P
Silver	75-125	53.5200		3.0000	U	50.00	107.0		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

nments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Matrix (soil/water): Level (low/med):

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

mments:

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

ICP ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic			-77	-107.5		-81	-24.3	
Barium		466	7	479.8	103.0	6	497.2	106.7
Beryllium								
Cadmium		900	-3	912.8	101.4	-3	930.8	103.4
Calcium								
Chromium	53	532	21	505.5	95.0	22	518.0	97.4
Cobalt								
Copper								
Iron								
Lead		4710	26	4427.2	94.0	22	4451.0	94.5
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium			129	133.2		92	93.0	
Silver		1010	-6	933.8	92.5	-4	948.2	93.9
Sodium								
Thallium								
Vanadium								
Zinc								

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

ICP ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic			194	181.0		231	138.7	
Barium		466	5	480.7	103.2	4	480.2	103.0
Beryllium								
Cadmium		900	-6	891.7	99.1	-5	891.3	99.0
Calcium								
Chromium	53	532	24	492.9	92.7	24	491.8	92.4
Cobalt								
Copper								
Iron								
Lead		4710	32	4427.6	94.0	39	4429.4	94.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium			60	65.5		92	28.8	
Silver		1010	-2	952.0	94.3	-2	946.8	93.7
Sodium								
Thallium								
Vanadium								
Zinc								

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BLANKS

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	29.0	U	29.0	U	29.0	U			29.0	U	P
Barium	15.0	U	15.0	U	15.0	U			15.0	U	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U			2.0	U	P
Calcium											
Chromium	4.0	U	4.0	U	4.0	U			4.0	U	P
Cobalt											
Copper											
Iron											
Lead	17.0	U	17.0	U	17.0	U			17.0	U	P
Magnesium											
Manganese											
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	CV
Nickel											
Potassium											
Selenium	45.0	U	45.0	U	45.0	U			45.0	U	P
Silver	3.0	U	3.0	U	3.0	U			3.0	U	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab Name: YORK LABS / CT Contract:

Lab Code: YORK Case No.: 0240 SAS No.: SDG No.: Z0240

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	29.0	U	29.0	U	29.0	U			29.0	U	P
Barium	15.0	U	15.0	U	15.0	U			15.0	U	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U			2.0	U	P
Calcium											
Chromium	4.0	U	4.0	U	4.0	U			5.5	B	P
Cobalt											
Copper											
Iron											
Lead	17.0	U	17.0	U	17.0	U			17.0	U	P
Magnesium											
Manganese											
Mercury			0.2	U					0.2	U	CV
Nickel											
Potassium											
Selenium	45.0	U	45.0	U	45.0	U			45.0	U	P
Silver	3.0	U	3.0	U	3.0	U			3.0	U	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											