Spill #9411938
Roch.
Monroe Co.

Galson CORPORATION

6601 Kirkville Road
E. Syracuse, NY 13057
Tel: (315) 432-0506
FAX: (315) 437-0509

November 3, 1995

Mr. Michael Zamiarski
NYS Dept. of Environmental Conservation
Region 8
6274 Avon-Lima Rd.
Avon, NY 14414

Re: The Gleason Works
Draft Tank Closure Report
Tanks 1 & 2
Galson Project No. 95L3079

Dear Mr. Zamiarski:

Enclosed please find a copy of the tank closure report for Tank 1 and Tank 2. If you have any questions or require further information, please call.

Sincerely,

Galson Corporation

Thomas W. Moran, PE
Project Manager

cc: T. Freeman - Gleason Works (w/report)
S. Fein - Whiteman, Osterman & Hanna (w/report)

Galson CORPORATION

Tank Closure Report
Tank 1 & Tank 2
NYSDEC Spill #9411938
The Gleason Works
1000 University Avenue
Rochester, New York 14692

The Gleason Works, located at 1000 University Avenue, Rochester, New York, is a manufacturer of gear-cutting machines. The firm has been undergoing a voluntary tank closure and modification program. Included in this program are two underground storage tanks (USTs) (Tank 1 and Tank 2) located on the western end of the property (see Figure 1).

Tank System Description

This system consisted of two 2,000-gallon USTs and associated appurtenances. Tank 1 contained naphtha, and Tank 2 contained lacquer thinner. Both of these tanks were located outside the west building wall, near the assembly shop floor area, and were installed in 1982. Tanks 1 and 2 had their contents extracted for use by a hand pump arrangement, whose spigots are located over a steel basin. This basin drained to the water pump under the adjacent paint spray booth.

Tanks 1 and 2 were to be closed in place due to their proximity to the building foundation wall. The volume of naphtha and paint thinner used at the facility has been dramatically reduced compared with the usage rates from the time that the tanks were originally installed. The replacement for these two tanks therefore consists only of a fire cabinet and small, fire-safe cans.

Tank Closure Procedure

The tanks were closed in accordance with the requirements of 40 CFR 280 Subpart G. The closure was performed in August 1994 by Allwash under contract to Gleason. Remaining product in the tank was removed for use elsewhere in the facility. No sludge was found to be present at the bottom of the tank. The interior of the tanks was sprayed with high-pressure washers and rinsed with citrol degreaser. The wash water was drummed for proper disposal (see Materials Disposition). The tanks were left empty pending successful closure documentation sampling. All tank piping and associated fittings, including supply piping to the sink inside the building, vent piping outside the building, and connecting underground piping to the USTs, were cleaned and removed.

Materials Disposition

The wash water from cleaning the tanks was containerized in a 55-gallon drum. It was shipped off-site for disposal to Petro-Chem Processing, Inc., Michigan DNR manifest No. MI 3048454 (see attached copy).

The tank piping and associated fittings were cleaned and removed from the site as scrap metal and sent to Frank Metal.

Closure Documentation

The closure documentation efforts for Tanks 1 and 2 consisted of two investigations.

Initial Investigation (August 1994)

The initial investigation consisted of soil borings near the tanks. Visual inspection of the tanks could not be performed since they were being closed in place. However, the soil borings that occurred during soil sampling were performed to determine any contamination.

Field Procedure

Two soil borings were advanced near the tanks (see Figure 2). Soil vapor headspace was evaluated with a HNu from split spoons during drilling. Two soil samples were selected from these borings for analysis of New York State Department of Environmental Conservation (NYSDEC) STARS list volatiles by EPA Method 8021. These two samples were selected based upon elevated HNu readings. The first sample (from boring TB2) was collected northwest of Tank 1 at a depth interval of 8 to 10 feet below grade. At 170 parts per million (ppm), it had the highest HNu reading in that boring. The second sample (from boring TB3) was southwest of Tank 2 at a depth interval of 10 to 10.2 feet below grade. This interval had the highest HNu reading, at 100 ppm. Boring refusal was at 12.2 feet for TB2 and 11.2 feet for TB3 (see Attachment A).

Laboratory Analysis

Laboratory analysis was performed by EPA Method 8021 (NYSDEC STARS list volatiles). The results of the soil sample analyses yielded values of volatiles summarized below (see Attachment B).

Results

The following table summarizes the laboratory results for parameters detected in either one of the samples submitted. All data are in micrograms per kilogram (µg/kg).

Compound	TB2	TB3	NYSDEC STARS Alternative Guidance Value
n-Butylbenzne	< 270	230	
Ethylbenzene	5600	2300	100
Isopropylbenzene	< 270	200	
n-Propylbenzene	< 270	600	100
Toluene	< 270	6400	100
Trimethylbenzene	< 270	1400	
m,p-Xylene	6000	1600	100
o-Xylene	2000	680	100

These values indicated one or more compounds were above the Guidance Value for designation as clean soil. The findings of this investigation were reported to NYSDEC Region 8. The Petroleum and Chemical Bulk Storage group assigned the release Spill Number 9411938.

The results of this initial investigation and assigned spill file warranted additional investigation to further determine the nature and extent of the contamination. Due to practical and financial considerations, it was agreed upon by Gleason and NYSDEC Region 8 that this follow-up investigation would be performed in conjunction with other investigative efforts on-site.

Additional Investigation (September 1995)

The additional investigation, to determine the lateral and vertical extent of the contamination, consisted of Geoprobe borings, HNu and field gas chromatograph (GC) headspace screening, and laboratory analyses of selected soil samples.

Sampling Procedure

Test borings were completed by Geoprobe drilling method, which was used because of the minimal amounts of waste it would produce and because it is typically considerably faster than conventional drilling methods (such as hollow stem auger).

Boring locations were sited interactively based upon results of HNu and field GC soil headspace results. Initial boring locations were sited near the USTs and progressively moved outward in a radial pattern until no, or minimal, detection of contamination was observed. The resultant pattern and specific boring locations are presented in Figure 3.

Soil screening sampling with a Geoprobe was accomplished in 4-foot intervals, with 2-foot intervals screened with an HNu. Samples were submitted for field GC analysis based on elevated HNu readings and visual or olfactory evidence of contamination. Selected soil samples were submitted for laboratory analysis. Soil boring logs were completed for each borehole (see Attachment C).

Field Analysis

Soil headspace was evaluated by two methods in the field. Hnu (photoionization detector, 10.2 eV lamp) data were collected by placing the probe in the soil sample container reserved for field analyses. Based upon HNu results, soil sample containers were forwarded to the on-site GC for additional analyses. The GC was calibrated against known standard solutions. Soil sample headspace was extracted directly by hollow needle through the sample vial top. This vapor sample was directly injected into the GC.

Laboratory Analysis

Laboratory analysis was conducted on selected soil samples based on the results of the field sampling. Five of the samples analyzed were selected from the outer boundary of where there appeared to be little or no contamination. The sixth sample (TB4) was from the area of apparently higher contamination, based on field screening results. A total of six samples were analyzed by Method 8021 for NYSDEC STARS list VOAs with MEK; two of these samples were also analyzed by EPA Method 8270 for NYSDEC STARS semivolatiles. A third analytical method consisted of NYSDEC STARS VOA (with MEK) and semiVOA analyses of a TCLP extract of a sample.

Discussion of Results

Figure 3 shows the boring locations with corresponding HNu readings and GC results. Table 1 summarizes the analytical results for the samples submitted. The laboratory results, including on-site GC screening, are included in Attachment D.

The laboratory results from the additional investigation yielded values less than the Guidance Value concentrations under NYSDEC STARS for the presumed noncontaminated areas, coinciding with the field screening results. Based upon the results, it can be inferred that the area of potential contamination is less than the extent of this additional investigation.

In addition, the sample taken from the presumed area of contamination (B-4) showed volatile organic compounds (VOCs) to be less than the NYSDEC STARSGuidance Values. The semivolatile organic compound analytical results showed all compounds below detection limits (although some detection limits are greater than the Guidance Values). This indicates that the field screening methods were more conservative in results. The laboratory data also indicate that the area of potential contamination does not extend away from Tanks 1 and 2 as far as boring TB4.

The results from the more conservative field screening analysis indicated that potential contamination from the tanks was located in an area to the north-northwest. The depth of the contamination was located at 8 to 12 feet below grade, with overall thickness of potential contamination approximately 1 foot. At these refusal depths, the highest readings with the HNu were taken at a maximum of 200 ppm.

Conclusions

The results from the initial investigation concluded that there was contamination found near (within 10 feet) the USTs, based on the results from borings TB2 and TB3. Based on the additional investigation, field screening during the soil borings showed low amounts or nondetectable amounts of contamination to the south, west, and north of the USTs. Field screening indicated some level of potential contamination close to the tanks. Laboratory data confirmed the presence of contaminants, but at low concentrations, less than NYSDEC STARS Guidance Values, even for the sample of the presumed contaminated area. Likewise, the analyses of the TCLP extract show no detectable levels for any of the guidance document potential semiVOA contaminants.

Tanks 1 and 2 should be closed out as a clean closure, and the spill file should be closed. This conclusion is based on the findings during the initial and additional investigations of minimal concentration of contaminants localized to the immediate vicinity of the tanks. It is also based on the consideration that the entire area is covered by pavement or building.

Due to the location of the USTs (their proximity to the building foundation), the USTs are to be filled in place with concrete as a mechanical closure.

Table 1
Tanks 1 & 2 Laboratory Analysis
The Gleason Works
Additional Investigation Program
Galson Project No. 95L3079
September 13 & 14, 1995

Location	Volatile Organic Compounds (VOCs)		
Depth (ft)	Compound	Alt. Guidance Value (ppb)	Sample Result (ug/kg)
TB-4	Ethylbenzene	100	64.0
10.5-11.0	n-Propylbenzene	100	11.0
	Toluene	100	7.1
	1,2,4-Trimethylbenzene	100	12.0
	1,3,5-Trimethylbenzene	100	6.8
	m,p-Xylene	100	48.0
	o-Xylene	100	7.5
TB-10	Toluene	100	0.9
11.0-11.9			
TB-12	Benzene	14	1.2
10.0-11.3	Toluene	100	1.9
	m,p-Xylene	100	0.8
TB-16	Toluene	100	1.7
9.0-10.0	m,p-Xylene	100	1.2
TB-17	Ethylbenzene	100	58.0
11.5-12.0	m,p-Xylene	100	15.0
TB-18	Toluene	100	1.6
10.0-10.8	m,p-Xylene	100	1.1

THE GLEASON WORKS - TANKS 1 & 2

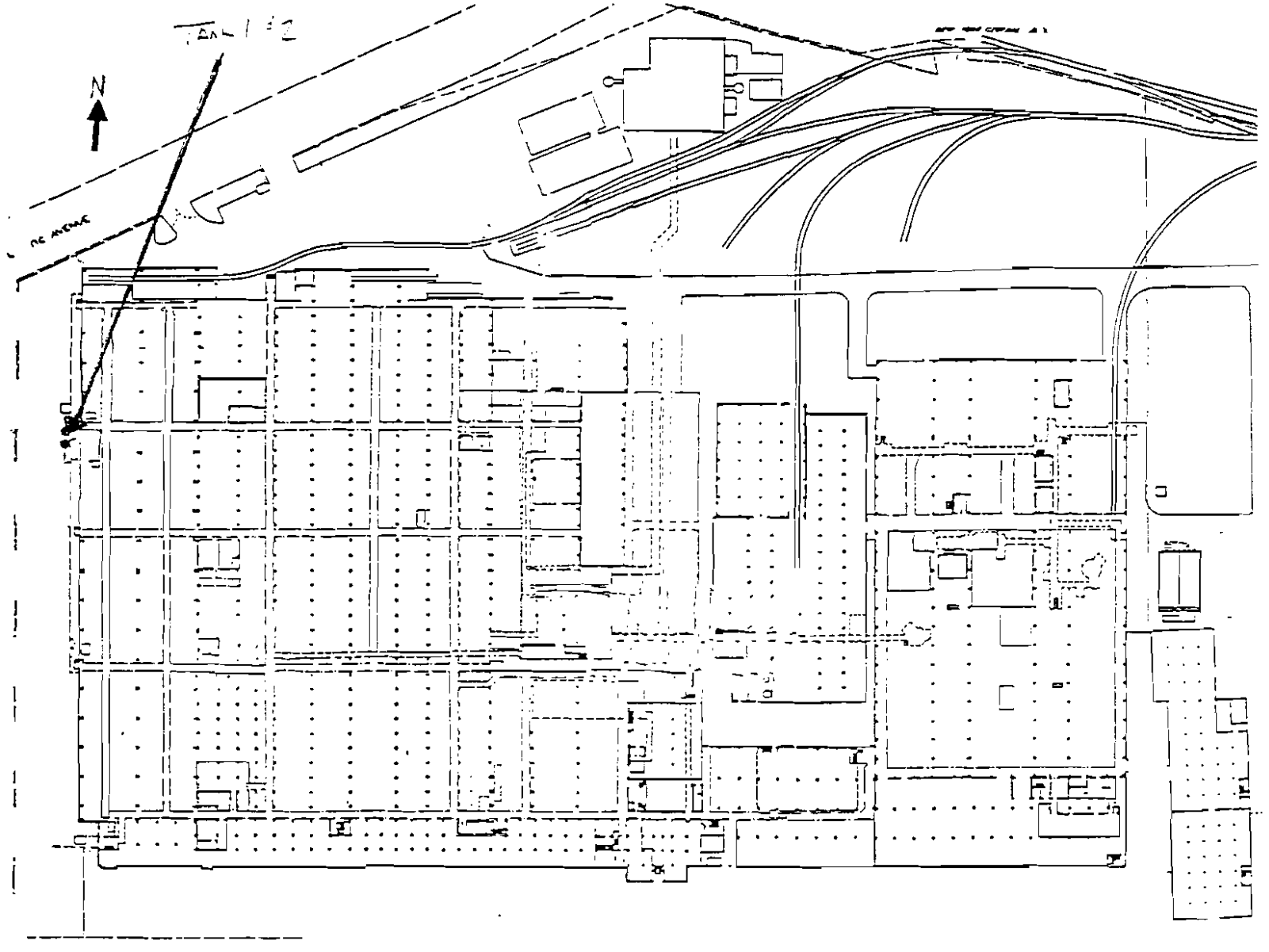
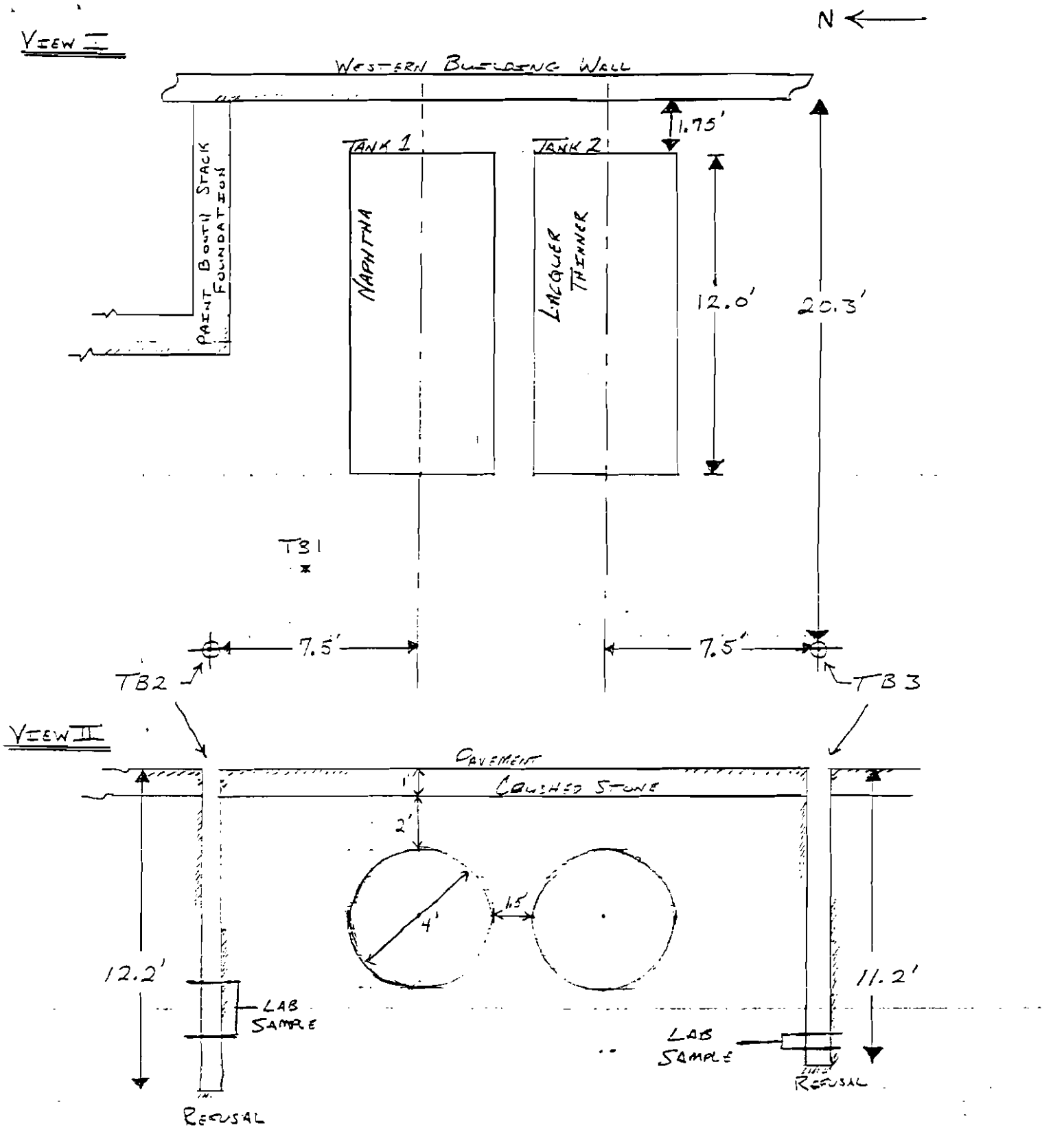
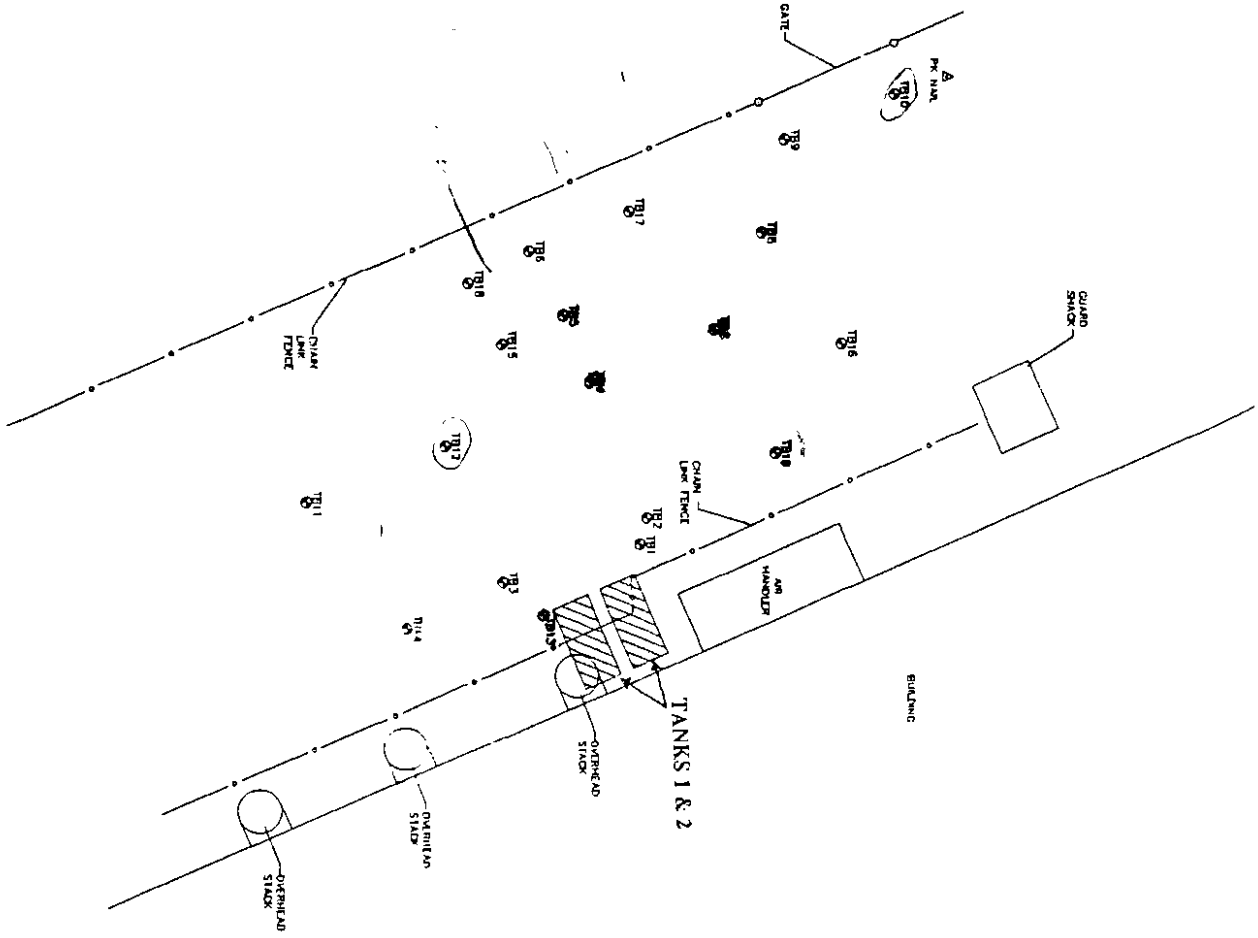


FIGURE # 1

(TANK LOCATION)



Galson CORPORATION Engineers/Architects E. Syracuse, NY Rochester, NY	JOB NUMBER: GQ242, TANKS #1 & #2 (USTs) FIGURE 2			
	DATE: SEPTEMBER 6, 1994	CALC. BY	PROJECT: THE GLEASON WORKS TANK CLOSURE	PAGE 1



GRAPHIC SCALE

FIELD SCREENING DATA

ID	DEPTH(ft)	HNu(ppm)	GC(ppm)
TB1	ABANDONED AT START		NA
TB2	8.0–10.0	170	NA
TB3	8.0–10.0	110	NA
TB4	10.5–11.0	200	55.0
TB5	10.0–11.0	200	1.6
TB6	11.0–12.0	<2	0.1
TB7	9.0–10.0	200	12.0
TB8	11.0–12.0	200	25.0
TB9	11.0–12.0	13	0.5
TB10	11.0–12.0	<1	ND
TB11	10.0–11.0	<1	ND
TB12	10.0–11.0	<1	ND
TB13	8.5–9.5	200	6.0
TB14	8.5–9.5	<2	ND
TB15	10.5–11.0	<1	ND
TB16	9.0–10.0	3	ND
TB17	11.5–12.5	50	5.7
TB16	10.0–10.6	3	9.5
TB19	11.0–11.5	100	6.9

ND NON-DETECT
NA NOT AVAILABLE

BORING LOCATIONS MAP

GLEASON WORKS
1000 UNIVERSITY AVENUE
ROCHESTER, NEW YORK 14607

BORING LOCATIONS (RUSSELL STREET

SHEET NO 2
FILE NO 44355

LOZIER ENGINEERS, INC.

1600 PITTSFORD-VICTOR ROAD, PITTSFORD N.Y. 14534

SYRACUSE, NEW YORK CITY, ALBANY, PHILADELPHIA

DRAWN	DESIGNED	CHECKED	REFERENCE
L. WATSON			
DATE	SCALE	PROJECT NO.	
4/95	1"=10'	1831-016	
		1831160LDWG	

REVISIONS NO.	DESCRIPTION	DATE	BY

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD002205755 Manifest Document No. 00333

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
GLEASON WORKS (ATTN: H.R. ALLEN)
1000 UNIVERSITY AVENUE, P.O. BOX 22970
ROCHESTER, NY 14692-2970

A. State Manifest Document Number MI 3048454

B. State Generator's ID [illegible]

4. Generator's Phone (716) 473-1000

5. Transporter 1 Company Name THE ENVIRONMENTAL SERVICE GROUP (NY), INC.

6. US EPA ID Number NYD986903904

C. State Transporter's ID 71596ENV

D. Transporter's Phone (716) 695-6720

7. Transporter 2 Company Name The Environmental Service Group

8. US EPA ID Number WVN981690390

E. State Transporter's ID 87992ZNV

F. Transporter's Phone 716-695-6720

9. Designated Facility Name and Site Address
PETRO-CHEM PROCESSING, INC.
421 LYCASTE STREET
DETROIT, MI 48214

10. US EPA ID Number MID981061529

G. State Facility's ID

H. Facility's Phone (313) 824-5840

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, PG III (D018, D035)	002	DM	01245	P	D018	H
b.	X	HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III (OIL, CONTAINS SOME 1,1,1 TRICHLOROETHANE)	004	DM	01760	P	F002	H
c.	X	RQ, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, UN1993, PG II (D001, D018, NAPTHA, LACQUER THINNER)	001	DM	00135	P	F005	H
d.								

J. Additional Descriptions for Materials Listed Above
a) U35773 SOLIDIFIED CATALYZED URETHANE PAINT (D035)
b) U43097 USED OIL WITH H.O.C.s
c) UF50596 USED CLEANING SOLVENT - FLAMMABLE (D001, D018, D035)

K. Handling Codes for Wastes Listed Above
NYS CODES:
a) B c) B
b) B

a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
EMERGENCY RESPONSE: CALL INFOTRAC AT 1-800-535-5053. SEE ATTACHED FORMS.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date Month Day Year
Herbert R. Allen	Herbert R. Allen	01 11 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Michael LeBaron	Michael LeBaron	01 11 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Michael LeBaron	Michael LeBaron	01 17 94

19. Discrepancy Indication Space
[illegible] Transferred Solvent Contained [illegible] TECHNOLOGIES [illegible] Date 01/19/94

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
[illegible]	[illegible]	01 19 94

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev. 10/92

GENERATOR

TRANSPORTER

FACILITY

ALL FIELDS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

Attachment A

GALSON CORPORATION
SAMPLING LOG

PROJECT: The Gleason Works
UST/AST Bulk Storage Closure
LOCATION: 1000 University Avenue
Rochester, New York

CLIENT: The Gleason Works
DATE(S): 3/15/94
JOB NUMBER: GO-242
TASK: T1-2
TIME(S):

SAMPLE I. D.: TB2

SAMPLE LOCATION: W/in Secondary Berm
Tank #2 NW of Main Tank
20'N, 75'W

DEPTH: (12.2' Fill) Sample @ 2-4'

DESCRIPTION: Brown Clay 2-6.5' Med
6.5' Sandy layer w/ gravel
Dark Brown Clay w/ Gravel

9-95 - Med?
95 - Sandy Layer w/ gravel
Dark Brown clay w/ gravel

SAMPLING METHOD USED: Auger / Split Spoon

Auger / Split Spoon

LIST OF CONTAINERS AND AMOUNT SAMPLED:

COMMENTS: Hit 170 ppm

SAMPLED BY: [illegible]

PAGE ____ OF ____

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Galson Test Program (T-2)

LOCATION T32

(N.W. of Nelson Tank)

JOB NUMBER G9242 T-2

WELL DIAMETER

G W DEPTH NA

SHEET 1 OF 2

DATE(S) DRILLED 8/15/90

DRILLING METHOD Auger

TOTAL DEPTH 12.2'

DRILLING CO. Layne Water

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
0	0.5	1	<1	Fine Sand/Silt		6" Vented
				Dark Brown		
1		7		Moderate Sand/Gravel		Headspace .5-2 : <1 ppm
2	2.0	3		Poorly Sorted		
				Clay to Gravel Sediment		
		4	<1			
3		6				H S 2-4 : <1
		7				
4	4.0			Brown, Clay		
		3				
5		3	<1			H S 6-7.1 : <1
		5				6-8 : <1
		6				
6	6.0	15	<1	Brown, Damp, Clay		
		30				
7	7.1	50/.1				10-20 at T-9.
		~~16~~				
8	8	16	170	Brown clay		170 was at bottom of spoon
				8 - 9.5' med.		
9		11		9.5 sandy layer w/ gravel		8-10' Sample Taken
		13				
		16		Dark Brown clay w/ gravel		
10	10					H.S. 10-10.3 : 110 ppm

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD ASTM D- 1586-67

LOGGED BY Nathan Engelman

BORING NUMBER B-T#2

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT _____

LOCATION _____

JOB NUMBER GG 243

WELL DIAMETER _____

G W DEPTH _____

SHEET 2 OF 2

DATE(S) DRILLED 8/15/91

DRILLING METHOD Rotary

TOTAL DEPTH _____

DRILLING CO. Parratt Wolff

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
11	10.0 10.3	75/.3	140	Dark Brown clay matrix w/ med grain sand		Refusal @ 10.3 6" yield.
12	12.0 12.2	75	>20	-angular Rock Fragment at Bottom of Sample (12.2') Wet/Saturated Clay		OVA Reading 20 on 0-20 Scale, Switched to 0-200 Scale & Read 140 Headspace 12-12.2' 110-140 ppm
13						
14						
15						

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD ASTM D- 1586-67

LOGGED BY Heather Kaczmarek

BORING NUMBER TB-2

GALSON CORPORATION
SAMPLING LOG

PROJECT: The Gleason Works
UST/AST Bulk Storage Closure

LOCATION: 1000 University Avenue
Rochester, New York

CLIENT: The Gleason Works

DATE(S): 8/15/01

JOB NUMBER: GO-242

TIME(S): 1:50

TASK: T1T2

SAMPLE I. D.: TB3

SAMPLE LOCATION: West of Plant
Tank 1 & 2 SW of Tank
20' N, 75' E

DEPTH: 10' - 10.2'

DESCRIPTION: Clay / Sand
Wet 6" Layer of Gravel

SAMPLING METHOD USED: Auger / Hand Spoon

LIST OF CONTAINERS AND AMOUNT SAMPLED:

COMMENTS: N/A: Avg = 90 ppm

SAMPLED BY: Nelson / Gleason

PAGE ____ OF ____

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Groton Tank Closure TT2

LOCATION TB #3

(S.W. of Tenner Tank)

JOB NUMBER [illegible]

WELL DIAMETER

G W DEPTH NA

SHEET 1 OF 2

DATE(S) DRILLED 8/5/94

DRILLING METHOD Auger

TOTAL DEPTH 11.2'

DRILLING CO. Factor Wells

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
	.5	NA		Brown Silt		1' Yield
		6	<1	Some Clay		
1		10				Headspace .5-2' : <1
		8				
2	2.0					
		3		Sand, Med → Fine Grain		6" Yield
		4		Gravel		
3			<1	[Through Piece of Cement		Concrete 3.0 Ft
		2		And Red Brick]		
						H.S. 2'-4' : 20 ppm
4	4.0	14				
		2		Brown		
		4	<1	Damp / Clay		
5				6" of Black / Asphalt Debris		
		4		1.5' of Clay / Damp		H.S 4'-6' : <1
		7				
6	6.0					
		7		Clay, Damp Brown		
		9				
7			7.0			Last 4" of 2' Sample Different Material
		12				
				4", Sand (Coarse to Med.)		TB2 Had Same Layer @ 9.5 Ft
8	8.0	16		Dark Grayish Color		
						H.S 6-8' : 30 ppm

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD ASTM D- 1586-67

LOGGED BY [illegible]

BORING NUMBER TB #3

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Galson

LOCATION TB 3

JOB NUMBER Gw 243

DATE(S) DRILLED 8/15/94

WELL DIAMETER

DRILLING METHOD

G W DEPTH N/A

TOTAL DEPTH

SHEET 2 OF 2

DRILLING CO.

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	OVA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
6		7		CLAY / DARK		STRONG ODOR
				LAST 6" CLAY W/ GRAVEL		
8		11	110	AVERAGE OVA = 90 ppm		H2S 5'-10' = 200 ppm 250 ppm
		11				
		42				SAMPLE
10	10.0					
	10.2	75	90	CLAY/SAND/& GRAVEL		STRONG ODOR
11	11.0					
	11.2	REFUSAL	36	POORLY SORTED		4" WEED
				ROCK FRAGMENTS		REFUSAL @ 11.2'
						HEADSPACE 11'-11.2' = 110 ppm

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD ASTM D- 1586-67

LOGGED BY

BORING NUMBER TB2

Attachment B

Galson Laboratories

GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12021
Site : Gleason Tank Removal

Date Received : 16-AUG-94
Date Sampled : 15-AUG-94

Matrix : Soil
Method : SW846/8021
Units : UG/KG

Galson ID:	L19420-1	L19420-2	QC8081894-1
Client ID:	TB3	TB2	METHOD BLANK
Benzene	<140	<270	<25
n-Butylbenzene	230	<270	<25
sec-Butylbenzene	<140	<270	<25
tert-Butylbenzene	<140	<270	<25
Ethylbenzene	2300	5600	<25
Isopropylbenzene	200	<270	<25
p-Isopropyltoluene	<140	<270	<25
Naphthalene	<140	<270	<25
n-Propylbenzene	600	<270	<25
Toluene	6400	<270	<25
1,2,4-Trimethylbenzene	650	<270	<25
1,3,5-Trimethylbenzene	750	<270	<25
m,p-Xylene	1600	6000	<25
o-Xylene	680	2000	<25
Percent Moisture (%)	9	9	NA
Dilution Factor	5	10	1
Analysis Date	08/18/94	08/18/94	08/18/94
Method Blank	QC8081894-1	QC8081894-1	QC8081894-1

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :JT
Date :30-AUG-94
QC by : EJ
Date : 8/30/94

Footnotes:

Galson Laboratories

Inorganic ANALYTICAL REPORT

Client : Gleason Works
Account # : 12021
Site : Gleason Tank Removal

Date Received : 16-AUG-94 Matrix : Soil
Date Sampled : 15-AUG-94

Galson ID:			L19420-3
Client ID:			T15
	Method	Units	
Total Petroleum Hydrocarbo	418.1	mg/kg	<70

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :Mary Withrow
Date :23-AUG-94
QC by :
Date : 8/24/94

Footnotes:

SOIL MOISTURE ANALYSIS

LOGIN: L19420 QC BATCH: REFERENCE NUMBER: 449

Wet Weight by: CR
Date : 22-AUG-94
Time : 13:00

Dry Weight by: CR
Date : 23-AUG-94
Time : 9:30

GALSON ID	SAMPLE DESC	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	% SOLID
L19420-1	TB3	1.52	10.87	11.39	9.87	9.2	90.8
L19420-2	TB2	1.50	10.60	11.15	9.65	9.0	91.0

$$\text{Percent Moisture} = \frac{(\text{net wet weight}) - (\text{net dry weight})}{\text{net wet weight}} \times 100$$

08/23/94 09:47

SOIL GC VOLATILE SURROGATE RECOVERY

Client : Gleason Works

Login # : L19420

Level:(low/med) MED

SAMPLE NO.	SMC1 (FBZ)#	SMC2 ( )#	SMC3 ( )#	OTHER	TOT OUT
METHOD BLANK	104			H8P_08	0
TB3	27 *			H8P_08	1
TB2	41 *			H8P_08	1

QC LIMITS
(72-126)

SMC1 (FBZ) = Fluorobenzene

\# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Attachment C

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

B NUMBER 95L3079
NELL DIAMETER N/A
'V DEPTH N/A
EET 1 OF

DATE(S) DRILLED September 13, 1995
DRILLING METHOD Geoprobe 85T
TOTAL DEPTH 11.3 ft
DRILLING CO. Northeast

PTH	SAMPLE INTERVAL	SPOON BLOWS	µ/u (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
2				1' Pavement 2' Brown Sand (Dark) 1' Sand (Fine, Comp)		
4		3-4	<1		<1	3'-4' Interval
				Full Recovery Brown Mud Clay Typ. (Sand Mix)		
8		7-8	<1		<1	7'-8' Int
				3' Recovery		
			<2	Brown Clay (1.5') .5' Black, Gray	<2	8.5-10 0.0 ppm
			200	10.5'-11	200	10.5'-11 0.0 ppm
11.3				Refusal @ 11.3'		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneeman
BORING NUMBER TB4

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 95L3079
WELL DIAMETER NA
GW DEPTH NA
SHEET 2 OF

DATE(S) DRILLED September 13, 1995 9:3
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.1'
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNu (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				1.0' Fill		
2	2-4			2.5' Brown / Sand mix		Bag only
		2-4	<1			
4						
		5-6	<1	Brown Sand/Clay Mix		
6	4-6					
		7-8	<1			Bag only
8						
					<2	VOA / Lab
	8-11.1	9-10	<2	Brown Clay Fill		
		10-11	200	Not of .5-1 Gray Black Moist Clay	200	VOA / Lab
	11.1	11.1		Refusal		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD

LOGGED BY Scott Schneiderman

BORING NUMBER TB5

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 952 3079
WELL DIAMETER NA
G W DEPTH : NA
SHEET 3 OF

DATE(S) DRILLED September 13, 1995 10:10
DRILLING METHOD Geoprobe
TOTAL DEPTH 12.0'
DRILLING CO. Northwaste

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNu (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
	0-1.0 Fill			3.5 ft recovered		
2				Brown Dark Sand		
	3.0					
		3-4	<1	Med Brown Sand	<1	3-4 Bag
4				Fine clay		
	4-6	4-6	<1		<1	Jar
6				Brown Clay Tuff		
		6-8	<1	Sand mix	<1	Jar
8						
		9-10	<2	2.5'-3.0' clay	<2	VOA/Leb
10	8-12					
		11-12	<2	1st Sand	<2	VOA/Leb
12	Refusal			Refusal		

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schlesselman
BORING NUMBER TB6

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 95L3079
WELL DIAMETER NA
G.W DEPTH NA
SHEET 4 OF
DATE(S) DRILLED September 13, 1995
DRILLING METHOD Geoprobe
TOTAL DEPTH 10.7
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNu (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				1.0' Pavement		
4	4 - 6		<1	Clay Type Brown		
6	7 - 8		<1		<2	7-8 Jar
8	7 - 9		5.4	Brown Clay Type	5.4	8-9 V.I / ~~Lid~~ Jar
	9 - 10.9 ; 10.7		200	Rock	200 ppm	9-10 V.I / Lid

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schlesselman
BORING NUMBER TB7

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 95L3079
WELL DIAMETER NA
G W DEPTH NA
SHEET 6 OF

DATE(S) DRILLED September 13, 1995 1315
DRILLING METHOD Geoprobe
TOTAL DEPTH 12.0'
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				1' Fill		
2	0-4		<1	Brown Sand		
4						
	5-6		<1	Moist Brown Clay		
6						
	7-8		<1		<1	Clay
8						
				Moist		
	9.5-11'		<2	Clay Brown	<2	Void / Fill
					15	Void / Loose
	11-12		15	Sand / Gray		
				Refusal 12' 2"	5	Loose / Void
				2" of clay		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneeberger
BORING NUMBER TB9

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Wells
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 954 3079
WELL DIAMETER NA
GW DEPTH NA
SHEET 1 OF

DATE(S) DRILLED September 13, 1995 1400
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.9'
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
2				0-1.0' Clay		
4	5-6		<1	Brown Clay moist - wet		
					<1	Bag 7-8
6	7-8		<1			
8			<1	Moist/Saturated Sand 8-10?	<1	
		10-11	<1	Sand / Black	<1	V-d / Lab
10	11.9	11-11.9	<1	Refusal Clay Brown/Gray	<1	V-d / Lab

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Sallenbach
BORING NUMBER TB10

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JB NUMBER 95L3079
ELL DIAMETER NA
G W DEPTH NA
HEET 8 OF

DATE(S) DRILLED September 12, 1995 1430
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.3
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
2						
		5-5	<1	Brown Clay		
		7-8	<1	1.0' Sand/Mix Clay		
		9-10	<1	Wet/S- Clay Silt	<1	Wet
		10-11	<1	.5' Sand, fine to coarse Clay	<1	Wet/Lab
	11.3			Refusal		

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schlesinger
BORING NUMBER TB11

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

B NUMBER 954 3029
ELL DIAMETER NA
G W DEPTH NA
IEET 1 OF

DATE(S) DRILLED September 13, 1995 1540
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.3
DRILLING CO. Nothnagle

PTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				0-1 Fill		
2		1.5-2.5	<1	Black, Brown Sand Gravel		
4		3-4	<1	Brown, Silt Sand		
	5-6	5-6	<1	"		
6	6.5-8	6.5-8	-1	Moist Brown / Sandy Clay		
8						
		8.5-10	<1	Brown / Tan, Sandy Clay	<1	8.5-10 Wet / Sat
		10-11.3	<1	Black Sand Mix Brown Clay	-1	10.1-11.3 wet / sat
	11-3			Refusal		

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneeman
BORING NUMBER TB12

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

B NUMBER 95L3079
WELL DIAMETER NA
V DEPTH NA
EET 10 OF

DATE(S) DRILLED September 14, 1995
DRILLING METHOD Geoprobe
TOTAL DEPTH 9.3
DRILLING CO. Northeast

PTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
2				3.0' Brown		
				1.0 Fine		
				2.0 Brown Sand		
		3-4	41		3-4	Jar
4						
				Moist / Brown Sand		
		7-8	41		7-8	Jar
				Sand Brown		
				Fine Clay, Moist .5	2.5-4	Void / Gas
	9.3	8-9	200	Refusal		

ppm - parts per million in methane equivalents soil sample head space measurements

AMPLING METHOD Geoprobe
LOGGED BY Scott Schlegelmilch
BORING NUMBER TB13

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

B NUMBER 95L3079
WELL DIAMETER NA
W DEPTH NA
HEET 1 OF

DATE(S) DRILLED September 14, 1995
DRILLING METHOD Geoprobe
TOTAL DEPTH 9.5
DRILLING CO. Northeast

PTH	SAMPLE INTERVAL	SPOON BLOWS	(ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				1.0 Fill		
2				2.5-3.0' Brown Med Sand, Clay		
	3-4	3-4	21			
4				4-7.5 Brown Clay Fine Sand		
6						
		7-8	22	7.5-8 Brown Sand		
8				Brown Med Clay/Silt	2	5.5-9.5 V.J/LOG
		8.5-9.5	2	REFUSAL		
	9.5					

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneeman
BORING NUMBER TB-1

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 95L3079
WELL DIAMETER NA
TOP OF CASING DEPTH NA
SHEET 1 OF 2

DATE(S) DRILLED September 14, 1995 1020
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.7'
DRILLING CO. Northnorth

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNU (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
				1' gravel		
				2' Brown Moist Clay		
		3-4	<1		3-4	<1 ppm
				Brown Moist Silty Brown Clay		
		4.5-14.5	<1	Black Stained Brown gray Clayey Sand Some Gravel	<2	9.5-14.5' Wet/Cl
	9.5' Dk Brn Gray Sand	10.5-11.7	<1	Brown Silty Clay	<1	10.5-11.7 Wet/Cl
	11.7			Refusal		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneiderman
BORING NUMBER TB15

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 95L3079
WELL DIAMETER NA
WELL DEPTH NA
SHEET 1 OF 1

DATE(S) DRILLED September 14, 1995 10:50
DRILLING METHOD Geoprobe
TOTAL DEPTH 10.3
DRILLING CO. Northeast

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNu (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
	0 - 1			Poor recovery 1.5' gone		
2	1 - 2			Sand, Crushed Stone Fill		
	2 - 3					
	3 - 4					
4						
6	6 - 8			Wet, Shale Type 1' - 1.5' Recovered	21	
8				Rock, Crushed Brown Clay Type	21	
		9-10	3	Brown Sand/Clay	3 ppm	9-10 Wet/Lab
	10.3			Refusal		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schneeberger
BORING NUMBER TB16

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

3 NUMBER 95L3079
VELL DIAMETER NA
V DEPTH NA
EET 1 OF

DATE(S) DRILLED September 14, 1995 1130
DRILLING METHOD Geoprobe
TOTAL DEPTH 12.1
DRILLING CO. Northnodle

PTH	SAMPLE INTERVAL	SPOON BLOWS	HNU (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
	0-1			Pavement		
2				≈ 2.5' recovered		
	3-4			Sand & some Med Brown Silty Sand		
4						
	4-8		~1	Med, Brown Sand (fine - Silty)	<1 ppm	
				2.5 Recovered		
				8.5-10.5 Brown Med Sand	<2 ppm	8.5-10.5
			5+	11.5-12 Black Sand	50 ppm	11.5-12
	12.1			Refusal		
				11.6' water 11.5-12		

ppm - parts per million in methane equilvalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Seligheimer
BORING NUMBER TB17

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

B NUMBER 956079
WELL DIAMETER NA
N DEPTH NA
EET 1 OF

DATE(S) DRILLED September 14, 1995
DRILLING METHOD Geoprobe
TOTAL DEPTH 10.8
DRILLING CO. Nothnagle

PTH	SAMPLE INTERVAL	SPOON BLOWS	UNA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
	0-1			1' Fill		
	3-4			Brown Moist Sand		
4		3-4	<1			
				Moist - Wet		
		5-6	<1	Brown Sand		
			<1			
		7-8				
				Brown Wet Sand to Grey Sand	3' Recovery	
		7.6-9.6			2 ppm	Wet
		9.5-10		9.5-10 Sand	2 ppm	Wet / Cool
		10-10.8		10-10.8	3 ppm	Wet / Cool
	10.8			Refusal		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schlegelmilch
BORING NUMBER TB18

GALSON CORPORATION
TEST BOREHOLE / WELL LOG

PROJECT Gleason Works
Tanks 1 & 2
LOCATION Gleason Works
Rochester, NY

JOB NUMBER 952679
WELL DIAMETER NA
WELL DEPTH NA
SHEET 16 OF

DATE(S) DRILLED September 14, 1995
DRILLING METHOD Geoprobe
TOTAL DEPTH 11.8
DRILLING CO. Nothnagle

DEPTH	SAMPLE INTERVAL	SPOON BLOWS	HNA (ppm)	SOIL / ROCK CLASSIFICATION	PROFILE	NOTES
2			21	1.5' Recovered		
1						
	5.5-6.0			Red Brick Fill	21	Wet
	6-8		21	Moist Brown Sand		
5						
	9.5-10		1	Sand (Clean) Moist Brown Sand/Clay	100	Wet/Cl Ll-11
	10-11					
	11-11.5		100	4-5' Black Soft Moist Clay	100 ppm	Wet/Cobb 11-11.5
	11.8			Refusal 11.8		

ppm - parts per million in methane equivalents soil sample head space measurements

SAMPLING METHOD Geoprobe
LOGGED BY Scott Schlesinger
BORING NUMBER TB19

Attachment D

TABLE 2
SOIL HEADSPACE SCREENING RESULTS
TANKS 1 AND 2 INVESTIGATION PROGRAM
THE GLEASON WORKS

SAMPLE LOCATION	SAMPLE DEPTH (FT.)	DATE	BENZENE	TOLUENE	ETHYL-BENZENE	M-XYLENE	O-XYLENE	UNKNOWNS*	TOTAL VOC's (PPM) by G.C.	TOTAL VOC's (PPM) by HNu
TB-4	8.5-10	9/13/95	--	--	--	--	--	0.07	0.07	<2
	10.5-11	9/13/95	--	--	6.30	--	7.40	41.50	55.20	200
TB-5	9-10	9/13/95	--	--		--	0.01	0.03	0.04	<2
	10-11	9/13/95	--	--	0.22	--	0.09	1.16	1.47	200
TB-6	10-11	9/13/95	--	--	--	--	--	0.02	0.02	<2
	11-12	9/13/95	--	--	0.02	--	0.02	0.06	0.10	<2
TB-7	8-9	9/13/95	--	--	--	--	--	0.02	0.02	50
	9-10	9/13/95	--	--	--	--	1.90	10.00	11.90	200
TB-8	9-10	9/13/95	--	--	--	--	--	0.06	0.06	<2
	10-11	9/13/95	--	--	0.19	--	--	0.09	0.28	<20
	11-12	9/13/95	0.06	--	2.00	--	4.90	18.00	24.96	200
TB-9	9.5-11.5	9/13/95	--	--	--	--	--	--	ND	<2
	11-12	9/13/95	--	--	0.10	--	0.11	0.59	0.80	15
	12-12.2	9/13/95	--	--	--	--	0.02	0.48	0.50	5
TB-10	10-11	9/13/95	--	--	0.19	--	0.13	0.63	0.95	<1
	11-11.9	9/13/95	--	--	--	--	--	--	ND	<1
TB-11	10-11.3	9/13/95	--	--	--	--	--	--	ND	NS
TB-12	8.5-10.0	9/13/95	--	--	--	--	--	--	ND	NS
	10-11.3	9/13/95	--	--	--	--	--	--	ND	NS
TB-13	8.5-9	9/14/95	--	--	0.80	--	0.97	4.20	5.97	200
TB-14	8.5-9.5	9/14/95	--	--	--	--	--	--	ND	NS
TB-15	9.5-10.5	9/14/95	--	--	--	--	--	0.01	0.01	NS
	10.5-11	9/14/95	--	--	--	--	--	0.01	0.01	NS
TB-16	9-10	9/14/95	--	--	--	--	--	0.01	0.01	NS
TB-17	8.5-10.5	9/14/95	--	--	--	--	--	--	ND	NS
	11.5-12	9/14/95	--	--	0.83	--	1.00	3.90	5.73	NS
TB-18	8-9	9/14/95	--	--	--	--	0.02	0.11	0.13	NS
	9.5-10	9/14/95	--	--	--	--	--	0.05	0.05	NS
	10-10.8	9/14/95	--	--	--	--	--	--	ND	NS
TB-19	10-11	9/14/95	--	--	--	--	--	0.03	0.03	NS
	11-11.5	9/14/95	--	--	0.51	--	1.20	5.20	6.91	NS

NOTES:

1. ALL COMPOUNDS REPORTED IN mg/L OR PARTS-PER-MILLION (PPM).
2. ABBREVIATIONS:
   - G.C. - GAS CHROMATOGRAPH
   - NS - NOT SCREENED.
4. NOT DETECTED IS REPRESENTED BOTH AS "ND" AND "--".
5. * UNKNOWNS REFER TO UNIDENTIFIED NON-TARGET PETROLEUM COMPOUNDS.

Gaison Laboratories

6601 Kirkville Road East
E. Syracuse, New York 13057
315-432-0506 or 800-950-0506

Com Nam: Genesee Works

Project Name / Number: 95L3079/TSK2/PROJ

m-A ITin

[X] - Standard Service
[ ] - * Rush Service
Date requested by: _____
Ph # ( ) - -
Fax # ( ) - -

Page 1 of 1

Send Report to: Tom Williams

Send Invoice to: _____

P.O. # _____

Chain of Custody Record

SAMPLE ID	Date	Time	TYPE: Comp.	Grab	Aqueous	Soil	Other	ID Number	PARAMETERS FOR ANALYSIS: VOA 21 STARS w/ MEK	Semi-VOA STARS	TCLP Extract Polymers	8A STARS VOA (with methanol) VOA
TB16 (9-10)	9/14			X		X		125705-1	X			
TB10 (11-11.9)	9/13			X		X		125705-2	X	X		
TB17 (11.5-12)	9/14			X		X		125705-3	X			
TB18 (10-10.8)	9/14			X		X		125705-4	X			
TB12 (10-11.3)	9/13			X		X		125705-5	X	X	X	per Scott Schulman
TB4 (10.5-11)	9/13			X		X		125705-6	X	X	X	per Tom Matera 9/16/95 4:35
TB19 (11-11.5)	9/14			X		X		125705-7				
								1-11.5				

alphaanalytech

REMARKS: PLEASE RUN 8 STARS VOAs (w/MEK) AND SEMI-VOA PLUS STARS VOAs (w/MEK) + Semi-VOA OF A TCLP EXTRACT FOR SAMPLE TB4. IF SAMPLE MATERIAL VOLUME IS TOO SMALL; PLEASE RUN STANDARD STARS VOAs (w/MEK) + Semi-VOA on TB4 then STARS VOAs (w/MEK) + Semi-VOA OF A TCLP EXTRACT ON TB19. TAN Tom 9/16/95

Total Containers: _____

SAMPLER'S NAME: Scott Schulman SIGNATURE: _____

SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:	
NAME: SIGNATURE:	DATE: 9/15/95 TIME: 11:30	NAME: SIGNATURE:	DATE: TIME:
NAME: SIGNATURE:	DATE: TIME:	NAME: SIGNATURE:	DATE: TIME:
NAME: SIGNATURE:	DATE: TIME:	Received For Laboratory By: (Signature)	DATE: 9/15/95 TIME: 11:30

Custody Seal Intact? Sample [ ] Yes [ ] No [X] N.A.
Shipment Complete? [X] Yes [ ] No

Temp 24 °C TS TB (TM) Custody # 1

Airbill # Walk in

Galson Laboratories

GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95 - 14-SEP-95

Matrix : Soil
Method : SW846 8021
Units : UG/KG

Galson ID:	L25705-1	L25705-2	L25705-3
Client ID:	TB 16(9-10)	TB 10(11-11.9)	TB 17(11.5-12)
Benzene	<0.6	<0.6	<2.8
2-Butanone	<6	<5.8	<28
n-Butylbenzene	<0.6	<0.6	<2.8
sec-Butylbenzene	<0.6	<0.6	<2.8
tert-Butylbenzene	<0.6	<0.6	<2.8
Ethylbenzene	<0.6	<0.6	58
Isopropylbenzene	<0.6	<0.6	<2.8
p-Isopropyltoluene	<0.6	<0.6	<2.8
Naphthalene	<0.6	<0.6	<2.8
n-Propylbenzene	<0.6	<0.6	<2.8
Toluene	1.7	0.9	<2.8
1,2,4-Trimethylbenzene	<0.6	<0.6	<2.8
1,3,5-Trimethylbenzene	<0.6	<0.6	<2.8
m,p-Xylene	1.2	<0.6	15
o-Xylene	<0.6	<0.6	<2.8
Percent Moisture (%)	16	14	12
Dilution Factor	1	1	5
Analysis Date	09/23/95	09/23/95	09/26/95
Method Blank	QC80922A95-1	QC80922A95-1	QC8092595-1

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :JT
Date :04-OCT-95
QC by :
Date : 10/5/95

Footnotes:

Galson Laboratories

GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95 - 14-SEP-95

Matrix : Soil
Method : SW846 8021
Units : UG/KG

Galson ID:	L25705-4	L25705-5	L25705-6
Client ID:	TB 18(10-10.8)	TB 12(10-11.3)	TB 4(10.5-11)
Benzene	<0.6	1.2	<5.1
2-Butanone	<5.6	<5.6	<51
n-Butylbenzene	<0.6	<0.6	<5.1
sec-Butylbenzene	<0.6	<0.6	<5.1
tert-Butylbenzene	<0.6	<0.6	<5.1
Ethylbenzene	<0.6	<0.6	64
Isopropylbenzene	<0.6	<0.6	<5.1
p-Isopropyltoluene	<0.6	<0.6	<5.1
Naphthalene	<0.6	<0.6	<5.1
n-Propylbenzene	<0.6	<0.6	11
Toluene	1.6	1.9	7.1
1,2,4-Trimethylbenzene	<0.6	<0.6	12
1,3,5-Trimethylbenzene	<0.6	<0.6	6.8
m,p-Xylene	1.1	0.8	48
o-Xylene	<0.6	<0.6	7.5
Percent Moisture (%)	10	11	51
Dilution Factor	1	1	5
Analysis Date	09/23/95	09/23/95	09/26/95
Method Blank	QC80922A95-1	QC80922A95-1	QC8092595-1

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :JT
Date :04-OCT-95
QC by :
Date : 10/5/95

Footnotes:

Galson Laboratories

GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95 - 14-SEP-95

Matrix : Soil
Method : SW846 8021
Units : UG/KG

Galson ID:	QC8092595-1	QC80922A95-1
Client ID:	METHOD BLANK	METHOD BLANK
Benzene	<0.5	<0.5
2-Butanone	<5	<5
n-Butylbenzene	<0.5	<0.5
sec-Butylbenzene	<0.5	<0.5
tert-Butylbenzene	<0.5	<0.5
Ethylbenzene	<0.5	<0.5
Isopropylbenzene	<0.5	<0.5
p-Isopropyltoluene	<0.5	<0.5
Naphthalene	<0.5	<0.5
n-Propylbenzene	<0.5	<0.5
Toluene	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5
m,p-Xylene	<0.5	<0.5
o-Xylene	<0.5	<0.5
Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	09/25/95	09/22/95
Method Blank	QC8092595-1	QC80922A95-1

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :JT
Date :04-OCT-95
QC by : [signature]
Date : 10/5/95

Footnotes:

2B
SOIL GC VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.: L25705

Level:(low/med) LOW

SAMPLE NO.	SMC1 (FBZ)#	SMC2 ( )#	SMC3 ( )#	OTHER	TOT OUT
Method Blank-QC80922A95-	101			PID	0
TB 16(9-10)	103			PID	0
TB 10(11-11.9)	92			PID	0
TB 18(10-10.8)	105			PID	0
TB 12(10-11.3)	107			PID	0
Method Blank-QC8092595-1	102			PID	0
TB 17(11.5-12)	82			PID	0
TB 4(10.5-11)	94			PID	0

QC LIMITS
(72-126)

SMC1 (FBZ) = Fluorobenzene

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

SOIL MOISTURE ANALYSIS

LOGIN: L25705 QC BATCH: [redacted] LAB GROUP: INORGANIC REF. #: 989

Wet Weight by: PE
Date : 21-SEP-95
Time : 14:40

Dry Weight by: PH
Date : 22-SEP-95
Time : 9:40

CALSON ID	SAMPLE DESC	DCT	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	% SOLID
25705-1		N	1.00	5.14	5.34	4.34	15.6	84.4
L25705-2	TB 10(11-11.	N	0.99	5.80	5.96	4.97	14.3	85.7
L25705-3		N	0.99	5.35	5.71	4.72	11.8	88.2
25705-4		N	0.98	6.43	6.77	5.79	10.0	90.0
25705-5		N	1.00	5.72	6.08	5.08	11.2	88.8
L25705-6	TB 4(10.5-11	N	0.98	5.01	3.46	2.48	50.5	49.5

$$\text{Percent Moisture} = \frac{(\text{net wet weight}) - (\text{net dry weight})}{\text{net wet weight}} \times 100$$

1/04/95 22:35

Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95
Date Extracted: 20-SEP-95

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L25705-2	L25705-6	Q-2918
Client ID:	TB 10(11-11.9)	TB 4(10.5-11)	METHOD BLANK
Naphthalene	<390	<680	<330
Acenaphthene	<390	<680	<330
Fluorene	<390	<680	<330
Phenanthrene	<390	<680	<330
Anthracene	<390	<680	<330
Fluoranthene	<390	<680	<330
Pyrene	<390	<680	<330
Benzo(a)anthracene	<390	<680	<330
Chrysene	<390	<680	<330
Benzo(b)fluoranthene	<390	<680	<330
Benzo(k)fluoranthene	<390	<680	<330
Benzo(a)pyrene	<390	<680	<330
Indeno(1,2,3-cd)pyrene	<390	<680	<330
Dibenzo(a,h)anthracene	<390	<680	<330
Benzo(g,h,i)perylene	<390	<680	<330
Percent Moisture (%)	14	51	NA
Dilution Factor	1	1	1
Analysis Date	09/26/95	09/26/95	09/26/95

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by : PK
Date : 29-SEP-95
QC by : [illegible]
Date : 10/5/95

Footnotes:

Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95
Date Extracted: 20-SEP-95

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	Q-2918GPC
Client ID:	GPC BLANK
Naphthalene	<330
Acenaphthene	<330
Fluorene	<330
Phenanthrene	<330
Anthracene	<330
Fluoranthene	<330
Pyrene	<330
Benzo(a)anthracene	<330
Chrysene	<330
Benzo(b)fluoranthene	<330
Benzo(k)fluoranthene	<330
Benzo(a)pyrene	<330
Indeno(1,2,3-cd)pyrene	<330
Dibenzo(a,h)anthracene	<330
Benzo(g,h,i)perylene	<330
Percent Moisture (%)	NA
Dilution Factor	1
Analysis Date	09/26/95

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by : PK
Date : 29-SEP-95
QC by : [illegible]
Date : 10/5/95

Footnotes:

SOIL SEMIVOLATILE SURROGATE RECOVERY

Client : Gleason Works

Login # : L25705

Level:(low/med) LOW

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 ( ) #	S6 ( ) #	S7 ( ) #	S8 ( ) #	TOT OUT
Method Blank-Q-	75	73	87	74					0
TB 10(11-11.9)	73	74	83	73					0
TB 4(10.5-11)	73	76	84	75					0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl-d14	(18-137)
S4 (DCB) = 1,2-Dichlorobenzene-d4	(20-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95
Date Extracted: 20-SEP-95

Matrix : Leachate
Method : SW846/1311/8270-TCLP
Units : UG/L

Galson ID:	L25705-6	Q-2933	Q-2933TP
Client ID:	TB 4(10.5-11)	Method Blank	TCLP Blank
Naphthalene	<7	<6	<7
Acenaphthene	<10	<8	<9
Fluorene	<10	<8	<9
Phenanthrene	<12	<10	<11
Anthracene	<10	<8	<9
Fluoranthene	<11	<9	<10
Pyrene	<10	<8	<9
Benzo(a)anthracene	<12	<10	<11
Chrysene	<12	<10	<11
Benzo(b)fluoranthene	<12	<10	<11
Benzo(k)fluoranthene	<12	<10	<11
Benzo(a)pyrene	<12	<10	<11
Indeno(1,2,3-cd)pyrene	<12	<10	<11
Dibenzo(a,h)anthracene	<12	<10	<11
Benzo(g,h,i)perylene	<12	<10	<11
Dilution Factor	1	1	1
Analysis Date	09/26/95	09/26/95	09/26/95

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :PK (DK)
Date :29-SEP-95
QC by : JMCK
Date : 10/5/95

Footnotes:

LEACHATE SEMIVOLATILE SURROGATE RECOVERY

Client : Gleason Works

Login # : L25705

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 ( ) #	S6 ( ) #	S7 ( ) #	S8 ( ) #	TOT OUT
Method Blank-Q-	78	74	86	68					0
TCLP Blank	71 *	69	78	63					1
TB 4(10.5-11)	76	72	48	64					0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(74-122)
S2 (FBP) = 2-Fluorobiphenyl	(56-113)
S3 (TPH) = Terphenyl-d14	(46-132)
S4 (DCB) = 1,2-Dichlorobenzene-d4	(54- 94)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Galson Laboratories

GC VOLATILE ANALYTICAL REPORT

Client : Gleason Works
Account # : 12032
Site : Tanks 1/2

Date Received : 15-SEP-95
Date Sampled : 13-SEP-95

Matrix : Leachate
Method : SW846 8021
Units : UG/L

Galson ID:	L25705-6		QC8092795-1	QC8092795-1TP
Client ID:	TB 4(10.5-11)		Method Blank	TCLP Blank
Benzene	<0.5		<0.5	<0.5
2-Butanone	<5		<5	<5
n-Butylbenzene	<0.5		<0.5	<0.5
sec-Butylbenzene	<0.5		<0.5	<0.5
tert-Butylbenzene	<0.5		<0.5	<0.5
Ethylbenzene	4.2		<0.5	<0.5
Isopropylbenzene	<0.5		<0.5	<0.5
p-Isopropyltoluene	<0.5		<0.5	<0.5
Naphthalene	0.7	T	<0.5	0.8
n-Propylbenzene	0.6		<0.5	<0.5
Toluene	0.9	T	<0.5	0.9
1,2,4-Trimethylbenzene	0.8		<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5		<0.5	<0.5
m,p-Xylene	3.8	T	<0.5	0.6
o-Xylene	<0.5		<0.5	<0.5
Dilution Factor	1		1	1
Analysis Date	09/27/95		09/27/95	09/27/95
Method Blank	QC8092795-1		QC8092795-1	QC8092795-1

ug - microgram
mg - milligram
kg - kilogram
> - Greater than

NR - Not Requested
NS - Not Specified
L - Liter
< - Less than

Approved by :JT
Date :04-OCT-95
QC by : [signature]
Date : 12/5/95

Footnotes:
T : Compound was also detected in TCLP blank.

LEACHATE GC VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.: L25705

SAMPLE NO.	SMC1 (FBZ)#	SMC2 ( )#	SMC3 ( )#	OTHER	TOT OUT
Method Blank-QC8092795-1	100			PID	0
TCLP Blank	99			PID	0
TB 4(10.5-11)	87			PID	0

QC LIMITS
(72-126)

SMC1 (FBZ) = Fluorobenzene

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Attachment E