✓ final - 7/6/93 AQB
(initial review - SLF - 3/27/92)
second - 9/21/92)

Report No.: Y028-SIP
Rev. No.: 0
Work Assignment No.: 019-2JZZ
Contract No.: 68-WP-0051
March 11, 1992
Updated: October 9, 1992

Sandy Foose
U.S. Environmental Protection Agency
Region 2
Edison, New Jersey 08837

Re: Alsy Manufacturing Site Inspection Prioritization Evaluation.
Volume 1 of 2

Dear Ms. Foose:

The following is a summary of the Site Inspection Prioritization evaluation of the Alsy Manufacturing Site, CERCLIS ID No. NYD981184237, located at 270 Duffy Avenue, in Hicksville, Nassau County, New York.

General Description and Site History

Alsy Manufacturing is an inactive site that formerly produced lamps and lamp shades. The company began operations in 1975, recieving a State Pollution Discharge Elimination System (SPDES) permit for discharge of wastewater into leaching cesspools behind the building (Ref. No. 11, pp. 7, R-89, R-109). Processes including metal plating, finishing, and painting generated a variety of wastes, mainly solvents and heavy metals. Contaminated soil exists surrounding the leaching pools due to occasional overflow of the leaching cesspools onto the ground surface (Ref. No. 11, R-112). In 1984, New York State Department of Environmental Conservation (NYSDEC) inspectors observed stained soil and pavement on the site (Ref. No. 11, pp 5, 7, R-105, R-115, R-126). Alsy Manufacturing was under investigation by the NYSDEC for violation of its SPDES permit, which was for one sanitary cesspool and three industrial cesspools authorized to receive various metals. Alsy violated this permit by using unauthorized point sources, use of the sanitary system for discharge of industrial pollutants, discharges above allowable permit limits, violation of effluent standards, and discharge of unauthorized pollutants, particularly solvents (Ref. No. 11, pp. 7, R-78, R-79, R-105, R-109, R-181). The quantity of the wastewater discharged to the leaching pools is unknown. Alsy Manufacturing was issued a Summary Abatement Order on April 9, 1985 by the NYSDEC Stony Brook Office. The company was ordered to remove all liquid and sludge wastes from all manholes, catchbasins, and leaching cesspools, and to disconnect and remove all piping leading to them (Ref. No. 11, pp. 16, R-71). The case was assigned to the State Attorney General for criminal prosecution on September 20, 1985. The criminal case was dismissed with prejudice in April 1987. Alsy was assessed a civil penalty which they agreed to pay, and no subsequent violations have been reported. In the Fall of 1991 (exact date unknown) the facility moved its operations to Pennsylvania (Ref. No. 12). Prior to moving, the plant cleaned out the leaching pools (Ref. No. 11, pp. 5-6, R-295-302). The site is located in a residential area, with the majority of the population receiving water from municipal wells maintained by the Hicksville Water Department (Ref. Nos. 1-4, 6). Sampling was conducted at the site by U.S. EPA Region 2 FIT in June 1987, at which time two groundwater, one surface water, four composite soil, and two sediment samples were collected (Ref. No. 11, pp. 14-28). These samples were analyzed for the Target Compound List (TCL) analytes, through the U.S. EPA Contract Laboratory Program (CLP) (Ref. No. 11, pp. R-315-R-392). Analytical results of these samples indicate elevated levels of volatile organic compounds, pesticides, and metals in the soils and sediment of the leaching pools on site (Ref. No. 11, pp. R-315-R-317, R-369).

286078

Evaluation of Existing Information

Existing information and analytical data, primarily from the 1987 Site Inspection Report and supporting documentation file, were used to do an initial evaluation of the site. This evaluation indicated the groundwater pathway as the main pathway of concern. Site Inspection analytical results from samples collected from the two on-site groundwater monitoring wells indicated the presence of 1,1,1-trichloroethane at concentrations of 60 and 140 micrograms per liter (ug/L), respectively (Ref. No. 11, p. R-315). The metals arsenic, lead, chromium, copper and cadmium were also detected at concentrations of 185 ug/L, 144 ug/L, 152 ug/L, 200 ug/L, and 135 ug/L (estimated), respectively (Ref. No. 11 p. R-369). However, an upgradient well does not exist at the site; therefore, a release cannot be concluded at this time. The analytical results suggest a release from the site to groundwater since 1,1,1-trichloroethane was detected in SPDES outfall samples collected by NYSDEC and is also known to be used on site (Ref. No. 11, pp. R-112, R-144, R-149, R-186, R-220, R-223, R-227). Analytical results of surface soils and sediment samples from the leaching pools indicated the presence of tetrachloroethene, ethylbenzene, xylenes, dimethyl phthalate, di-n-butylphthalate, butylbenzylphthalate, bis (2-ethylhexyl) phthalate, and elevated concentrations of the metals arsenic, cadmium, chromium, copper, and lead (Ref. No. 11, p. R-369). The Site Inspection report indicates that there are residences within 200 feet of the site property (Ref. No. 11). 6, 13).

Hazard Assessment

Updated and additional information and data collected to further evaluate the site to determine if further CERCLA remedial action is required included groundwater population data, public water supply well data, sensitive environment information, and 4-mile radius populations.

Groundwater Pathway - Analytical results of groundwater samples indicate the presence of 1,1,1,-trichloroethane in the on site monitoring wells; however, an observed release of contaminants cannot be concluded based on the lack of upgradient groundwater analytical results (Ref. No. 11, pp. 5, R-315). The metals arsenic, lead, cadmium, chromium, and copper were also detected above background levels (Ref. No. 11, p. R-369). The concentrations of arsenic, lead, chromium and cadmium are all above maximum contaminant levels (MCLs) for drinking water (Ref. No. 10). The site overlies three aquifers: in order of increasing depth they are the Upper glacial aquifer located 50 to 100 feet below the surface with a maximum thickness of 600 feet, the Magothy Formation, located 100 to 700 feet below the surface with a maximum thickness of 1,100 feet, and the Lloyd aquifer, located beneath the Magothy Formation (Ref. No. 11, pp. R-39-42). The aquifer of concern is the Magothy Formation. The Upper glacial aquifer and the Magothy Formation are hydraulically connected (Ref. No. 11 pp. 11, R-39). The lowest point of waste disposal are the bottoms of the unlined leaching cesspools which are 20 feet below ground surface (Ref. No. 11, pp. R-10, R-109). Groundwater is at a miminum depth of 50 feet below the surface; therefore, the distance between groundwater and wastes is approximately 30 feet. The site is within a designated wellhead protection area (Ref. No. 5). The nearest well used for drinking water is approximately 0.5 mile north of the site (Ref. Nos. 2, 3, 4). Groundwater is used as a main drinking water source, and the population within 4 miles of the site relies exclusively on water from municipal wells (Ref. Nos. 2, 6). There are eight municipal districts, which include the Village of Old Westbury, Westbury, Plainview, Bethpage, Hicksville, Town of Hempstead, Jericho, and Levitown, suppling potable water within 4 miles of the site (Ref. Nos. 2, 3, 4, 6, 13). The total population receiving groundwater within 4 miles of the site is approximately 150,840. (0-¼ mile, 0; ¼-½ mile, 0; ½-1 mile, 11,700; 1-2 mile, 45,450; 2-3 mile, 49,230; 3-4 mile, 44,460) (Ref. Nos. 2, 3, 4, 6, 13).

Surface Water Pathway - There is no migratory route from the site to a surface water body (Ref. No. 4). The site is located in a densely populated residential area that is outside of a 500-year flood zone. The nearest surface water is Massapequa Creek which is approximately 3 miles south of the site (Ref. No. 4). Any surface runoff will be intercepted by the surrounding streets and stormwater sewer system (Ref. No. 4).

Soil Exposure Pathway - Analytical results of soil samples indicate the presence of cyanide, dimethyl phthalate, di-n-butyl phthalate, butylbenzl phthalate, bis (2-ethylhexyl) phthalate, polychlorinated biphenyls (PCBs), DDD, DDE, and DDT in surficial soil at the site (Ref. No. 7, pp. 5, R-317, R-318). The metals antimony, arsenic, cadmium, chromium, copper, and lead were also present in elevated concentrations (Ref. No. 11, p. R-369). There are residences suspected of being within 200 feet of soil contamination (Ref. No. 11). Alsy Manufacturing is no longer operating at the Duffy Ave. location; therefore, there are no workers on site (Ref. No. 12). During the 1987 Site Inspection conducted by USEPA Region 2 FIT, openings in the fence that surrounds the property were observed. There is no terrestrial sensitive environment located on an area of documented soil contamination (Ref. No. 4, 11).

Air Pathway - There are no analytical data available to determine if a release of contaminants to air has occured. Direct observation at the time of the 1987 site inspection does not indicate a release to air (Ref. No. 11). A potential for a release to air via contaminated soil particulates exists, given the concentrations of contaminants detected in the on-site soils. There are approximately 225,857 people living within a 4-mile radius of the site (0-¼ mile, 1,400; ¼-½ mile, 2,118; ½-1 mile, 13,179; 1-2 mile, 56,895; 2-3 mile, 68,931; 3-4 mile, 83,334) (Ref. No. 7). There are no sensitive environments within 0.5 mile of the site (Ref. No. 4, 11).

Summary and Recommendation

Alsy Manufacturing is recommended for an **EXPANDED SITE INSPECTION**. The existing information, data, and additional information collected were insufficient to fully evaluate the site to determine if further CERCLA remedial action is required. The analytical results indicate the presence of contaminants in the groundwater and in the soil and sediment on site. Contaminants present in the groundwater can be attributable to the operations conducted at the site; however, a release to groundwater cannot be concluded due to the absence of upgradient groundwater data. Groundwater is the main source for drinking water within 4 miles of the site. The nearest drinking water well location is approximately 0.5 mile north of the site. The total population served by groundwater within 4 miles is 150,840 people. The site is located over a wellhead protection area.

Very truly yours,

Susan Holdkiss for
Anthony J. Bonasera
SITE MANAGER

Anthony F Culmone Jr. for
David J. Grupp
PROJECT MANAGER

Charles L Bom for RN
Ronald M. Naman
SUBCONTRACT OFFICE MANAGER

D. Stainken
Dennis Stainken, Ph. D.
WORK ASSIGNMENT MANAGER

ATTACHMENT 1

REFERENCES

1. Telecon Note: Conversation between Richard Woodwell, Hicksville Water Department and Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Population served by groundwater, March 4, 1992.

2. Letter to Richard Woodwell, Hicksville Water Department from Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Municipal well information; facsimile transmittal attached. February 3, 1992.

3. Project Note: To Alsy Manufacturing file, NOMAD No. Y028, from Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Public supply well listings, March 5, 1992.

4. Four-Mile Vicinity Map for Alsy Manufacturing based on U.S. Department of the Interior, Geological Survey Topographic Maps, 7.5 minute series, Quadrangles for "Hicksville, N.Y." 1967, photorevised 1979, "Freeport, N.Y." 1967, photorevised 1979, "Amityville, N.Y." 1967, photorevised 1979, "Huntington, N.Y." 1967, photorevised 1979.

5. Telecon Note: Conversation between Rob Shnick, New York State Department of Environmental Conservation (NYSDEC) Region 1, Division of Water, and Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Wellhead protection areas, March 4, 1992.

6. Project Note: To Alsy Manufacturing file, NOMAD No. Y028, from Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Well distribution and population receiving groundwater, February 24, 1992.

7. General Sciences Corporation, Graphical Exposure Modeling System (GEMS), Landover Maryland. December 1, 1986.

8. Telecon Note: Conversation between Jericho Water Department and Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Population served by groundwater, March 4, 1992.

9. Project Note: To Alsy Manufacturing file, NOMAD No. Y028, from Anthony Bonasera, HALLIBURTON NUS Environmental Corporation, Subject: Population served by Bethpage Water Department, March 9, 1992.

10. Code of Federal Regulations, Title 40, Chapter 1, Environmental Protection Agency, Part 141, National Primary Drinking Water Regulations, Subpart B - Maximum Contaminant Levels, revised as of July 1, 1986.

11. U.S. Environmental Protection Agency, Final Draft Site Inspection Report for Alsy Manufacturing, Hicksville, N.Y., prepared by NUS Corporation, Edison, New Jersey, April 4, 1988.

REFERENCES (CONTD)

12. Telecon Note: Conversation between Charles Klass, Alsy Manufacturing Corp., and Lisa Szegedi, Malcolm Pirnie, Inc., September 10, 1992.

13. Project Note: To Alsy Manufacturing Corp. file, from Lisa Szegedi, Malcolm Pirnie, Inc., Subject: Drinking Water Sources, August 14, 1992.

REFERENCE NO. 1

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
Y028-SIP	3/4/92	10:20 a.m.

DISTRIBUTION:

BETWEEN:	OF:	PHONE:
Richard Woodwell	Hicksville Water Department	(516) 931-0184

AND: Anthony Bonasera (NUS)

DISCUSSION:

Richard Woodwell told me that Hicksville Water District supplies 47,810 people.

ACTION ITEMS:

REFERENCE NO. 2

HALLIBURTON NUS
Environmental Corporation

Environmental Technologies Group
120 WOOD AVENUE SOUTH
SUITE 610
ISELIN, NEW JERSEY 08830
(908) 603-7878

C-541-02-92-04

541-03-

February 3, 1992

Mr. Richard Woodwell
Hicksville Water Department
4 Dean Street
Hicksville, NY 11801

Dear Mr. Woodwell:

As per our telephone conversation, I am requesting information concerning the municipal wells in the Huntington Water District. The information is requested on behalf of the U.S. Environmental Protection Agency and will be used to help determine whether further Superfund involvement at a site in the vicinity of these wells is warranted.

If possible, would you please provide answers to the following questions:

1. What are the locations of all municipal wells, i.e., either latitude and longitude, or street addresses?

2. What are the number of service connections to each individual well?

3. What is the pumpage and production capacity of all wells?

4. Are the wells part of a blended system?

5. In the Hicksville area, are there many domestic wells in use? If so, approximately how many?

I would appreciate any information you could provide.

Our fax number is (908) 603-9033. Thank you.

Very truly yours,

Anthony Bonasera

Anthony Bonasera

Reviewed and Approved RM Norman

AB/iv
L029204

HICKSVILLE WATER DISTRICT

4 DEAN STREET
HICKSVILLE, N. Y. 11802

FAX NO.
(516)931-6506

PHONE
(516) 931-0184

FAX TRANSMITTAL SHEET

DATE 2-10-92

TIME 10:45 A.M.

NUMBER OF PAGES(incl. cover sheet) 2

TO ANTHONY BONASERA

COMPANY HALLIBURTON NUS

FAX NUMBER 908-603-9033

FROM Hicksville Water District

RE: MUNICIPAL Wells

comments

1. PLT. 1 - BethPage Rd. - 3 Wells
   PLT. 2 - Newbridge Rd. - 1 Well
   PLT. 3 - Jerusalem Ave. - 1 Well
   PLT. 4 - Newbridge Rd. - 1 Well
   PLT. 5 - Stewart Ave. - 2 Wells
   PLT. 6 - Kuhl Ave. - 2 Wells
   PLT. 7 - Miller Rd. - 2 Wells
   PLT. 8 - Dean St. - 3 Wells
   PLT. 9 - Alicia St. - 3 Wells
   PLT. 10 - W. Barclay St. - 1 Well
   PLT. 11 - Plainview Rd. - 1 Well
2. All Wells Supply the Whole System
3. 30.758 E.P.D.
4. No
5. No Domestic Wells in WSA.

REFERENCE NO. 3

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Aksy Manufacturing **DATE:** March 5, 1992

FROM: Anthony Bonasera **COPIES:**

SUBJECT: Public Supply well listings (attachment)

REFERENCE:

Attached are the public supply well listings for Hicksville, Jericho and Bethpage water Districts with attached maps showing locations. This information is from the Nassau County Department of Health.

BETHPAGE WATER DISTRICT (07) WE1-0053 TOB

25 Adams Avenue
Bethpage, NY 11714

Official: Sal Greco, Jr. Chairman
Bd. of Commissioners

Consult: H2M

Superintendent: Ron Krumholz

Lab: H2M

Population: 37,650 (1981)

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda(#BDG-1)

WELLS(9)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Broadway	Bethpage	5-1	8004	740	M	1400
N/S Park La	Bethpage	6-1	3876	386	M	1400
	Bethpage	6-2	8941	770	M	1400
E/S Adams Avenue	Bethpage	7A	8757	640	M	1400
	Bethpage	8A	9768	679	M	1400
	Bethpage	9	6678	375	M	1400
Sophia St	Bethpage	10	6915	608	M	1400
	Bethpage	11	6916	611	M	1400
Broadway	Bethpage	BDG-1	4591	651	M	1380

STORAGE TANKS(2)

Address	Village	Capacity (MG)	Type
Adams Avenue	Bethpage	1.25	Elevated
Sophia Street	Bethpage	1.50	Ground

4 Dean Street
Hicksville, NY 11802

Official: Nicholas Brigandi, Chairman Board of Commissioners Consult: H2M

Superintendent: Richard Woodwell Lab: H2M

Population: 57,000 (1981)

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda, OR(Packed Tower Aeration)(#1-5)

WELLS(19)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Bethpage Rd	Hicksville	1-4	7562	545	M	1400
	Hicksville	1-5	8249	490	M	1400
	Hicksville	1-6	9486	575	M	1380
W/S Newbridge Rd	Hicksville	2-2	5316	523	M	1200
Jerusalem Ave	Hicksville	3-2	8525	503	M	1400
W.S Newbridge Rd	Hicksville	4-2	8526	601	M	1400
N/S Stewart Ave	Hicksville	5-2	7561	550	M	1400
	Hicksville	5-3	9212	604	M	1400
W/S Kuhl Ave	Hicksville	6-1	3753	419	M	1200
	Hicksville	6-2	3878	428	M	1200
E/S Miller Pl	Hicksville	7-1	6190	600	M	1200
	Hicksville	7-2	6191	550	M	1200
Dean St	Hicksville	8-1	6192	626	M	1400
	Hicksville	8-2	6193	467	M	1400
	Hicksville	8-3	9180	630	M	1400
Alicia St	Hicksville	9-1	8778	590	M	1400
	Hicksville	9-2	8779	585	M	1400
	Hicksville	9-3	10208		M	
Barclay St	Hicksville	10-1	9463	638	M	1380

[illegible] (Continued)

STORAGE TANKS

Address	Village	Capacity (MG)	Type
Smithpond Rd	Hicksville	1.15	Elevated
Dean St	Hicksville	1.5	Ground
Stewart Ave	Hicksville	2.0	Ground
Newbridge Rd and Barter La	Hicksville	0.5	Elevated
Newbridge Rd	Hicksville	2.0	Ground

JERICHO WATER DISTRICT [illegible] [illegible] TCI

125 Convent Road
Syosset,NY 11791

Official: Edward F. Bracken,Jr. Consult: Sidney Bowne and Son
Chairman,Bd. of Commissioners

Superintendent: Len Martling Lab: Nytest

Population: 64,500 (1981)

Treatment: Chlorination(E),Caustic Soda

WELLS(20)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
N/S Convent La	Syosset	3	198	617	M	1150
	Syosset	4	199	600	M	1120
	Syosset	5	570	600	M	1200
N/S Wheatley Rd	Brookville	6	3474	512	M	1200
	Brookville	7	3475	482	M	1200
	Brookvillek	16	7446	493	M	1200
W/S Motts Cove Rd	Roslyn Harbor	11	5201	504	L	1200
W/S Cypress Dr	Woodbury	12	6092	631	M	1200
	Woodbury	13	6093	60[illegible]	M	1200
N/S Tobie La	Jericho	14	6651	610	M	1200
S/E Jericho Tpk	Jericho	9	4245	565	M	1200
Cantiaque Rock	Jericho	15	7030	530	M	1200
Cold Spring Rd	Laurel Hollow	17	7593	468	M	1200.
W/S Split Rock Rd	Syosset	18	7772	563	M	1200
	Syosset	19	7773	560	M	1200
		20	10149		M	

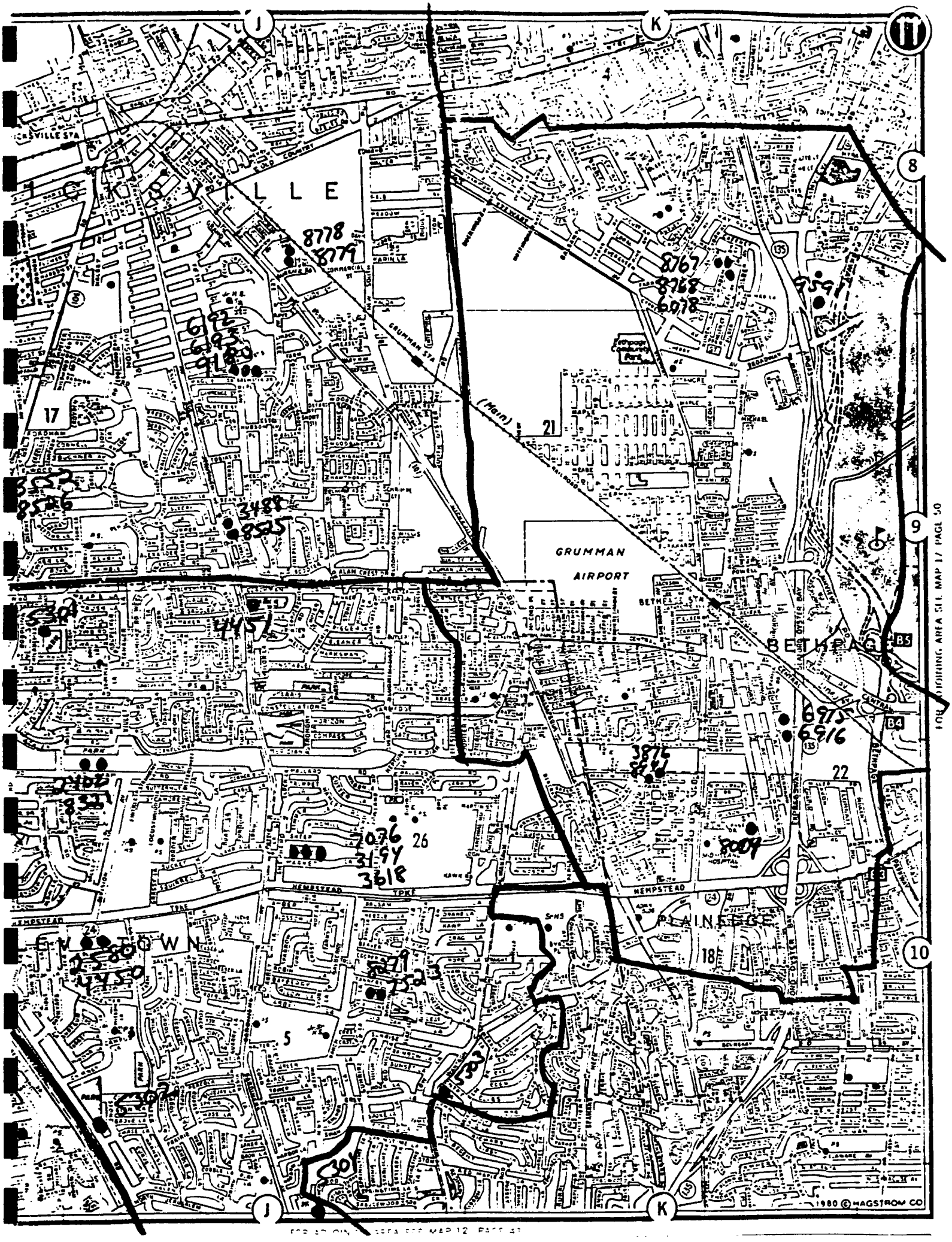
[illegible] WATER DISTRICT (Continued)

WELLS (Continued)

Address	Village	Local Num.	N-Num	Depth (Ft.)	Strata	Capacity (GPM)
East Norwich Rd	Jericho	22	7781	451	M	1200
Woodmere Rd	Woodbury	23	8043	688	M	1200
Kirby Ln	Muttontown	25	8355	590	M	1400
N/E Simonson Rd	O. Brookville	27	8713	372	M	1400

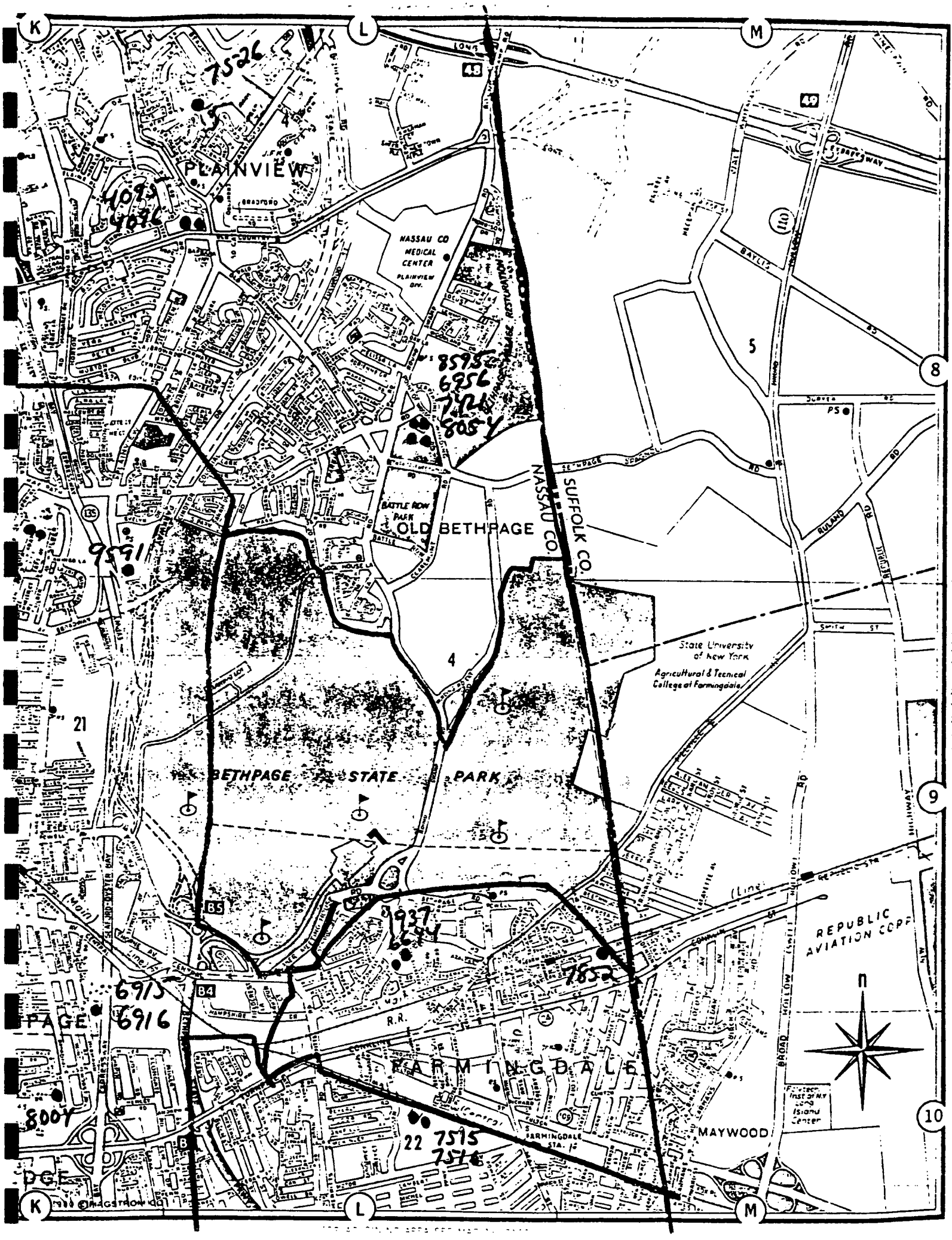
STORAGE TANKS(6)

Address	Village	Capacity (MG)	Type
Kirby La	Muttontown	3.0	Ground
Wheatley Rd	Brookville	1.0	Elevated
Convent La	Syosset	1.5	Elevated
Jericho Tpke	Jericho	1.5	Elevated
Orchard Dr	Woodbury	2.0	Stand Pipe
Split Rock Rd	Syosset	3.4	Stand Pipe



FOR LOOKING AREA SEE MAP 17 PAGE 50

FOR LOOKING AREA SEE MAP 12 PAGE 47



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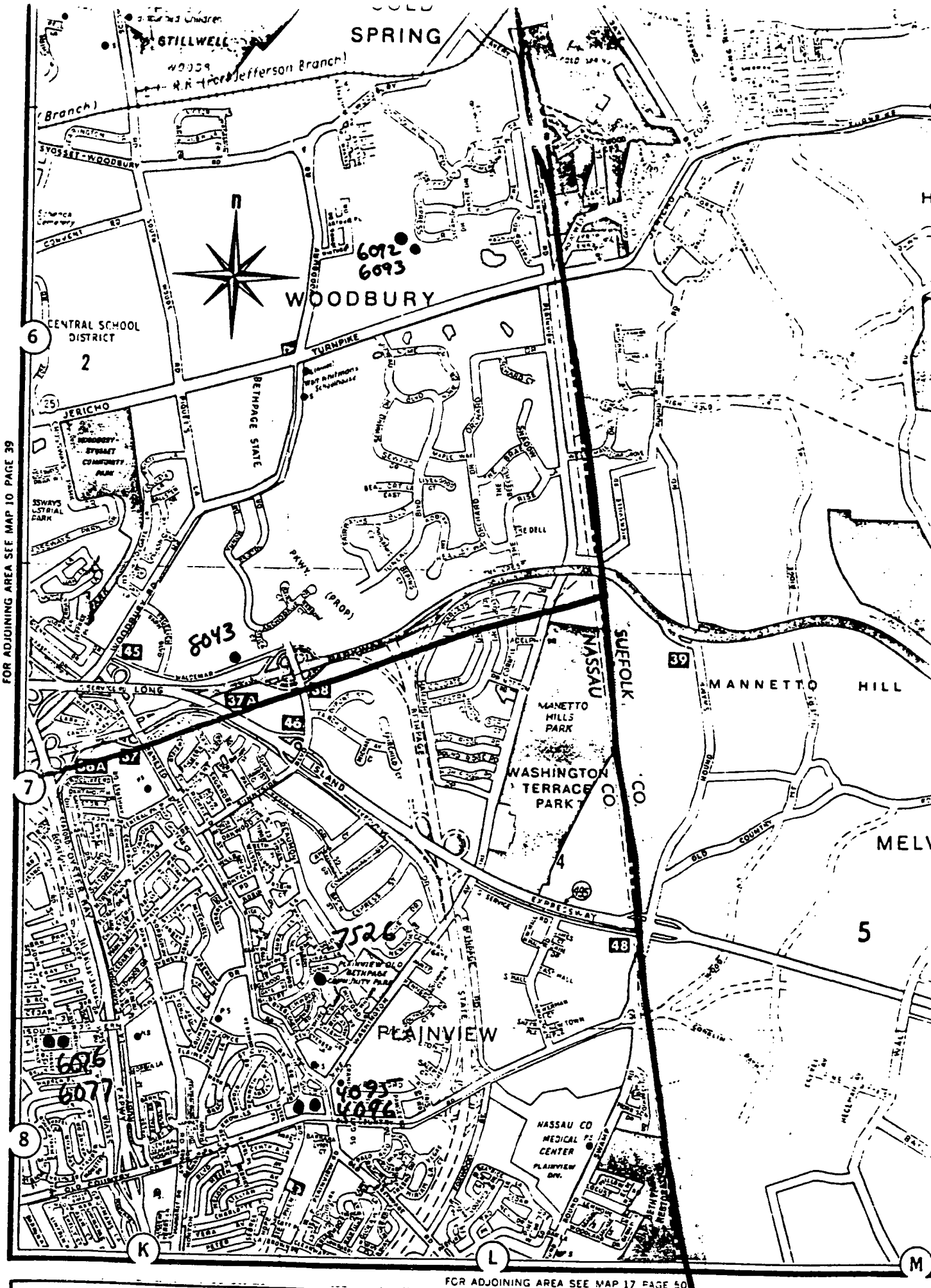
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WASHINGTON TERRACE PARK
PLAINVIEW
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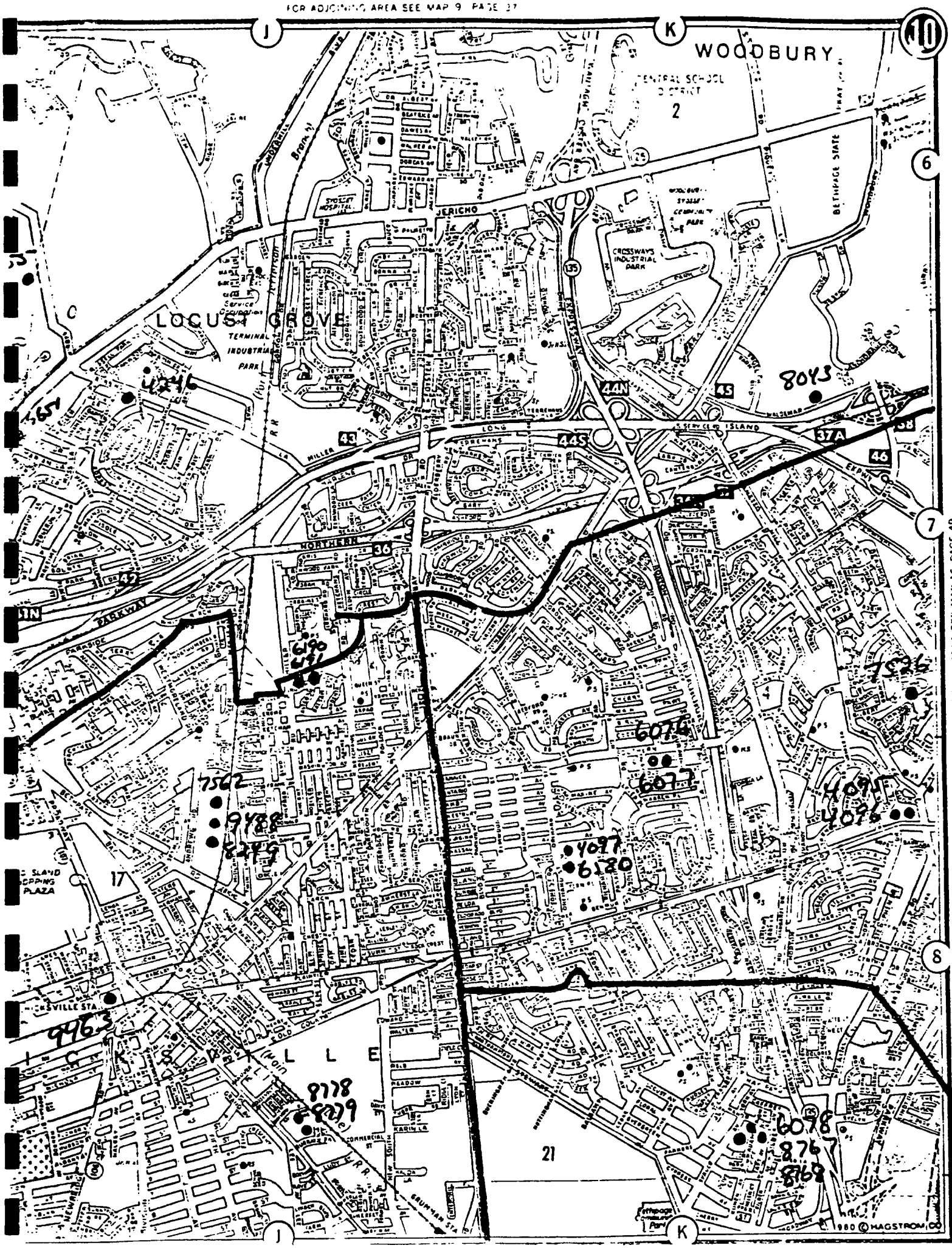
FOR ADJOINING AREA SEE MAP 10 PAGE 39
FOR ADJOINING AREA SEE MAP 17 PAGE 50

FOR ADJOINING AREA SEE MAP 9 PAGE 37



FOR ADJOINING AREA SEE MAP 16 PAGE 49

REFERENCE NO. 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TITLE:	FOUR MILE VICINITY MAP
SITE NAME:	ALSY MANUFACTURING HICKSVILLE, N.Y.
DATE: 01/24/92	SCALE: 1" = 2000'
REPORT NUMBER: Y028-SIP	

REFERENCE NO. 5

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
Y028 - SIP	3/4/92	11:30 a.m.

DISTRIBUTION:

BETWEEN:	OF:	PHONE:
Rob Shnick	DEC Region 1 Division of Water	(516) 751-7900

AND: Anthony Bonasera (NUS)

DISCUSSION:

Rob Shnick told me that Long Island is considered a sole source aquifer and therefore any and all areas within Long Island are considered to lie within a wellhead protection area.

ACTION ITEMS:

REFERENCE NO. 6

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Aksy Manufacturing
DATE: 2/24/92
FROM: Anthony Bonasera
COPIES:
SUBJECT: Well Distribution
REFERENCE:

Three Water Districts provide public supply to residents within a four mile vicinity of Aksy Manufacturing.

1. Hicksville Water District:
   11 well locations : 20 wells (blended)
   Total population receiving water : 47,810

2. Jericho Water District:
   3 well locations : 3 wells (blended)
   Total population receiving water : 62,000

3. Bethpage Water District:
   4 well locations : 8 wells (blended)
   Total population receiving water : 24,520

NUS 443A 58 1182

	NUMBER OF WELLS IN EACH DISTRICT			
DISTANCE	HICKSVILLE	JERICHO	BETHPAGE	TOTAL POP.
0-¼ mile				0
¼-½ mile				0
½-1 mile	3			7,173
1-2 miles	13	1		34,346
2-3 miles		2		6,526
3-4 miles			8	21,792

NOTE: All wells in each of the water districts are blended within their own system. The number of people served by each well was determined by dividing the total population of each district by the total number of wells in that district.

1. Hicksville: 47,810 people/ 20 wells = 2,391 people/well
2. Jericho: 62,000 people/ 19 wells = 3,263 people/well
3. Bethpage: 24,520 people/ 9 wells = 2,724 people/well

REFERENCE NO. 7

GSC-TR8654

GRAPHICAL EXPOSURE MODELING SYSTEM

(GEMS)

USER'S GUIDE

VOLUME 2. MODELING

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
EXPOSURE EVALUATION DIVISION
Task No. 3-2
Contract No. 68023970
Project Officer: Russell Kinerson
Task Manager: Loren Hall

Prepared by:

GENERAL SCIENCES CORPORATION
8401 Corporate Drive
Landover, Maryland 20785

Submitted: December 1, 1986

ALSY MANUFACTURING

LATITUDE 40:45:47 LONGITUDE 73:32:30 1980 POPULATION

KM	0.00- 0.4	0.4- 0.8	0.8- 1.6	1.6- 3.2	3.2- 4.8	4.8- 6.4	SECTOR TOTALS
S 1	1400	2118	13179	56895	68931	83334	225857
RING TOTALS	1400	2118	13179	56895	68931	83334	225857

REFERENCE NO. 8

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
Y028 - SIP	3/4/92	10:40 a.m.

DISTRIBUTION:

BETWEEN:	OF:	PHONE:
	Jericho Water Dept.	(516) 921-8280

AND: Anthony Bonasera (NUS)

DISCUSSION:

Assistant at Jericho Water Department told me that their district supplies 62,000 people.

ACTION ITEMS:

REFERENCE NO. 9

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Aksy Manufacturing

DATE: 3/9/92

FROM: Anthony Bonasera

COPIES:

SUBJECT: Population served by Bethpage Water District

REFERENCE:

Attached is a telecon note giving the service connections to Bethpage Water Department and a telecon note giving a Nassau County average for population per household. I multiplied the number of service connections by the household average to determine population served by groundwater by Bethpage Water Department.

8,340 accounts * 2.94 persons/household

= 24,520 people

NUS 443A 58 1182

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
Y028	3/9/92	1400

DISTRIBUTION:

BETWEEN:	OF:	PHONE:
Ronald Krumholz	Superintendant Bethpage Water Department	(516) 931-0093

AND: Anthony Bonasera (NUS)

DISCUSSION:

Mr Krumholz told me that Bethpage Water District has 8,340 service accounts.

ACTION ITEMS:

NUS CORPORATION AND SUBSIDIARIES **TELECON NOTE**

CONTROL NO.:	DATE:	TIME:
4030	March 2, 1992	0952

DISTRIBUTION:
Cantor Brothers, Inc.

BETWEEN:	OF:	PHONE:
Shirley	U.S. Census Bureau	(301) 763-5002

AND:
Susan Lenczyk (NUS)

DISCUSSION:
Based on the 1990 Census, the average number of persons per household in Nassau County, NY is 2.94, and in Suffolk County, is 3.04.

ACTION ITEMS:

REFERENCE NO. 10

code of federal regulations

Protection of Environment

40

PARTS 100 TO 149

Revised as of July 1, 1986

THE NATIONAL ARCHIVES OF THE UNITED STATES • 1934 •

or specified portions thereof, which waters are located within the boundaries of such State. Such application shall specify with particularly the waters, or portions thereof, for which a complete prohibition is desired. The application shall include identification of water recreational areas, drinking water intakes, aquatic sanctuaries, identifiable fish-spawning and nursery areas, and areas of intensive boating activities. If, on the basis of the State's application and any other information available to him, the Administrator is unable to make a finding that the waters listed in the application require a complete prohibition of any discharge in the waters or portions thereof covered by the application, he shall state the reasons why he cannot make such a finding, and shall deny the application. If the Administrator makes a finding that the waters listed in the application require a complete prohibition of any discharge in all or any part of the waters or portions thereof covered by the State's application, he shall publish notice of such findings together with a notice of proposed rule making, and then shall proceed in accordance with 5 U.S.C. 553. If the Administrator's finding is that applicable water quality standards require a complete prohibition covering a more restricted or more expanded area than that applied for by the State, he shall state the reasons why his finding differs in scope from that requested in the State's application.

(1) For the following waters the discharge from a vessel of any sewage (whether treated or not) is completely prohibited:

Boundary Waters Canoe Area, formerly designated as the Superior, Little Indian Sioux, and Caribou Roadless Areas, in the Superior National Forest, Minnesota, as described in 16 U.S.C. 577-577d1.

[41 FR 4453, Jan. 29, 1976, as amended at 42 FR 43837, Aug. 31, 1977]

§ 140.5 Analytical procedures.

In determining the composition and quality of effluent discharge from marine sanitation devices, the procedures contained in 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants," or subsequent revisions or amendments thereto, shall be employed.

PART 141—NATIONAL PRIMARY DRINKING WATER REGULATIONS

Subpart A—General

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141.2 Definitions.
141.3 Coverage.
141.4 Variances and exemptions.
141.5 Siting requirements.
141.6 Effective dates.

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141.12 Maximum contaminant levels for organic chemicals.
141.13 Maximum contaminant levels for turbidity.
141.14 Maximum microbiological contaminant levels.
141.15 Maximum contaminant levels for radium-226, radium-228, and gross alpha particle radioactivity in community water systems.
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141.24 Organic chemicals other than total trihalomethanes, sampling and analytical requirements.
141.25 Analytical methods for radioactivity.
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141.27 Alternative analytical techniques.
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141.29 Monitoring of consecutive public water systems.
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APPENDIX B—SUMMARY OF MAJOR COMMENTS (FOR RESPONSES, SEE APPENDIX A)

Sec.
APPENDIX C—ANALYSIS OF TRIHALOMETHANES

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141.31 Reporting requirements.
141.32 Public notification.
141.33 Record maintenance.

Subpart E—Special Monitoring Regulations for Organic Chemicals and Otherwise Unregulated Contaminants

141.40 Special monitoring for organic chemicals.
141.41 Special monitoring for sodium.
141.42 Special monitoring for corrosivity characteristics.

Subpart F—Recommended Maximum Contaminant Levels

141.50 Recommended maximum contaminant levels for organic contaminants.
141.51 Recommended maximum contaminant levels for inorganic contaminants.

Subpart G—National Revised Primary Drinking Water Regulations: Maximum Contaminant Levels

141.60 Effective dates.
141.61 [Reserved]
141.62 Maximum Contaminant Levels for Inorganic Contaminants.

AUTHORITY: 42 U.S.C. 300g-1, 300g-3, 300j-4, and 300j-9.

SOURCE: 40 FR 59570, Dec. 24, 1975, unless otherwise noted.

NOTE: For community water systems serving 75,000 or more persons, monitoring must begin 1 year following promulation and the effective date of the MCL is 2 years following promulgation. For community water systems serving 10,000 to 75,000 persons, monitoring must begin within 3 years from the date of promulgation and the effective date of the MCL is 4 years from the date of promulgation. Effective immediately, systems that plan to make significant modifications to their treatment processes for the purpose of complying with the TTHM MCL are required to seek and obtain State approval of their treatment modification plans. This note affects §§ 141.2, 141.6, 141.12, 141.24 and 141.30. For additional information see 44 FR 68641, Nov. 29, 1979.

Subpart A—General

§ 141.1 Applicability.

This part establishes primary drinking water regulations pursuant to section 1412 of the Public Health Service Act, as amended by the Safe Drinking Water Act (Pub. L. 93-523); and related regulations applicable to public water systems.

§ 141.2 Definitions.

As used in this part, the term:

(a) "Act" means the Public Health Service Act, as amended by the Safe Drinking Water Act, Pub. L. 93-523.

(b) "Contaminant" means any physical, chemical, biological, or radiological substance or matter in water.

(c) "Maximum contaminant level" means the maximum permissible level of a contaminant in water which is delivered to the free flowing outlet of the ultimate user of a public water system, except in the case of turbidity where the maximum permissible level is measured at the point of entry to the distribution system. Contaminants added to the water under circumstances controlled by the user, except those resulting from corrosion of piping and plumbing caused by water quality, are excluded from this definition.

(d) "Person" means an individual, corporation, company, association, partnership, State, municipality, or Federal agency.

(e) "Public water system" means a system for the provision to the public of piped water for human consumption, if such system has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least 60 days out of the year. Such term includes (1) any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system, and (2) any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. A public water system is either a "community water system" or a "noncommunity water system."

(i) "Community water system" means a public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

(ii) "Non-community water system" means a public water system that is not a community water system.

(f) "Sanitary survey" means an onsite review of the water source, facilities, equipment, operation and maintenance of a public water system for the purpose of evaluating the adequacy of such source, facilities, equipment, operation and maintenance for producing and distributing safe drinking water.

(g) "Standard sample" means the aliquot of finished drinking water that is examined for the presence of coliform bacteria.

(h) "State" means the agency of the State government which has jurisdiction over public water systems. During any period when a State does not have primary enforcement responsibility pursuant to section 1413 of the Act, the term "State" means the Regional Administrator, U.S. Environmental Protection Agency.

(i) "Supplier of water" means any person who owns or operates a public water system.

(j) "Dose equivalent" means the product of the absorbed dose from ionizing radiation and such factors as account for differences in biological effectiveness due to the type of radiation and its distribution in the body as specified by the International Commission on Radiological Units and Measurements (ICRU).

(k) "Rem" means the unit of dose equivalent from ionizing radiation to the total body or any internal organ or organ system. A "millirem (mrem)" is 1/1000 of a rem.

(l) "Picocurie (pCi)" means the quantity of radioactive material producing 2.22 nuclear transformations per minute.

(m) "Gross alpha particle activity" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample.

(n) "Man-made beta particle and photon emitters" means all radionuclides emitting beta particles and/or photons listed in Maximum Permissible Body Burdens and Maximum Permissible Concentration of Radionuclides in Air or Water for Occupational Exposure, NBS Handbook 69, except the daughter products of thorium-232, uranium-235 and uranium-238.

(o) "Gross boat particle activity" means the total radioactivity due to beta particle emission as inferred from measurements on a dry sample.

(p) "Halogen" means one of the chemical elements chlorine, bromine or iodine.

(q) "Trihalomethane" (THM) means one of the family of organic compounds, named as derivatives of methane, wherein three of the four hydrogen atoms in methane are each substituted by a halogen atom in the molecular structure.

(r) "Total trihalomethanes" (TTHM) means the sum of the concentration in milligrams per liter of the trihalomethane compounds (trichloromethane [chloroform], dibromochloromethane, bromodichloromethane and tribromomethane [bromoform]), rounded to two significant figures.

(s) "Maximum Total Trihalomethane Potential (MTP)" means the maximum concentration of total trihalomethanes produced in a given water containing a disinfectant residual after 7 days at a temperature of 25° C or above.

(t) "Disinfectant" means any oxidant, including but not limited to chlorine, chlorine dioxide, chloramines, and ozone added to water in any part of the treatment or distribution process, that is intended to kill or inactivate pathogenic microorganisms.

(u) "Recommended maximum contaminant level" or "RMCL" means the maximum level of a contaminant in drinking water at which no known or anticipated adverse effect on the health of persons would occur, and which includes an adequate margin of safety. Recommended maximum contaminant levels are nonenforceable health goals.

(v) "Performance evaluation sample" means a reference sample provided to a laboratory for the purpose of demonstrating that the laboratory can successfully analyze the sample within limits of performance specified by the Agency. The true value of the concentration of the reference material is unknown to the laboratory at the time of the analysis.

[40 FR 59570, Dec. 24, 1975, as amended at 41 FR 28403, July 9, 1976; 44 FR 68641, Nov. 29, 1979; 50 FR 46900, Nov. 13, 1985; 51 FR 11410, Apr. 2, 1986]

§ 141.3 Coverage.

This part shall apply to each public water system, unless the public water system meets all of the following conditions:

(a) Consists only of distribution and storage facilities (and does not have any collection and treatment facilities);

(b) Obtains all of its water from, but is not owned or operated by, a public water system to which such regulations apply:

(c) Does not sell water to any person; and

(d) Is not a carrier which conveys passengers in interstate commerce.

§ 141.4 Variances and exemptions.

Variances or exemptions from certain provisions of these regulations may be granted pursuant to sections 1415 and 1416 of the Act by the entity with primary enforcement responsibility. Provisions under Part 142, *National Interim Primary Drinking Water Regulations Implementation*—Subpart E (Variances) and Subpart F (Exemptions)—apply where EPA has primary enforcement responsibility.

§ 141.5 Siting requirements.

Before a person may enter into a financial commitment for or initiate construction of a new public water system or increase the capacity of an existing public water system, he shall notify the State and, to the extent practicable, avoid locating part or all of the new or expanded facility at a site which:

(a) Is subject to a significant risk from earthquakes, floods, fires or other disasters which could cause a breakdown of the public water system or a portion thereof; or

(b) Except for intake structures, is within the floodplain of a 100-year flood or is lower than any recorded high tide where appropriate records exist. The U.S. Environmental Protection Agency will not seek to override land use decisions affecting public water systems siting which are made at the State or local government levels.

§ 141.6 Effective dates.

(a) Except as provided in paragraph (b) of this section, the regulations set forth in this part shall take effect on June 24, 1977.

(b) The regulations for total trihalomethanes set forth in § 141.12(c) shall take effect 2 years after the date of promulgation of these regulations for community water systems serving 75,000 or more individuals, and 4 years after the date of promulgation for communities serving 10,000 to 74,999 individuals.

(c) The regulations set forth in §§ 141.11 (a), (d) and (e); 141.14(a)(1); 141.14(b)(1)(i); 141.14(b)(2)(i); 141.14(d); 141.21 (a), (c) and (i); 141.22 (a) and (e); 141.23 (a)(3) and (a)(4); 141.23(f); 141.24(a)(3); 141.24 (e) and (f); 141.25(e); 141.27(a); 141.28 (a) and (b); 141.31 (a), (d) and (e); 141.32(b)(3); and 141.32(d) shall take effect immediately upon promulgation.

(d) The regulations set forth in § 141.41 shall take effect 18 months from the date of promulgation. Suppliers must complete the first round of sampling and reporting within 12 months following the effective date.

(e) The regulations set forth in § 141.42 shall take effect 18 months from the date of promulgation. All requirements in § 141.42 must be completed within 12 months following the effective date.

(f) The regulations set forth in § 141.11(c) and § 141.23(g) are effective May 2, 1986. Section 141.23(g)(4) is effective October 2, 1987.

[44 FR 68641, Nov. 29, 1979, as amended at 45 FR 57342, Aug. 27, 1980; 47 FR 10998, Mar. 12, 1982; 51 FR 11410, Apr. 2, 1986]

Subpart B—Maximum Contaminant Levels

§ 141.11 Maximum contaminant levels for inorganic chemicals.

(a) The MCL for nitrate is applicable to both community water systems and non-community water systems except as provided by in paragraph (d) of this section. The levels for the other inorganic chemicals apply only to commu-

· local government

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h in § 141.12(c) shall
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ations set forth in
and (e); 141.14(a)(1);
141.14(b)(2)(i);
(a), (c) and (i); 141.22
23 (a)(3) and (a)(4);
a)(3); 141.24 (e) and
.27(a); 141.28 (a) and
) and (e); 141.32(b)(3);
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lgation.
ations set forth in
ke effect 18 months
promulgation. Suppli-
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eporting within 12
the effective date.
lations set forth in
ke effect 18 months
promulgation. All re-
141.42 must be com-
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141.23(g) are effective
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, 1987.

29, 1979, as amended at
27, 1980; 47 FR 10998,
11410, Apr. 2, 1986]

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water systems except
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ls for the other inor-
apply only to commu-

nity water systems. Compliance with MCLs for inorganic chemicals is calculated pursuant to § 141.23.

(b) The following are the maximum contaminant levels for inorganic chemicals other than fluoride:

Contaminant	Level, milligrams per liter
Arsenic	0.05
Barium	1
Cadmium	0.010
Chromium	0.05
Lead	0.05
Mercury	0.002
Nitrate (as N)	10
Selenium	0.01
Silver	0.05

(c) The Maximum Contaminant Level for fluoride is 4.0 mg/l. See 40 CFR 143.3, which establishes a Secondary Maximum Contaminant Level at 2.0 mg/l.

(d) At the discretion of the State, nitrate levels not to exceed 20 mg/l may be allowed in a non-community water system if the supplier of water demonstrates to the satisfaction of the State that:

(1) Such water will not be available to children under 6 months of age; and

(2) There will be continuous posting of the fact that nitrate levels exceed 10 mg/l and the potential health effects of exposure; and

(3) Local and State public health authorities will be notified annually of nitrate levels that exceed 10 mg/l; and

(4) No adverse health effects shall result.

[40 FR 59570, Dec. 24, 1975, as amended at 45 FR 57342, Aug. 27, 1980; 47 FR 10998, Mar. 12, 1982; 51 FR 11410, Apr. 2, 1986]

§ 141.12 Maximum contaminant levels for organic chemicals.

The following are the maximum contaminant levels for organic chemicals. The maximum contaminant levels for organic chemicals in paragraphs (a) and (b) of this section apply to all community water systems. Compliance with the maximum contaminant levels in paragraphs (a) and (b) of this section, is calculated pursuant to § 141.24. The maximum comtaminant level for total trihalomethanes in paragraph (c) of this section applies only to community water systems which serve a population of 10,000 or more individuals and which add a disinfectant (oxidant) to the water in any part of the drinking water treatment process. Compliance with the maximum contaminant level for total trihalomethanes is calculated pursuant to § 141.30.

	Level, milligrams per liter
(a) Chlorinated hydrocarbons:	
Endrin (1,2,3,4,10, 10-hexachloro-6, 7-epoxy-1,4, 4a,5,6,7,8,81-octahydro-1,4-endo, endo-5,8-dimethano naphthalene)	0.0002
Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)	0.004
Methoxychlor (1,1,1-Trichloro-2, 2-bis [p-methoxyphenyl] ethane)	0.1
Toxaphene ($C_{10}H_{10}Cl_8$-Technical chlorinated camphene, 67-69 percent chlorine)	0.005
(b) Chlorophenoxys:	
2,4-D, (2,4-Dichlorophenoxyacetic acid)	0.1
2,4,5-TP Silvex (2,4,5-Trichlorophenoxypropionic acid)	0.01
(c) Total trihalomethanes (the sum of the concentrations of bromodichloromethane, dibromochloromethane, tribromomethane (bromoform) and trichloromethane (chloroform))	0.10 mg/l.

[40 FR 59570, Dec. 24, 1975, as amended at 44 FR 68641, Nov. 29, 1979]

§ 141.13 Maximum contaminant levels for turbidity.

The maximum contaminant levels for turbidity are applicable to both community water systems and non-community water systems using surface water sources in whole or in part. The maximum contaminant levels for turbidity in drinking water, measured at a representative entry point(s) to the distribution system, are:

(a) One turbidity unit (TU), as determined by a monthly average pursuant to § 141.22, except that five or fewer turbidity units may be allowed if the supplier of water can demonstrate to the State that the higher turbidity does not do any of the following:

(1) Interfere with disinfection;

(2) Prevent maintenance of an effective disinfectant agent throughout the distribution system; or

(3) Interfere with microbiological determinations.

(b) Five turbidity units based on an average for two consecutive days pursuant to § 141.22.

REFERENCE NO. 11

02-8705-10-SR
Rev. No. 0

FINAL DRAFT
SITE INSPECTION REPORT
ALSY MANUFACTURING
HICKSVILLE, NEW YORK

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8705-10
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

APRIL 4, 1988

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

JOHN A. DUCAR
PROJECT MANAGER

REVIEWED/APPROVED BY:

RONALD M. NAMAN
FIT OFFICE MANAGER
REGION 2

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1	Site Inspection Report Executive Summary
2	Environmental Protection Agency Form 2070-13
3	Maps and Photographs
4	Bibliography of Information Sources
5	Press Release Summary
6	Background Information

SECTION 1

SITE INSPECTION REPORT EXECUTIVE SUMMARY

NUS CORPORATION

02-8705-10-SR
Rev. 0

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
EXECUTIVE SUMMARY

Alsy Manufacturing
Site Name

NYD981184237
EPA Site ID Number

270 Duffy Avenue
Hicksville, New York 11801
Address

02-8705-10
TDD Number

SITE DESCRIPTION

Alsy Manufacturing is an active site where lamps and lamp shades are produced. It is located on the north side of Duffy Avenue in a densely populated industrial/residential area of Hicksville, Nassau County, New York.

Metal plating, finishing, and painting processes generate a variety of wastes, mainly solvents and heavy metals. The site has a past history of poor housekeeping practices. In 1984, Alsy was inspected by the New York State Department of Environmental Conservation (NYSDEC) and the Nassau County Department of Health. Unauthorized discharges and violations of the plant's State Pollutant Discharge Elimination System (SPDES) permit were discovered. Laboratory analysis of soil samples collected from the area behind the building indicated elevated levels of heavy metals and volatile organics. Alsy was ordered to cease all discharges and to clean up the contaminated areas. A criminal investigation had been conducted on the company. The criminal proceedings against the company were dismissed with prejudice in April 1987. Alsy Manufacturing agreed to pay a civil fine.

To date, the plant has cleaned out the leaching cesspools previously used to dispose of wastewater and removed the contaminated soil around them. The plant is currently under permit to discharge its treated wastewater into the sanitary sewer system.

On June 16, 1987, under direction of EPA Region 2, the NUS FIT team conducted a site inspection at Alsy Manufacturing which included collection of two groundwater samples, one sewer sample, and six soil samples.

(CONT'D)

Prepared by: John A. Ducar
of NUS Corporation

Date: 04/04/88

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
EXECUTIVE SUMMARY

Results of analyses of these samples showed groundwater contamination with 1,1,1-trichloroethane and a number of heavy metals above the Federal Drinking Water Standards. Soil sample analyses revealed high concentrations of a number of organics and inorganics, including cyanide, as well as PCBs and pesticides. The sewer sample revealed small concentrations of 1,1,1-trichloroethane. It should be noted that cyanide analysis for aqueous samples did not pass QA/QC, due to the fact the samples exceeded allowed holding time at the lab.

SECTION 2

ENVIRONMENTAL PROTECTION AGENCY FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D981194237

3

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Alsy Manufacturing

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
270 Duffy Avenue

03 CITY
Hicksville (Town of Oyster Bay)

04 STATE: NY
05 ZIP CODE: 11801
06 COUNTY: Nassau
07 COUNTY CODE: 059
08 CONG DIST.: 04

09 COORDINATES
LATITUDE: 40° 45' 47". N
LONGITUDE: 073° 32' 30". W

10 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE
_ B. FEDERAL
_ C. STATE
_ D. COUNTY
_ E. MUNICIPAL
_ F. OTHER
_ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 06 / 16 / 87 (MONTH DAY YEAR)

02 SITE STATUS
X ACTIVE
_ INACTIVE

03 YEARS OF OPERATION
1975 / Still Active
BEGINNING YEAR / ENDING YEAR
_ UNKNOWN

AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA
X B. EPA CONTRACTOR NUS Corp. (Name of firm)
_ C. MUNICIPAL
_ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
_ E. STATE
_ F. STATE CONTRACTOR _____ (Name of firm)
_ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
John A. Ducar	Geologist	NUS Corp.	(201) 225-6160
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Brian Pedersen	Chemical Engineer	NUS Corp.	(201) 225-6160
Pete Morton	Geologist	NUS Corp.	(201) 225-6160
Randy Rice	Geologist	NUS Corp.	(201) 225-6160
Dan deBruijn	Field Technician	NUS Corp.	(201) 225-6160
Sue Lenczyk	Field Technician	NUS Corp.	(201) 225-6160

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Burt Robbins	Plant Manager	270 Duffy Avenue Hicksville, NY	(516) 822-5252
Bob Derosa	Emergency Coordinator	270 Duffy Avenue Hicksville, NY	(516) 822-5252

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION _ WARRANT	0700	Sunny, hot, 85-90°F, winds 0-5 mph NW.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Diana Messina	U.S. EPA Region 2	(201) 321-6776

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
John A. Ducar	U.S. EPA	NUS Corp. FIT 2	(201) 225-6160	06 / 25 / 87 (MONTH DAY YEAR)

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- _ A. SOLID
- _ B. POWDER, FINES
- X C. SLUDGE
- _ D. OTHER _____ (Specify)
- _ E. SLURRY
- X F. LIQUID
- _ G. GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- _ B. CORROSIVE
- _ C. RADIOACTIVE
- X D. PERSISTENT
- _ E. SOLUBLE
- _ F. INFECTIOUS
- _ G. FLAMMABLE
- _ H. IGNITABLE
- X I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- _ K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS	Unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Nickel	7440-02-0	TK/OD/DR	98.5*	mg/L
MES	Chromium	7440-47-3	TK/OD/DR	530	ug/L
MES	Arsenic	7440-38-2	TK/OD/DR	302	ug/L
MES	Lead	7439-92-1	TK/OD/DR	341	ug/L
MES	Cadmium	7440-43-9	TK/OD/DR	0.33*	mg/L
IOC	Cyanide	57125	TK/OD/DR	182	mg/kg
SOL	Methylene chloride	75-09-2	TK/OD/DR	600*	ug/L
SOL	1,1,1-Trichloroethane	71-55-6	TK/OD/DR	600*	ug/L
SOL	1,1-Dichloroethane	75-34-3	TK/OD/DR	600*	ug/L
SOL	Toluene	108-88-3	TK/OD/DR	600*	ug/L
OCC	Ethyl benzene	100-41-4	TK/OD/DR	860	ug/L
MES	Barium	7440-39-3	TK/OD/DR	2210	ug/kg
MES	Beryllium	7440-41-7	TK/OD/DR	36	ug/kg
MES	Manganese	7439-96-5	TK/OD/DR	14700	ug/kg
MES	Mercury	7439-97-6	TK/OD/DR	3.2	ug/kg
OCC	Dimethyl phthalate	131-11-3	TK/OD/DR	510	ug/kg
OCC	Diethyl phthalate	84-66-2	TK/OD/DR	15J	ug/kg
OCC	Phenanthrene	85-01-8	TK/OD/DR	250J	ug/kg
OCC	Di-n-Butylphthalate	84-74-2	TK/OD/DR	58000	ug/kg
OCC	Fluoranthene	206-44-0	TK/OD/DR	71	ug/kg
OCC	Pyrene	129-00-0	TK/OD/DR	490J	ug/kg
OCC	Butylbenzyl phthalate	85-68-7	TK/OD/DR	2100	ug/kg
OCC	Bis(2-ethylheyxl)phthalate	117-81-7	TK/OD/DR	2800	ug/kg
OCC	Chrysene	218-01-9	TK/OD/DR	480J	ug/kg
OCC	Di-n-octyl phthalate	117-84-0	TK/OD/DR	140J	ug/kg
OCC	Benzo(a)anthracene	56-55-3	TK/OD/DR	42J	ug/kg
OCC	Benzo(b)fluoranthene	205-99-2	TK/OD/DR	440J	ug/kg
OCC	Benzo(k)fluoranthene	207-08-9	TK/OD/DR	60J	ug/kg
OCC	Benzo(a)pyrene	50-32-8	TK/OD/DR	280J	ug/kg
OCC	Total Xylenes	1330-20-7	TK/OD/DR	6200	ug/kg
OCC	Aroclor 1254	11097-69-1	TK/OD/DR	16,000	ug/kg
OCC	Aroclor 1260	11096-82-5	TK/OD/DR	3900	ug/kg
PSD	4,4'-DDE	72-55-9	TK/OD/DR	170	ug/kg
PSD	4,4'-DDD	72-54-8	TK/OD/DR	53	ug/kg
PSD	4,4'-DDT	50-29-3	TK/OD/DR	210	ug/kg
OCC	Tetrachloroethene	127-18-4	TK/OD/DR	35	ug/kg
OCC	Carbon Disulfide	75-15-0	TK/OD/DR	27	ug/kg

TK = tank OD = open dump DR = drum
* NYSDEC Analysis J = below contract detection limit, but above instrument detection limit

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Xylene	1330-20-7	FDS	Copper Cyanide	4-49-23
FDS	Acetone	67-64-1	FDS	1,1,1-Trichloroethane	71-55-6
FDS	Methylene Chloride	75-09-2	FDS		
FDS	Zinc Cyanide	55-72-11	FDS		

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.
NUS Corporation Region 2 FIT site inspection, conducted on 6/16/87, TDD No. 02-8705-10.

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 X OBSERVED (DATE: 6/16/87) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 137,959 — 04 NARRATIVE DESCRIPTION

There is observed groundwater contamination which may be attributed to leaching cesspools used in the past to discharge the wastes. This observation arises from the fact that discharge limits were exceeded and unpermitted discharges took place. T soil in the area is very sandy and has a high permeability. There are two unconfined aquifers in the area of the site that are hydraulically connected: the Upper Glacial Aquifer, which is located 100-150 feet below the surface of the ground, and t Magothy Aquifer, located 150-700 feet below the surface, which is the only aquifer used for public drinking supply in the area. Analysis of samples collected during the NUS site inspection revealed high levels of heavy metals in the groundwater.

01. B. SURFACE WATER CONTAMINATION — 02 _ OBSERVED (DATE:) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

There is no potential for surface water contamination since there are no bodies of water downgradient within a 3-mile radius of the site.

01 C. CONTAMINATION OF AIR — 02 _ OBSERVED (DATE:) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

There is no potential for contamination of the air since the contaminants are confined to the groundwater, soil, and possibl the sewer system. There were no readings above background on the OVA or HNu in the ambient air.

01. X D. FIRE/EXPLOSIVE CONDITIONS — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 73,271 — 04 NARRATIVE DESCRIPTION

There is a slight potential for fire/explosive conditions since many of the solvents kept on site are flammable. Alsy Manufacturing has had several fires at the site within the past 2 years. It is not known, however, if the fires can be attributed to wastes stored at the site.

01. X E. DIRECT CONTACT — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 13,611 — 04 NARRATIVE DESCRIPTION

There is potential for direct contact with soil on the site. The plant is active and there are openings in the fence that surrounds the perimeter of the property. Sampling results by the NYSDEC in 1984 indicated that there were hazardous substances present in the soil. Alsy has allegedly removed the contaminated soil, but there were no State or local agency representatives present to observe the cleanup. Analysis of samples collected during the NUS site inspection revealed contamination of the soil on site.

01 X F. CONTAMINATION OF SOIL — 02 X OBSERVED (DATE: 02/84, 6/16/87) — _ POTENTIAL — _ ALLEGED
03 AREA POTENTIALLY AFFECTED: 2.3 (ACRES) — 04 NARRATIVE DESCRIPTION

There is confirmed contamination of the soil from alleged unauthorized discharge of wastewater onto the ground surface in 1984. NYSDEC observed stained soil on the site. The NUS site inspection revealed the presence of several inorganic and organic compounds, as well as PCBs and pesticides in the soils and sediments collected at the site. Soil samples were collected 1-2 feet below the surface. Airborne particulate problems are minimal.

01. X G. DRINKING WATER CONTAMINATION — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 137,959 — 04 NARRATIVE DESCRIPTION

There is potential for drinking water contamination due to the fact that discharge permit limits were exceeded in the past. Also, unpermitted discharges allegedly took place, and the population depends on groundwater as its sole source of drinking water. Samples taken during the NUS site inspection revealed groundwater contamination at the site.

01 X H. WORKER EXPOSURE/INJURY — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

There is potential for worker exposure or injury due to the presence of contaminated soil on the site.

01 X I. POPULATION EXPOSURE/INJURY — 02 _ OBSERVED (DATE:) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 137,959 — 04 NARRATIVE DESCRIPTION

There is potential for population exposure/injury via groundwater contamination of the Upper Glacial Aquifer. Groundwater is the sole source of drinking water in the area surrounding the site. There is also potential for population exposure via direct contact with hazardous substances in the soil on site.

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA — 02 OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

There is no potential for damage to flora. The waste is currently treated inside the building before being discharged to the sanitary sewer system.

01 _ K. DAMAGE TO FAUNA — 02 OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

There is no potential for damage to fauna. The area within a 3-mile radius of the site is urban.

01 L. CONTAMINATION OF FOOD CHAIN — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

There is no potential for contamination of the food chain. Groundwater is not used for irrigation in the area, and there is no surface water within a 3-mile radius of the site.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 X OBSERVED (DATE: 08/01/84) _ POTENTIAL _ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 13,611 — 04 NARRATIVE DESCRIPTION

The Nassau County Department of Health observed an unauthorized discharge of wastewater onto the ground. Stained soil, possibly from leaking drums on the site, was also observed. Wastes in the past were discharged to leaching cesspools.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

The potential for damage to off-site property exists since contaminants may migrate off site via the groundwater or the storm sewers.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 X OBSERVED (DATE: 6/16/87) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

There is no significant potential for contamination of sewers since the wastewater is currently treated before being discharged into the sanitary sewer system under permit. The NUS site inspection revealed contamination of a storm sewer with trace amounts of 1,1,1 trichloroethane on the site.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 X OBSERVED (DATE: 08/01/84) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

The Nassau County Department of Health (NCDH) observed unauthorized discharges of wastewater onto the ground surface. Also, the NCDH has reported that Alsy Manufacturing had exceeded its SPDES discharge permit on a number of instances in 1984.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 137,959

IV. COMMENTS

The site has been under investigation by the NYSDEC and the Nassau County Department of Health since 1984. All of the violations have been resolved within the past 2 years (1986).

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.
NUS Corporation on-site reconnaissance conducted on 06/05/87, TDD No. 02-8705-10.
NUS Corporation site inspection conducted on 06/16/87, TDD No. 02-8705-10.
General Software Corporation, 1984, GEMS, Graphic Exposure Modeling System.
Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water - Management Alternatives, Geological Survey Professional Paper 627 - F.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D981184237

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
_ A. NPDES				
_ B. UIC				
_ C. AIR				
_ D. RCRA				
_ E. RCRA INTERIM STATUS				
_ F. SPCC PLAN				
X G. STATE (Specify) SPDES	NY0102539	1977	1984	Discharge of industrial wastes.
X H. LOCAL (Specify) Sewer	21	05/15/87	05/15/90	Industrial discharge to sewers.
_ I. OTHER (Specify)				
_ J. NONE				

III. SITE DESCRIPTION

01 Storage/Disposal (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
_ A. SURFACE IMPOUNDMENT			_ A. INCINERATION	X A. BUILDINGS ON SITE
_ B. PILES			_ B. UNDERGROUND INJECTION	
X C. DRUMS, ABOVE GROUND	Unknown		X C. CHEMICAL/PHYSICAL	1
X D. TANK, ABOVE GROUND	Unknown		_ D. BIOLOGICAL	06 AREA OF SITE
_ E. TANK, BELOW GROUND			_ E. WASTE OIL PROCESSING	
_ F. LANDFILL			_ F. SOLVENT RECOVERY	
_ G. LANDFARM			_ G. OTHER RECYCLING/RECOVERY	2.3
X H. OPEN DUMP	Unknown		_ H. OTHER (Specify)	(Acres)
_ I. OTHER (Specify)				

07 COMMENTS

Alsy Manufacturing had an SPDES permit for one sanitary cesspool and three industrial cesspools authorized to receive various metals. However, Alsy violated this permit by using unauthorized point sources, use of sanitary system for discharge of industrial pollutants, discharges above allowable permit limits, violation of effluent standards, and discharge of unauthorized pollutants, particularly solvents. NYSDEC inspectors have discovered contaminated soil on the site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

X A. ADEQUATE, SECURE (Present) _ B. MODERATE X C. INADEQUATE, POOR (Past) _ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

In the past, wastewater was disposed of in on-site leaching pits which discharged wastes directly to the groundwater. Also, the pits overflowed onto the ground surface on occasion. On August 1, 1984, NYSDEC inspectors observed stained soil and pavement on the site. Currently, the wastewater is treated inside the building before being discharged to the Nassau County Sewer System.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: _ YES X NO

02 COMMENTS

Before being discharged into the sanitary sewer system, the wastes are kept and treated in tanks inside the building. A secondary containment consisting of an impervious berm constructed of fiberglass-covered concrete surrounds the tanks. The contaminated soils are below the surface of the ground.

VI SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.
NUS Corporation Region 2 FIT on-site reconnaissance conducted on 06/05/87, TDD No. 02-8705-10.
NUS Corporation Region 2 FIT site inspection conducted on 06/16/87, TDD No. 02-8705-10.
Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water - Management Alternatives, Geological Survey Professional Paper 627 - F.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D981184237

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

02 STATUS

03 DISTANCE TO SITE

	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A. _	B. X	A. _	B. _	C. X	A. 0.61 (mi)
NON-COMMUNITY	C. _	D. _	D. _	E. _	F. _	B. _ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

X A. ONLY SOURCE FOR DRINKING

_ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

_ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)

_ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 137,959

03 DISTANCE TO NEAREST DRINKING WATER WELL: 0.61 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
60 (ft)	north to south	60 (ft)	2,016,000 (gpd)	X YES _ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Public drinking water wells are installed to a depth of 500-600 feet to the Magothy Formation. Private wells average 100-200 feet in depth to Upper Glacial aquifer. All wells are located within a well-populated urban area. The two aquifers are hydraulically connected. There is no substantial confining layer dividing the two formations in the area of the site.

10 RECHARGE AREA

X YES
_ NO

COMMENTS There are a large number of recharge basins in the area.

11. DISCHARGE AREA

_ YES
X NO

COMMENTS There is no surface water within a 3-mile radius of the site.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

_ A. RESERVOIR, RECREATION DRINKING WATER SOURCE

_ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES

_ C. COMMERCIAL, INDUSTRIAL

X D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None within 3 miles		(mi)
		(mi)
		(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 13,611 NO. OF PERSONS	B. 73,271 NO. OF PERSONS	C. 137,959 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0.01 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 22,297

04 DISTANCE TO NEAREST OFF-SITE BUILDING: adjacent (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

The site is located on the north side of Duffy Avenue in a densely populated industrial/residential section of Hicksville, New York. To the north of Duffy Avenue, the area is mainly industrial with a variety of factories and office buildings. To the south of the street and surrounding areas lies a densely populated residential neighborhood.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D981184237

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

_ A. 10^{-6} - 10^{-8} cm/sec _ B. 10^{-4} - 10^{-6} cm/sec _ C. 10^{-4} - 10^{-3} cm/sec X D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

X A. IMPERMEABLE (Less than 10^{-6} cm/sec) _ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) _ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) _ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK: 1100 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE: 20 (ft) (approx. depth of cesspools)

05 SOIL pH: 6.55 - 8.15

06 NET PRECIPITATION: 14 (in)

07 ONE YEAR 24 HOUR RAINFALL: 2.5 (in)

08 SLOPE
SITE SLOPE: 0-2 %
DIRECTION OF SITE SLOPE: Southwest
TERRAIN AVERAGE SLOPE: 0.4 %

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN _ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

10

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. > 2 (mi)
OTHER: B. > 1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): > 1 (mi)

ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL: A. adjacent (mi)
RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES: B. 0.02 (mi) (residential homes)
AGRICULTURAL LANDS
PRIME AG LAND: C. > 2 (mi)
AG LAND: D. >2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located in a relatively flat area of Long Island. Elevation is approximately 135 feet above sea level, with a gentle slope of 0.4 percent to the southwest. There are excavated gravel pits approximately one-quarter mile to the northwest and west of the site with depths of about 40 feet.

VII SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

NUS Corporation Region 2 FIT site inspection, conducted 06/16/87 TDD No. 02-8705-10.
U.S. Dept. of the Interior, Geological Survey Topographic Map, 7.5 minute series, "Hicksville Quadrangle, NY", 1967 Revised 1979.
New York State Department of Environmental Conservation Files.
Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water - Management Alternatives, Geological Survey Professional Paper 627 - F.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D981194237

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Organics:	York Laboratories 200 Monroe Turnpike Monroe, CT 06468 Attn: John Culick	Results Received: 10/7/87
SURFACE WATER	1			
WASTE				
AIR				
RUNOFF				
SPILL		Inorganics:	Spectrix Corp. 3911 Fondren Suite 100 Houston, TX 77063 Attn: Ken Erondu	Results Received: 1/19/88
SOIL	6			
VEGETATION				
OTHER				

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
ir Monitoring VA/HNu	Readings above background were observed on the well behind the Cycle II warehouse: OVA 30 ppm, HNu 15 ppm. Also, above-background readings were observed on a sanitary basin in the loading area: OVA 8 ppm, HNu 10 ppm.
raeger Tubes	No readings were detected on the cyanide, toluene, or ethyl benzene Draeger tubes used on the well behind the Cycle II warehouse.
adiation	The Radiation Mini-alert was used to monitor for radiation. No readings above background were observed.

V. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND X AERIAL 02 IN CUSTODY OF NUS Corp. FIT 2, Edison, New Jersey
(Name of organization or individual)

03 MAPS X YES _ NO 04 LOCATION OF MAPS NUS Corp. FIT 2 Project Files, Edison, NJ

. OTHER FIELD DATA COLLECTED (Provide narrative description)

ield notes recorded in Field Notebook No. 0082, filed under TDD No. 02-8705-10.
hotolog of photos taken on 06/16/87, filed under TDD No. 02-8705-10.

I. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

NUS Corp. Region 2 FIT Site Reconnaissance conducted 06/05/87, TDD No. 02-8705-10.
NUS Corp., Region 2 FIT, site inspection conducted on 06/16/87, TDD No. 02-8705-10.

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D081194227

II. CURRENT OWNER(S)

01 NAME	02 D + B NUMBER	08 NAME (PARENT COMPANY (If applicable))	09 D + B NUMBER
Surrey Corp. (property owner)			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
6901 Jericho Turnpike			
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
Syosset / NY	11791		

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
Alsy Manufacturing (factory owner)			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
270 Duffy Avenue			
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
Hicksville / NY	11801		

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE

01 NAME	02 D + B NUMBER	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD#, etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D + B NUMBER	01 NAME	02 D + B NUMBER
Balatem Realty			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
Unknown			
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D + B NUMBER	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

01 NAME	02 D + B NUMBER	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D081194227

II. CURRENT OPERATOR(S)

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
Alsy Manufacturing			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
270 Duffy Avenue			
05 CITY / 06 STATE	07 ZIP CODE	14 CITY / 15 STATE	16 ZIP CODE
Hicksville NY	11801		
08 YEARS OF OPERATION / 09 NAME OF OWNER			
12 / Surrey Corp.			

OPERATOR'S PARENT COMPANY (If applicable)

III. PREVIOUS OPERATOR(S) (List most recent first: Provide only if different from owner)

PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
Metalab Equipment Corp.			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
270 Duffy Avenue			
05 CITY / 06 STATE	07 ZIP CODE	14 CITY / 15 STATE	16 ZIP CODE
Hicksville NY	11801		
08 YEARS OF OPERATION / 09 NAME OF OWNER			

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	14 CITY / 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION / 09 NAME OF OWNER			

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	14 CITY / 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION / 09 NAME OF OWNER			

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D081124237

II ON-SITE GENERATOR

01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE

III OFF-SITE GENERATOR(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
Techtronic Ecological Co.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
Walworth Street					
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Brooklyn	NY	11205			

01 NAME		02 D + B NUMBER	01 NAME		02 D + B NUMBER
Chemical Management Inc.					
03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD#, etc.)		04 SIC CODE
340 Eastern Parkway					
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Farmingdale	NY	11735			

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Alsy Manufacturing waste manifests and records, 1987.

II. PAST RESPONSE ACTIVITIES

01 ___ A. WATER SUPPLY CLOSED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ D. SPILLED MATERIAL REMOVED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 X E. CONTAMINATED SOIL REMOVED — 02 DATE: 1985 — 03 AGENCY: _____
04 DESCRIPTION

Alsy Manufacturing removed soil around leaching cesspools, but the operation was not observed by any State or local authorities.

01 ___ F. WASTE REPACKAGED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 X G. WASTE DISPOSED ELSEWHERE — 02 DATE: 1985 — 03 AGENCY: _____
04 DESCRIPTION

The removed soil was taken off site and disposed of elsewhere by a contractor for Alsy Manufacturing, without supervision by any State or local authorities.

01 ___ H. ON SITE BURIAL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ I. IN SITU CHEMICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ K. IN SITU PHYSICAL TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ L. ENCAPSULATION — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ M. EMERGENCY WASTE TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ N. CUTOFF WALLS — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ P. CUTOFF TRENCHES/SUMP — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ Q. SUBSURFACE CUTOFF WALL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

II. PAST RESPONSE ACTIVITIES

01 ___ R. BARRIER WALLS CONSTRUCTED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ S. CAPPING/COVERING — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ T. BULK TANKAGE REPAIRED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ U. GROUT CURTAIN CONSTRUCTED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ V. BOTTOM SEALED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ W. GAS CONTROL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ X. FIRE CONTROL — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ Y. LEACHATE TREATMENT — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ Z. AREA EVACUATED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ 1. ACCESS TO SITE RESTRICTED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 ___ 2. POPULATION RELOCATED — 02 DATE: _____ — 03 AGENCY: _____
04 DESCRIPTION

No previous history.

01 X 3. OTHER REMEDIAL ACTIVITIES — 02 DATE: 1985 — 03 AGENCY: _____
04 DESCRIPTION

The leaching cesspools were cleaned out by Alsy Manufacturing, and the sludge was removed off site without supervision by State or local authorities. The cesspools are no longer in use.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

New York State Department of Environmental Conservation Files.

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES _ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Alsy Manufacturing was issued a Summary Abatement Order on April 9, 1985 by the NYSDEC Stony Brook office. The company was ordered to remove all liquid and sludge wastes from all manholes, catchbasins, and leaching cesspools, and to disconnect and remove all piping leading to them. The case was assigned to the State Attorney General for criminal prosecution on Septembe 20, 1985. The criminal case was dismissed with prejudice in April 1987. Alsy Manufacturing was assessed a civil penalty which they agreed to pay. All past violations have ceased, and the company currently discharges its wastewater under permit into the Nassau County Sewer System.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, report)

New York State Department of Environmental Conservation Files.

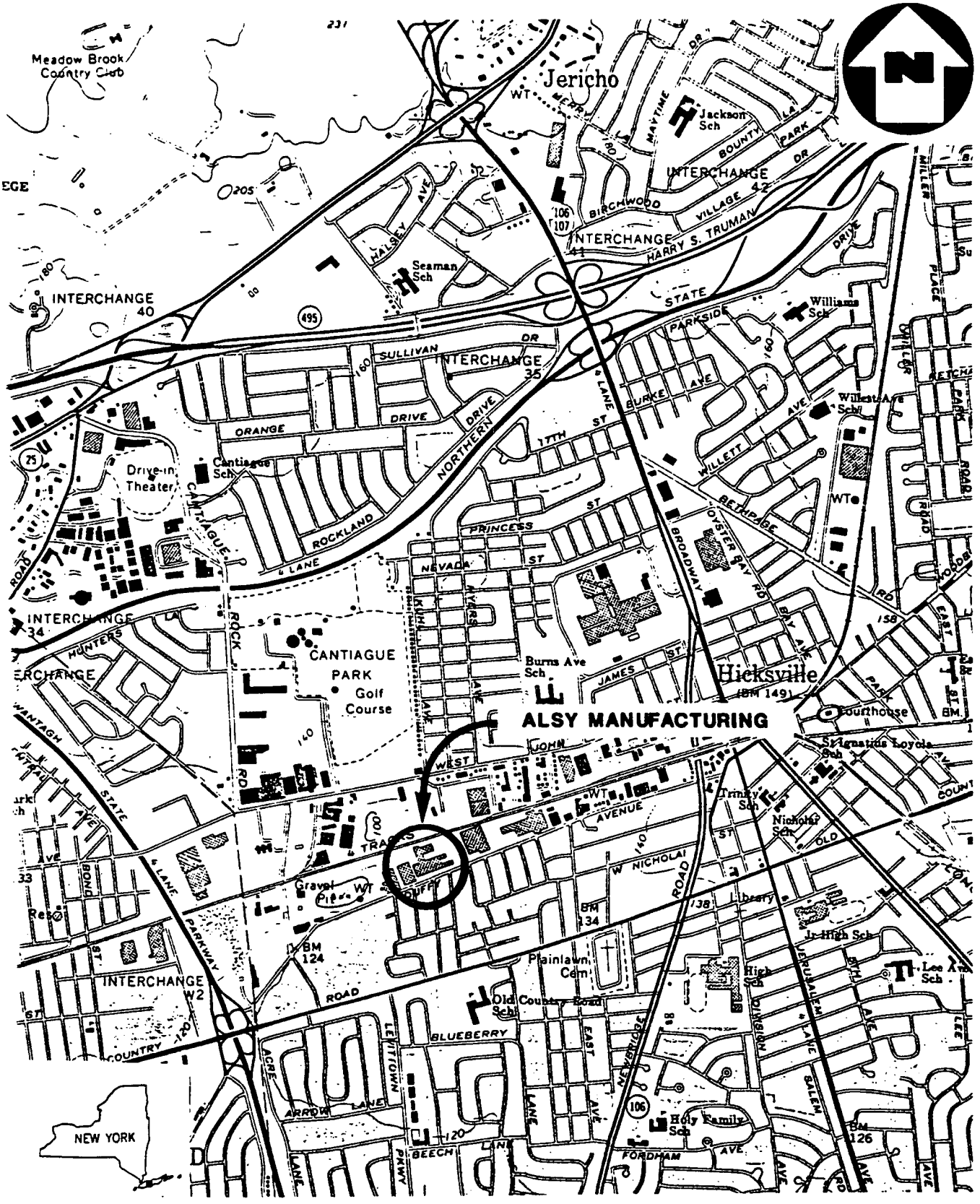
SECTION 3

MAPS AND PHOTOGRAPHS

ALSY MANUFACTURING
HICKSVILLE, NEW YORK

CONTENTS

Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Sample Location Map
Exhibit A: Photograph Log



(QUAD)HICKSVILLE

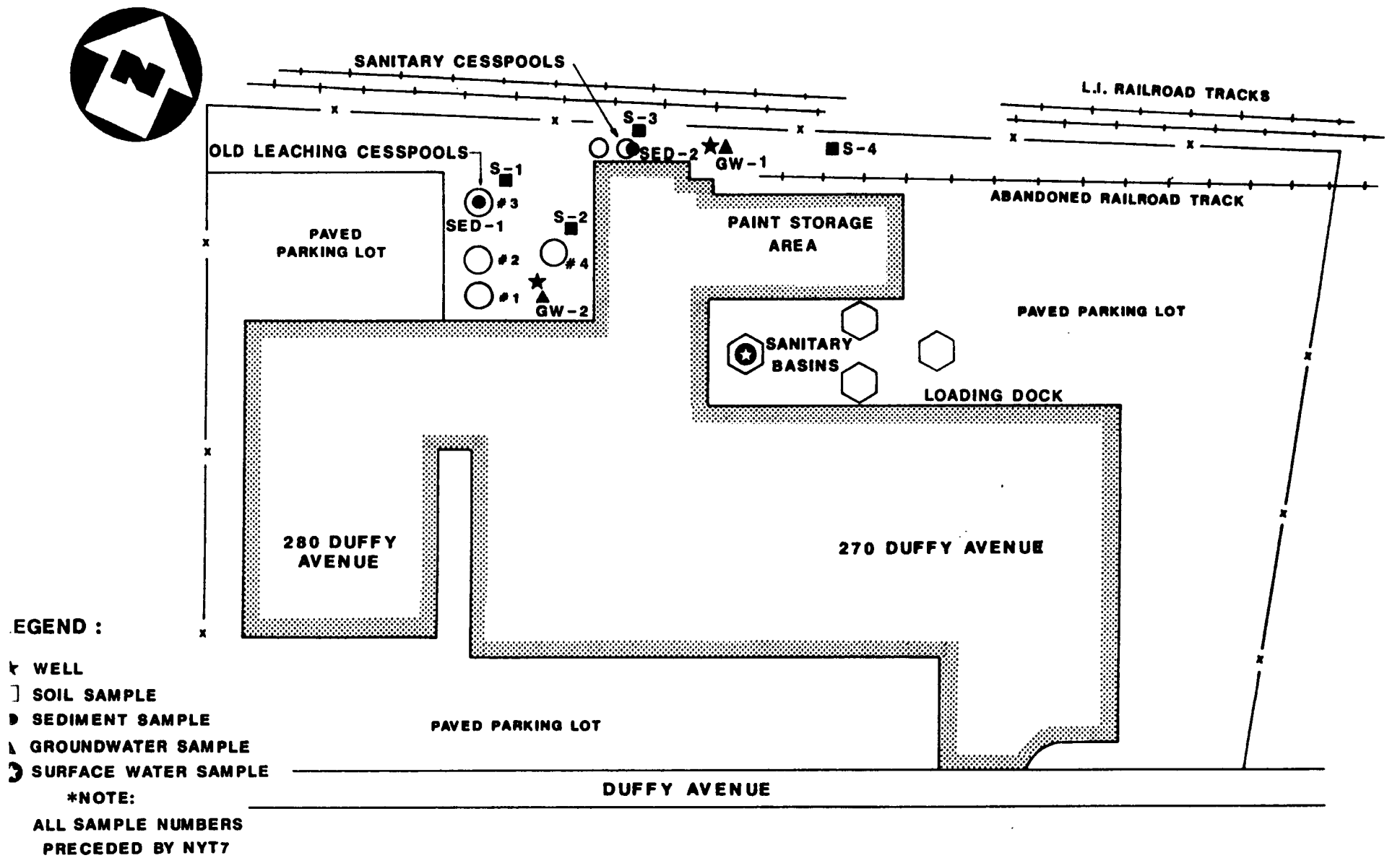
SITE LOCATION MAP

ALSY MANUFACTURING, HICKSVILLE, N.Y.

SCALE: 1" = 2000'

FIGURE 1

NUS CORPORATION



EGEND :

- WELL
- SOIL SAMPLE
- SEDIMENT SAMPLE
- GROUNDWATER SAMPLE
- SURFACE WATER SAMPLE

*NOTE:
ALL SAMPLE NUMBERS PRECEDED BY NYT7

FIGURE 3

SAMPLE LOCATION MAP

ALSY MANUFACTURING, HICKSVILLE, N.Y.

(NOT TO SCALE)

NUS CORPORATION

02-8705-10-SR
Rev. No. 0

EXHIBIT A

PHOTOGRAPH LOG

ALSY MANUFACTURING
HICKSVILLE, NEW YORK
TDD NO. 02-8705-10
JUNE 16, 1987

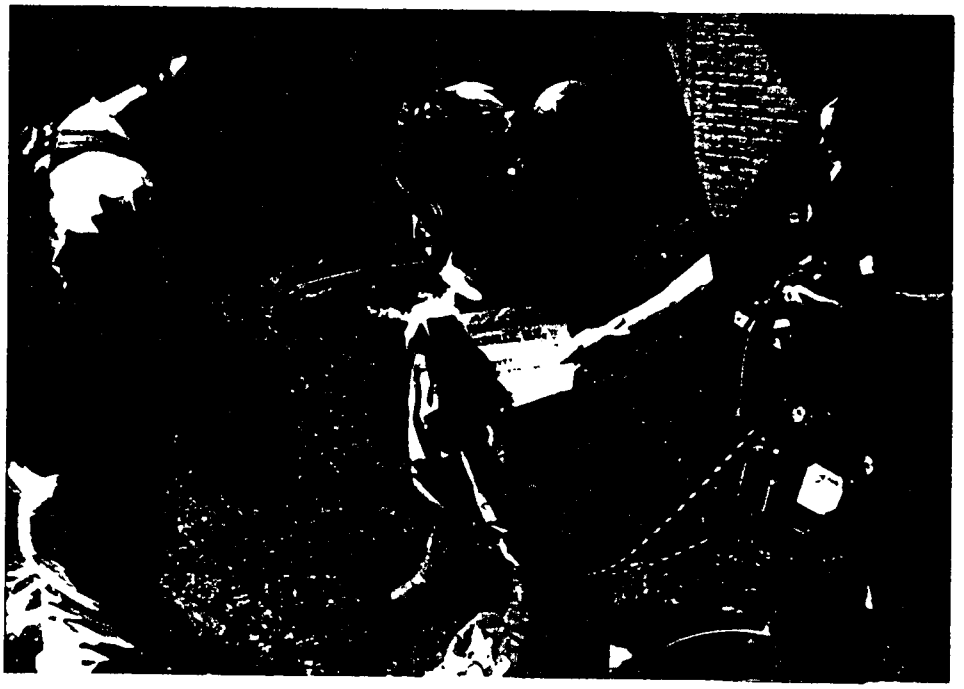
ALSY MANUFACTURING
HICKSVILLE, NEW YORK
TDD No 02-8705-10
JUNE 16, 1987

PHOTOGRAPH INDEX

ALL PHOTOS TAKEN BY JOHN DUCAR.

Photo Number	Description	Time
1P-1	D. deBruijn and P. Morton taking GW-1.	1020
1P-2	D. deBruijn and P. Morton taking GW-2.	1225
1P-3	D. deBruijn and P. Morton taking SW-1 from sanitary basin.	1320
1P-4	D. deBruijn taking S-1 near leaching cesspool No. 3	1500
1P-5	P. Morton taking SED-1 from leaching cesspool No. 3.	1515
1P-6	D. deBruijn taking S-2 near leaching cesspool No. 4.	1525
1P-7	D. deBruijn taking S-3 near sanitary cesspool.	1600
1P-8	D. deBruijn taking S-4 near railroad spur.	1610
1P-9	P. Morton taking SED-2 from sanitary cesspool.	1630

ALSY MANUFACTURING, HICKSVILLE, NEW YORK



1P-1 June 16, 1987 1020
D. deBruijn and P. Morton taking GW-1.
Photographer: John Ducar.

1P-2 June 16, 1987 1225
D. deBruijn and P. Morton taking GW-2.
Photographer: John Ducar.

ALSY MANUFACTURING, HICKSVILLE, NEW YORK

1P-3 June 16, 1987 1320
D. deBruijn and P. Morton taking SW-1 from sanitary basin.
Photographer: John Ducar.

1P-4 June 16, 1987 1500
D. deBruijn taking S-1 near leaching cesspool No. 3.
Photographer: John Ducar.

ALSY MANUFACTURING, HICKSVILLE, NEW YORK

1P-5 June 16, 1987 1515
P. Morton taking SED-1 from leaching cesspool No. 3.
Photographer: John Ducar.

1P-6 June 16, 1987 1525
D. deBruijn taking S-2 near leaching cesspool No. 4.
Photographer: John Ducar.

ALSY MANUFACTURING, HICKSVILLE, NEW YORK

1P-7 June 16, 1987 1600
D. deBruijn taking S-3 near sanitary cesspool.
Photographer: John Ducar.

1P-8 June 16, 1987 1610
D. deBruijn taking S-4 near railroad spur.
Photographer: John Ducar.

ALSY MANUFACTURING, HICKSVILLE, NEW YORK

1P-9 June 16, 1987 1630
P. Morton taking SED-2 from sanitary cesspool.
Photographer: John Ducar.

SECTION 4

BIBLIOGRAPHY OF INFORMATION SOURCES

BIBLIOGRAPHY OF INFORMATION SOURCES

	SOURCE	LOCATION
1.	NUS Corporation, Region 2 FIT site inspection conducted on June 16, 1987, TDD No. 02-8705-10.	NUS Corporation Edison, New Jersey
2.	Franke, O.L., and N.E. McClymonds. Summary of the hydrologic situation on Long Island, New York, as a guide to waste-management alternatives. 1975.	NUS Corporation Edison, New Jersey
3.	Henry, K.U. and D.J. Sulam, Hydrologic and water-quality appraisal of southeast Nassau County, Long Island, New York, 1979.	NUS Corporation Edison, New Jersey
4.	Dispersal of plating wastes and sewage contaminants in groundwater and surface water, South Farmingdale - Massapequa area, Nassau County, New York, U.S. Geological Survey, 1970.	NUS Corporation Edison, New Jersey
5.	The changing pattern of groundwater development on Long Island, New York, Geological Survey, 1965.	NUS Corporation Edison, New Jersey
6.	Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix 1, 1986.	NUS Corporation Edison, New Jersey
7.	Soil Survey of Nassau County, New York, U.S. Department of Agriculture. 1987.	NUS Corporation Edison, New Jersey.
8.	NYSDEC file on Alsy Manufacturing.	NUS Corporation Edison, New Jersey
9.	Community Water Supplies and Monitoring Wells within a 3-mile radius of the site. Supplied by Nassau County Department of Health.	NUS Corporation Edison, New Jersey
10.	U.S. Dept. of the Interior, Geological Survey Topographic Map "Hicksville Quadrangle, New York," 1967, revised 1979.	NUS Corporation Edison, New Jersey
11.	Alsy Manufacturing Waste Manifests and Nassau County. Sewer permit	NUS Corporation Edison, New Jersey
12.	Telecons between B. O'Brien, NYSDEC, Stonybrook Office, and J. Ducar, NUS Corp., on 05/26/87 and 06/02/87.	NUS Corporation Edison, New Jersey

BIBLIOGRAPHY OF INFORMATION SOURCES

13.	Telecon between, D. Myott of Nassau County Department of Health and J. Ducar of NUS Corp., 12/1/87.	NUS Corporation Edison, New Jersey
14.	General Sciences Corporation "Draft Graphical Exposure System (GEMS)" U. S. EPA, 1987.	NUS Corporation Edison, New Jersey
15.	Investigation Report by Nassau County Fire Commission Office of Fire Marshal.	NUS Corporation Edison, New Jersey
16.	U.S. Dept. of Interior National Register for National Natural Landmarks for New York, 1987.	NUS Corporation Edison, New Jersey
17.	U.S. EPA Contract Laboratory Program, York Laboratories, Case No. 7459, Organic Laboratory Analysis from NUS Region 2 FIT Site Inspection conducted June 16, 1987.	NUS Corporation Edison, New Jersey
18	U.S. EPA Contract Laboratory Program, Spectrix Corporation, Case No. 7459, Inorganic Laboratory Analysis from NUS Region 2 FIT Site Inspection conducted June 16, 1987.	NUS Corporation Edison, New Jersey

SECTION 5

PRESS RELEASE SUMMARY

SUMMARY STATEMENT

Alsy Manufacturing in Hicksville, Nassau County, N.Y. has been an active producer of lamps and lamp shades since 1975. The site covers 2.3 acres and the property is owned by Surrey Corp. Previous owners include Metalab Equipment Corp., which produced heavy machinery in the early 1950s until a date which is unknown.

The site is located in a densely populated industrial/residential area of Long Island, New York. It is bordered to the north by the Long Island Railroad, to the south by Duffy Avenue and residential homes, and to the east and west by other companies. Population within a 1-mile radius of the site is 13,611.

Metal plating, finishing, and painting processes generate a variety of wastes, consisting mainly of solvents and heavy metals. The site has been under investigation by the New York State Department of Environmental Conservation (NYSDEC) and the Nassau County Department of Health since 1984. The plant has had a history of poor housekeeping and had been cited for violating its State Pollutant Discharge Elimination System (SPDES) permit on several occasions.

Alsy previously discharged its wastewater into leaching cesspools located in the rear of the building. The waste would percolate freely through the very permeable, unsaturated soil to the water table. The area near the cesspools was known to have flooded from overflowed wastewater on several occasions. Also, observations of stained pavement near the drum storage area indicated that the drums of waste paint and paint sludge stored outside the building in an alley were leaking.

The entire population within a 3-mile radius of the site uses groundwater as its sole source for drinking water. There is no surface water use within a 3-mile radius of the site.

On June 16, 1987, a site inspection was conducted on Alsy Manufacturing's property which included collection of two groundwater samples, one sewer sample, and six soil samples.

The groundwater samples analyzed revealed the presence of 1, 1, 1-trichloroethane, along with a number of heavy metals in concentrations above the Federal Drinking Water standards.

Soil sample analysis showed the presence of a number of organics and inorganics, including cyanide, PCBs, and pesticides.

SECTION 6

BACKGROUND INFORMATION

REFERENCE 1

0030-F
02-8705-10

NUS CORPORATION

II

0082

Alsy Manufacturing 02-8705-10 4

Arrive on site 0858 6/5/87

0900 Tailgate safety meeting conducted

NUS Personnel

John Ducar John Ducar PM
Brian Pedersen Brian Pedersen SSO
Mike Gentits Michael N. Gatti Sampler

Non-NUS Personnel

Burt Robbins, plant mgr.
Bob Derosa, emergency Coordinator

Weather: sunny, warm, light breeze
2-5 mph 70°+

Alan J. Thorson 6/19/87 J. Ducar 6/5/87

Alsy Manufacturing 02-8705-10 6/5/87 5

0910 Met Mr. Robbins at reception area. He took me for a tour of the plant explaining to me the wastewater operation and how it is treating before being discharged into the sewer system

0925 set up decon behind the building, north side of building

0950 Mike Gentils suits up

SCBA # ~~no number~~ EPA on ~~regulator~~ 190006

Mini Rad # 469785

OVA # M
EPA # 469784

HNu # J
EPA # 469745

Dragar ~~Tube~~ Pump # A

Brian Pedersen
SCBA # 192069

1005 Mike Gentil on air

Alan Thompson

J Dean 6/5/87

Alsy Mfg 02-8705-10 6/5/87 6

1006 M. Gentil opens well behind 270 pollution area.
no readings on OVA or HNu

Casing is about 6" below well opening (top of stick up)

1008 M. Gentils checks old cesspool #1 nearest to the buiding ~~no~~ it is covered, goes to cesspool #2

Lot 1)

1010 M. Gentils checks old cesspool #2 north of first cesspool ~~#2~~
no readings on HNU, OVA

1013 M. Gentils checks old cesspool #3 north of last one.
no readings on HNU, OVA

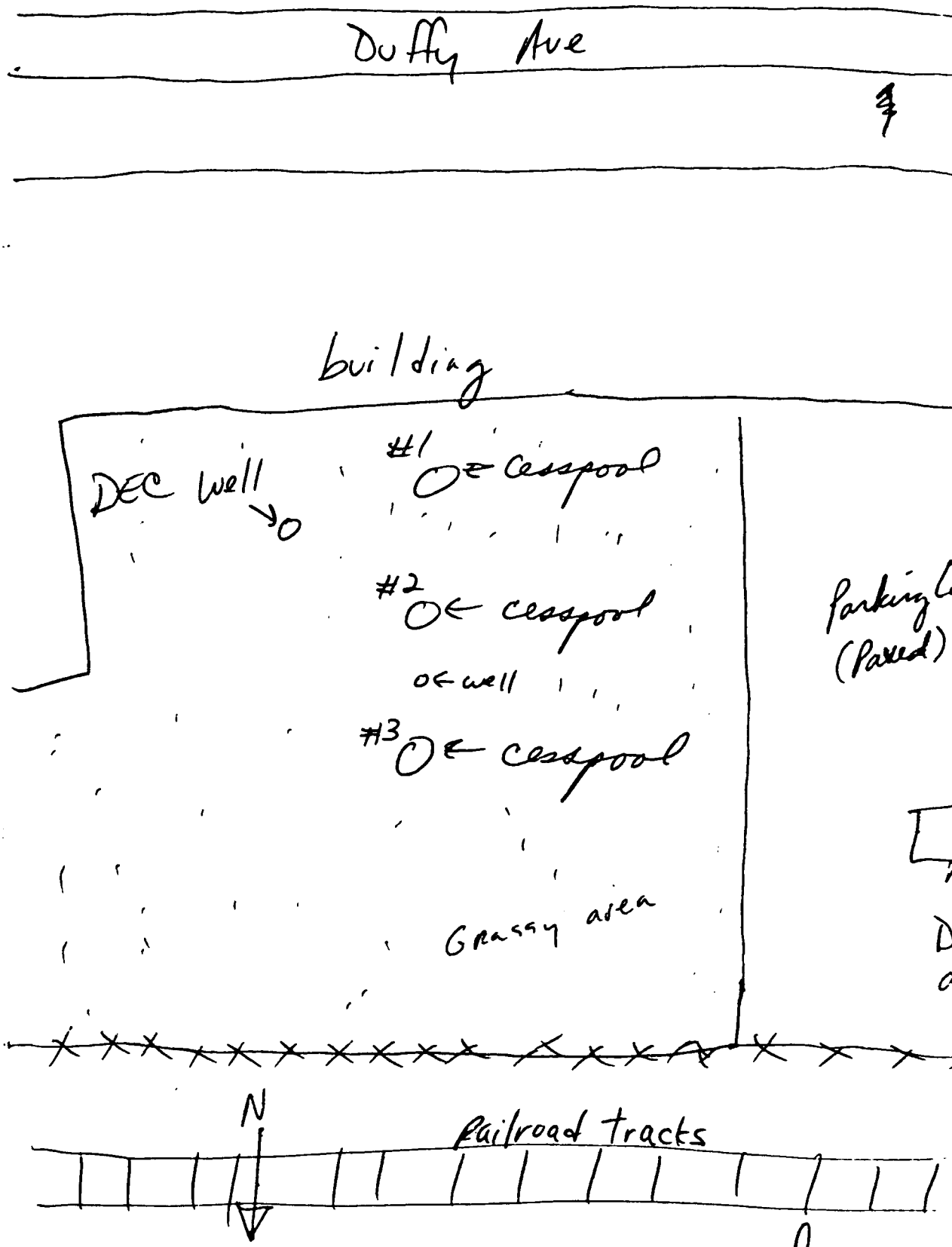
Decon area

1016 M. Gentils goes back to first cesspool nearest to the building, no readings HNU, OVA

1018 M. Gentils checks a small well between cesspool #1 and #2
No readings HNU, OVA

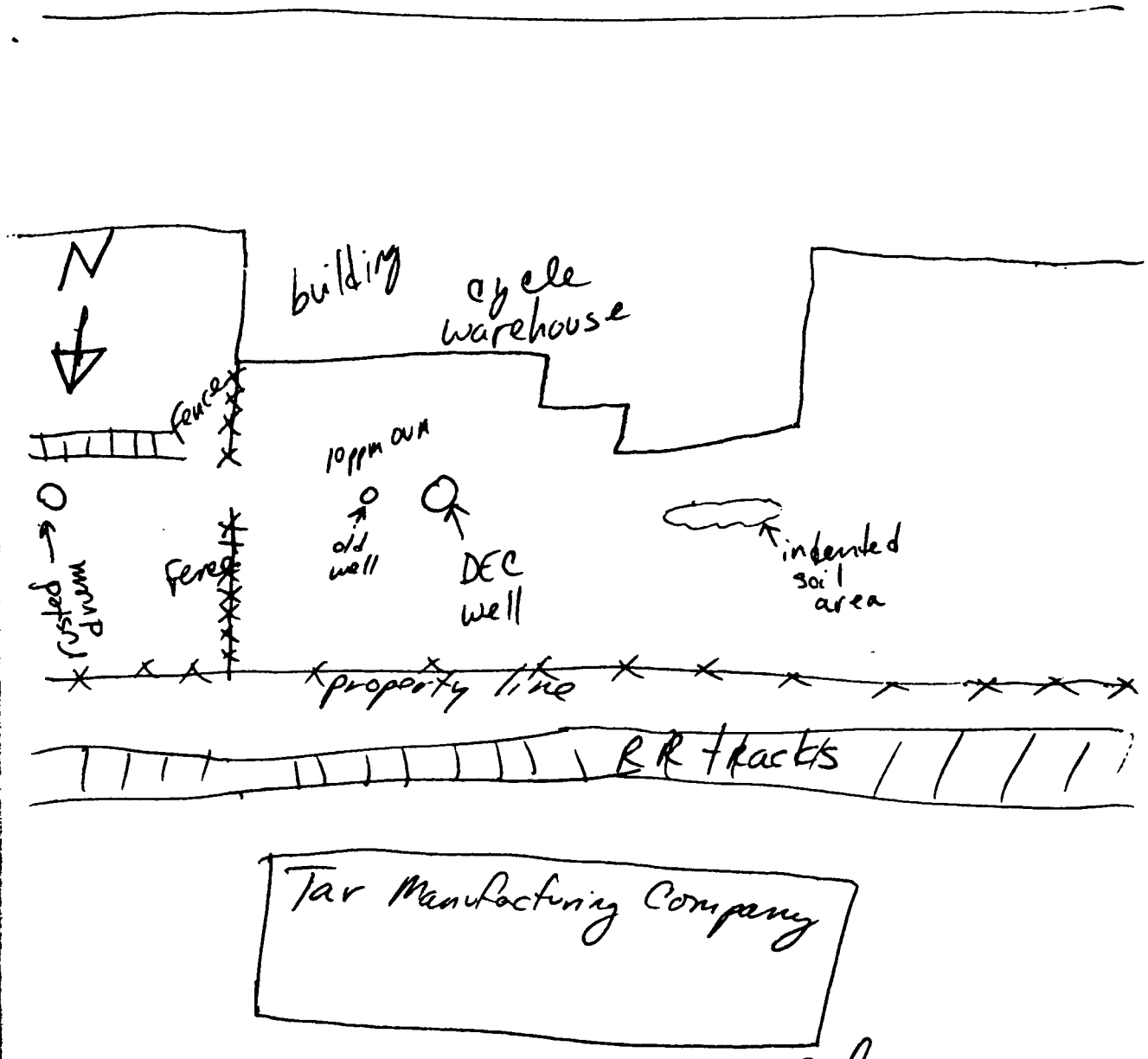
J Nucar 6/5/87

Alan Thompson 6/19/87



Al Cherigan 6/19/87

G. Lucas
6/5/87



J Duncan
6/5/87

Alan Cheregon 6/19/87

Alsy Mfg. 02-8705-10 6/5/87

1020 Mike Gentils heads east to rear 270 cycle warehouse where there is another DEC test well located. and an old well

1021 M. Gentils checks both wells for readings
~~no readings on either well~~
on the DEC test well there is a reading of 1ppm on the HNU

on the old well a reading of 6ppm on the HNU at the well head 4ppm on OVA
.2ppm in amient air
background is .2 ppm
may be due to tar plant approx 100' away.

1027 OVA pegged on one scale at small well
1 ppm on 10 scale
10ppm at well head

1031 B. Pedersen + M. Gentils head back to decon area
M. Gentils off air
J. Dantalks to B. Derosa about other side of building.

J. Duncan 6/5/87

Alan Sherman 6/19/87

Alsy Manufacturing #02-8705-10 8

1040 M-scope #19212 is checked for accurate measurements against a steel rule it is accurate

Hnu is not working properly because of moisure. Using OVA only.

1050 Start back on site Mr. DeRosa will show us to other side of building. using OVA only.

1051 M Gentil on air

walk behind building on Alsy Property near old ~~roa~~ rail road tracks

old rusted drum is found standing upright no reading on OVA

1055 M. Gentil takes a reading near a sanitary sewer no reading on OVA

1057 M. Gentil checks back bay near TCE tank no readings

J Duncan 6/5/87

Alan Cherpon 6/19/87

Alsy Manufacturing 02-8705-10 6/5/87

1100 M. Gentile checks ~~another~~ 2 cesspools which ~~is~~ are covered in the loading dock area

no readings on OVA

1107 We head around to the front of the building and to the area where the cyanide is stored

no reading on OVA

1110 M. Gentile off air we head back to the decon area
B. Dorosa leaves us

1130 HNu is working properly
B. Peterson, M. Gentile
on air

1135 M. Gentile gets ~~well~~ air to reading on first well, DEC well near cesspools.
water is 50' deep using M-scope

no readings on OVA or HNu

Alan J. Thompson 6/19/87 J. Peterson 6/5/87

Alby Manufacturing 02-8705-10 6/5/87 10

1135 picture taken DEC
of measuring 1st well
1P
1S
no readings on HNU, OVA

1143 M. Gentils + B. Pedersen
measure 2nd well (small
well between cesspools 2 + 3)

60' to water

Can't tell depth to bottom
of the well!

2P
2S

no readings on HNU, OVA

1150 3P view of 2 cesspools
3S and DEC well!

1151 depth of cesspool #3
was 20', no water
Can't tell if there is sediment
on the bottom or not. Supposedly
all the old cesspools have been
steam cleaned according to Burt Robbins.

[signature]
6/5/87

Alan Thompson 6/19/87

Alsy Manufacturing 02-8705-10 11
6/5/87

1155 B. Pedersen + M. Gentils
check wells behind
cycle warehouse
on DEC well
a reading of 40 ppm on OVA
and 20 ppm on HNU
were recorded
60 ft to water

1200 4P checking small
4S well near DEC well
60' depth of well
water ≈ 55'
8-13 ppm on HNU
4 ppm on OVA

~~1200~~ 1205 B. Pedersen + M. Gentils
off air

1210 B. Pedersen on air
to take Draeger tube
Cyanide reading on DEC well
no discoloration
5P 10 pumps
5S

[signature] 6/5/87

Alan Chesepan 6/19/87

Alsy Manufacturing 02-8705-10 12

6/5/87

1212 B. Pedersen uses Ethylbenzene Draeger Tube on same well

no discoloration

1215 B. Pedersen uses Toluene Draeger Tube on same well

6P picture of 3
6S Draegar Tubes

no discoloration

1220 7P view of back of
7S building where rusted drum + railroad tracks are located.

B. Pedersen off air
Team heads back to decon area

notice indented soil area in rear of building near wells
no discoloration of soil
it is just lower than the rest of the area

J. Duccar 6/5/87

Alan Thereson 6/19/87

Alsy Manufacturing 02-8705-10
6/5/87

1245 finish deconning equipment and loading the Truck

1250 enter main building to talk to Burt Robbins

1305 Burt Robbins meets me and takes me to his office to give me more information on the site

Surrey Corp. owner
6901 Jerecho Tnpk.
Syosset, NY
owns both building's property

1355 Left Site

J Duncan
6/5/87

Alan Thompson 6/9/87

Alsy Manufacturing 02-8705-10
6/16/87

weather: Sunny, Clear, 80°F and Rising

0702 NUS personnel arrives on site.

NUS personnel
J. Ducar J Ducar 6/16/87
R. Rice Randy Rice 6/16/87
D. DeBruijn Dan DeBruijn 6/16/87
P. Morton Peter S. Morton 6/16/87
B. Petersen Brian Petersen 6/16/87
S. Lencgyk Sue Lencgyk 6/16/87

0705 Dick Torey of NYDEC Albany is on site.

0708 Meet B. DeRosa of Alsy on site, he lets us on to the property around the back, north side of the building where we will set up decon.

0715 J. Ducar goes over past sampling by NYDEC at Alsy with D. Torey.

Alan Thompson 6/19/87 J Ducar 6/16/87

Alsy Manufacturing 02-8705-10
6/16/87

0745 P. Morton & D. DeBruyn
decon 3 barbers, 9 trowels
and 5 augers and dredge
decon procedure for barbers
1 - Alconox scrub
2 - tap water rinse
3 - acetone rinse
4 - DI H_2O rinse
5 - 10% HNO_3 rinse
6 - DI rinse
the rest of the instruments were
deconed using alconox & water wash
& water rinse.

SCBA #		SCBAs checked by B. Pedersen 6/16/87
D. DeBruyn	307475	
P. Morton	192039	
B. Pedersen	307186	

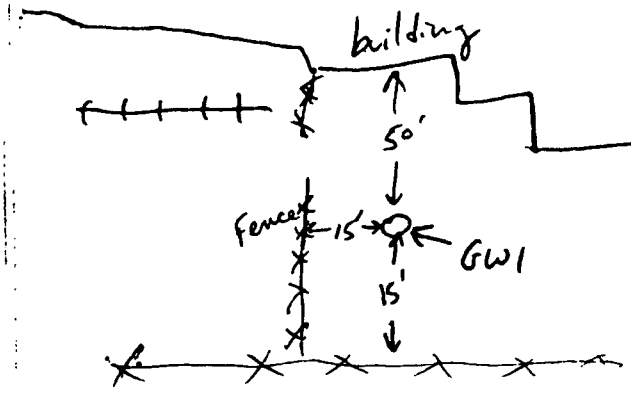
OVA	J	# 469759	Calibrated by S. Barber 6/11/87
HNu	K	# 469744	

Minirad # 469785

0750 S. Lenczyk leaves site
to obtain liquid replenishment

0752 M-scope is measured using
tape measure - good accurate

Alan Thompson 6/15/87 [illegible] 6/16/87



J Duane 6/16/89

Both wells were installed by Soil Mechanics of Long Island, according to D. Robbins.

Alan Cheropa 6/19/89

Alsy Manufacturing 02-8705-10
6/16/87 19

0806 B. Pedersen holds tailgate safety meeting

Photo back camera & sequence:

~~02~~ 8705-10 6/16/87 Time Sample #

0820 S. Lencyk comes back on site with Gatoraid + water

0830 ~~B. Pedersen~~ D. DeBruijn (PD) + P. Morton on air to open well GW-1, behind paint area of building
OVA 0 ppm
HNU 0 ppm

0839 P. Morton uses steel popper to get depth of well

depth to water: 60' 6" to top of outer casing
71' to bottom of well from top of casing

0840 Burt Robbins arrives on the site.

Alan Thompson 6/19/87 J. Duncan 6/16/87

Alsy Manufacturing 028705-10
6/16/87

0900 D. DeBruijn begins to bail the well on air
no readings on OVA or HNU
need 18 gals. for 3 volumes.

0902 D. DeBruijn + P. Morton off air
water is med. brown, a lot of sediment

0912 Readings observed
on OVA 30 ppm
HNU 15 ppm

0915 P. Morton + D. DeBruijn on air
P. Morton begins bailing well

0920 J. Ducar + D. Torey go back to decon area to get 2 more tanks of air

0939 P. Morton + D. DeBruijn off air for a break
Team heads back to decon area

Alan Berman 6/19/87 J. Ducar 6/16/87

Alsy Manufacturing 02-8705-10 6/16/87

1005 Team heads back to well to finish bailing the 3rd volume and start to sample.

1010 P. Morton on air begins purging the well by bailing
OVA 0 ppm
HNU 4 ppm

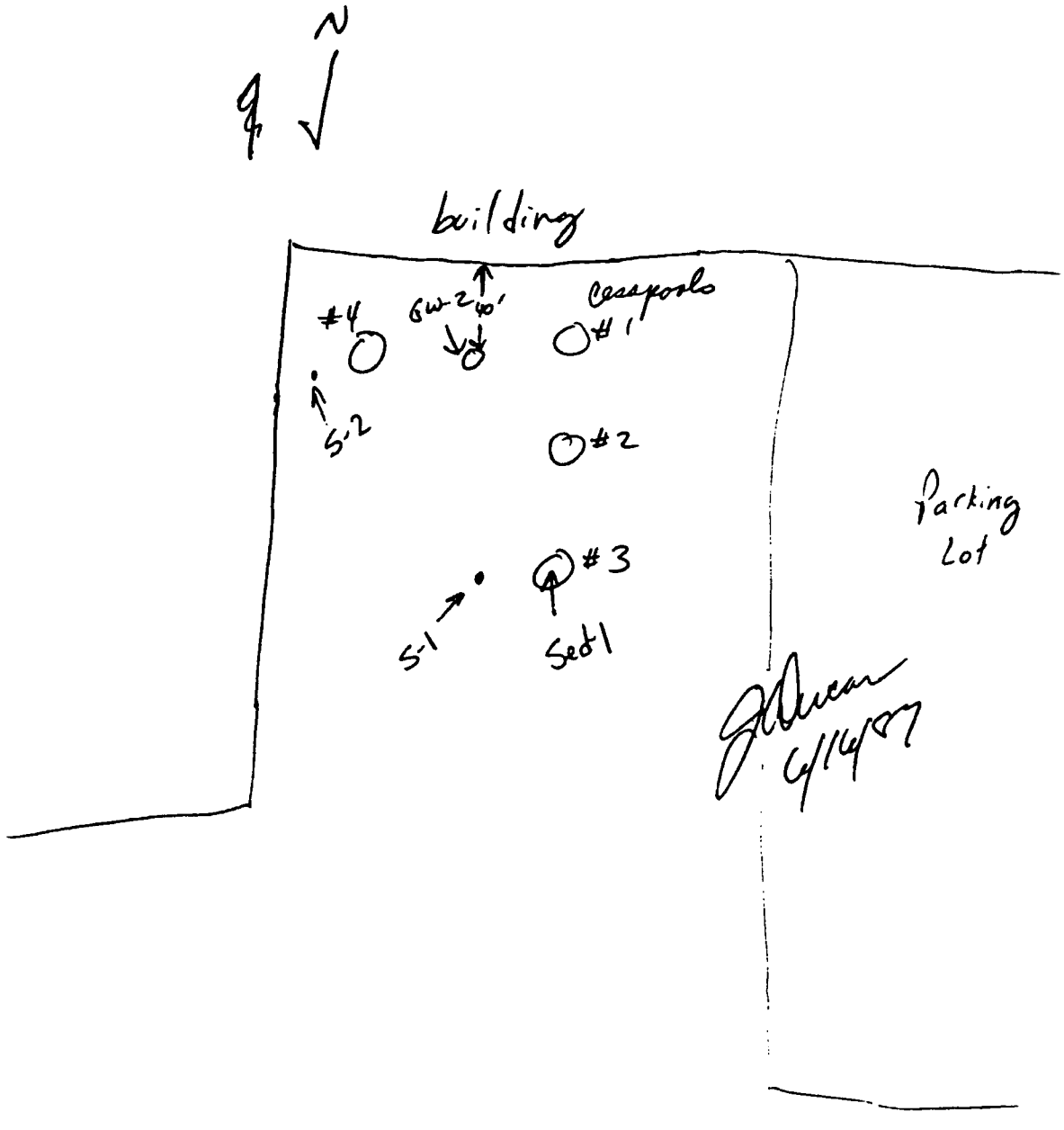
1015 D. DeBruijn begins to sample well on air

a matrix spike + matrix spike duplicate will be taken from this well

1P
1S

1030 Done sampling well
Sample + matrix taken
Morton + DeBruijn off air
we head back to decon area

Alan Cherepon 6/19/87 J Lucan 6/16/87



J Duncan 6/14/87

Alan Thereppon 9/87

Alsy Manufacturing 02-8705-10
6/16/87

1040 L. Rudd and L. Gneiding
arrive on site.

1106 0 MR/hr on Mini-Rad

M-scope was deconned
with Akonox + water wash
and rinsed with DI water

1110 D. DeBruijn + P. Morton
put on SCBA's
B. Pedersen is on back-up

1115 Team heads out to well
GW-2 near cesspool #1

1119 P. Morton + D. DeBruijn
on air
open well cap

60' to water from top of
the outer stick-up using M-scope

69' to bottom of well

1125 lower bailer down
well
no readings on OVA or Hnu

DeBruijn + Morton off air

Alan Cherepon 6/19/87 [signature] 6/16/87

Alsy Manufacturing 02-8705-10 23
6/16/87

1138 Team returns to well
D. DeBruijn begins to
purge well on Level D
due to no readings on the
air instruments.

need approx. 5½ bucket
fulls. 17.8 gallons for 3 volum
evacuated

1145 P. Morton purging well
using bailer on Level D
still no readings on OVA or HNU

1150 DeBruijn takes over and
bails
no readings on the Minirad

1157 Morton bails the well
no readings on OVA or HNU

1206 DeBruijn starts to bail
the well no readings

1214 P. Morton bails last
bucketfull

Allan Thompson 6/19/87 J. Duran 6/16/87

Alsy Manufacturing 02-8705-10 24
6/16/87

1225 P. Morton begins sampling GW-2
2P
2S

1233 Finish sampling GW-2
Head back to Decon area.

1303 Team walks around building to loading dock area where SW-1 + Sed 1 will be taken.

1312 D. DeBruyn + P. Morton on air to open manhole cover. The western most hole.

10 ppm HNu
8 ppm OVA
Approx. 20' to water

1320 Sampling SW-1 on air west pool in shipping area
3P
3S

Alan Thereson 6/19/87 J Duncan 6/16/87

Alsy Manufacturing 02-8705-20 6/16/87

1328 P. Morton drops dredge into pool, still on level B

2 ppm HNU
0 ppm OVA

very little to no sample retrieved
not enough for a sample to be taken.

1340 Return to decon area
crew takes a break
B. Pedersen goes out to get more liquid replenishment

1427 B. Pedersen arrives back on site
P. Morton + D. DeBruijn suit up in Tyvec. dredge deconned using Alconox water wash, water rinse acetone, DI rinse.

1452 DeBruijn starts to sample S-1, ~~near~~ EAST cesspool #3 on level C 3' ~~west~~ of using auger
Approx. 2 feet deep
area around cesspools are void of grass
4P
4S

1500 DeBruijn taking S-1

Alan Thorpe 6/9/87 J Duran 6/16/87

Alsy Manufacturing 02-8705-10 26
6/16/87

1502 Morton uses dredge to get a sediment sample out of cesspool #3 on level C

1515 5 S- Morton sampling Sed-1
5P light tan moist gravely sand from bottom of #3 cesspool, similar sand found on surface near hole.

1520 DeBruijn takes Soil Sample #2 3 ppm HNU in Hole
4 ft. ~~west~~ East to of cesspool #4 on level C
6S 1.5 ft. deep - 2 ft.
6P moist med. brown fine to med sand

1536 Morton uses dredge to sample cesspool #4 on level C
no sediment is attainable
no sample is taken

Alan Thompson 6/19/87 J. Duncan 6/16/87

Alsy Manufacturing 02-8705-10 27
6/16/87

1555 DeBruijn takes soil
sample S-3 auger sample
on level C Approx. 2' deep
8' to east of ~~ce~~ sanitary
cesspool behind building
(see map)

dark brown, fine sand
pebbles 0 ppm HNU

7S
7P

1605 DeBruijn starts to
sample S-4 near old
RR spur on level C, 1' deep
30' east from ~~en~~ west end of tracks
4' North of Tracks

green + purple coloration in some
of the soil
moist, fine light brown
1 ft deep

8P
8S

~~1610~~ 1610 P. Morton + B. Petersen open
cover of sanitary cesspool

Alan Uhrepor 6/19/87 J. Duncan 6/16/87

Alsy Manufacturing 02-8705-10 28
6/16/87

1625 P. Morton Samples
Sanitary Cesspool #3 on level C
eastern most behind building
5 ppm HNV on opening pit using dredge
Sed #2 no readings
on HNV after
a couple of
minutes to vent
9P
9S

1640 Team heads back to
decon area
begin packing and
decontaminating pailels, dredge, etc.

1720 Done cleaning up and
decontaminating
pack vehicles
Give B. Robbins names of
D. Messina and C. Petersen
D. Torrey leaves the site

1730 NUS FIT team
leaves the site
for Federal Express

Alan Cherepon 6/19/87 J. Duran 6/16/87

Alsy Manufacturing 02-8705-R29
6/16/87

1740 Drop off samples at Federal Express in Hicksville

Airbill # 4486830655 - org.
4486830644 - inorg.

org.: York Laboratories

inorg.: Spectrix Corp

Case # 7459

NYT7

	org	inorg
GW-1	BJ850	MBJ650
GW-2	BK264	MBK 532
SW-1	BK273	MBK 541
Sed-1	BK268	MBK 536
Sed-2	BK272	MBK 540
S-1	BK 270	MBK 538
S-2	BK 269	MBK 537
S-3	BK265	MBK 533
S-4	BK266	MBK 534
Blank-1	BK 271	MBK 539

Alan Thereson 6/19/87

[signature] 6/16/87

REPORT NO.: Y028-SIP
REV. NO.: 0

FINAL DRAFT
SITE INSPECTION PRIORITIZATION REPORT
ALSY MANUFACTURING
HICKSVILLE, NASSAU COUNTY, NEW YORK

VOLUME 2 OF 2

PREPARED UNDER

WORK ASSIGNMENT NO. 019-2JZZ
CONTRACT NO. 68-W9-0051

MARCH 11, 1992

UPDATED: OCTOBER 9, 1992

REFERENCE #2

Werbin
AKA
Trube

Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives

By O. L. FRANKE *and* N. E. McCLYMONDS

HYDROLOGY AND SOME EFFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

GEOLOGICAL SURVEY PROFESSIONAL PAPER 627-F

Prepared in cooperation with the New York State Department of Conservation, Division of Water Resources; the Nassau County Department of Public Works; the Suffolk County Board of Supervisors; and the Suffolk County Water Authority

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REFERENCE #3

LONG ISLAND WATER RESOURCES
BULLETIN 13

HYDROLOGIC AND WATER-QUALITY APPRAISAL OF SOUTHEAST NASSAU COUNTY, LONG ISLAND, NEW YORK

By
Henry F. H. Ku and Dennis J. Sulam

U.S. Department of the Interior
Geological Survey

Prepared by the
U.S. GEOLOGICAL SURVEY

in cooperation with the
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

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1979

Precip

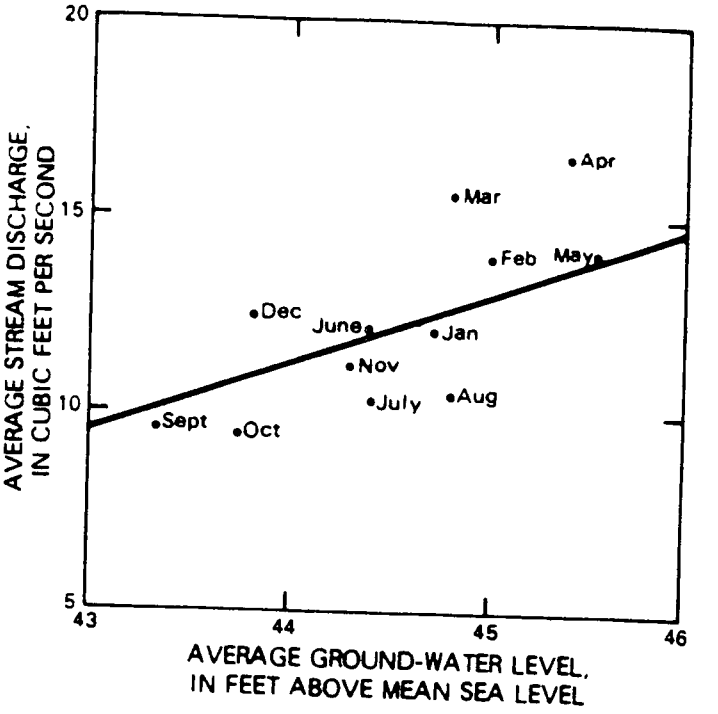


Figure 5.--Relation of discharge of selected streams in Sewer District 3 to water levels in nearby wells. (Data points represent monthly average during 1951-75.)

Precipitation

Precipitation is the sole source of natural fresh-water recharge on Long Island. During the winter, most precipitation on Long Island is caused by low-pressure systems that originate in the Gulf of Mexico and in the southwest part of the North Atlantic Ocean and move northeastward along the Atlantic Coast. During the summer, most precipitation is associated with thunderstorms, either local or initiated by the passage of cold fronts. A detailed study of the precipitation regime of Long Island is given in Miller and Frederick (1969).

The long-term average (1947 to 1975) annual precipitation at Freeport, Nassau County, is 40.93 in. (fig. 6). However, the amount of precipitation varies considerably from year to year. For example, annual precipitation since 1947 ranged from 24.56 in. in 1965 to 51.58 in. in 1975. A bar graph of annual precipitation at the Freeport gage is shown in figure 6.

Figure 7 shows the long-term annual precipitation distribution in the study area, as described by Miller and Frederick (1969). This map

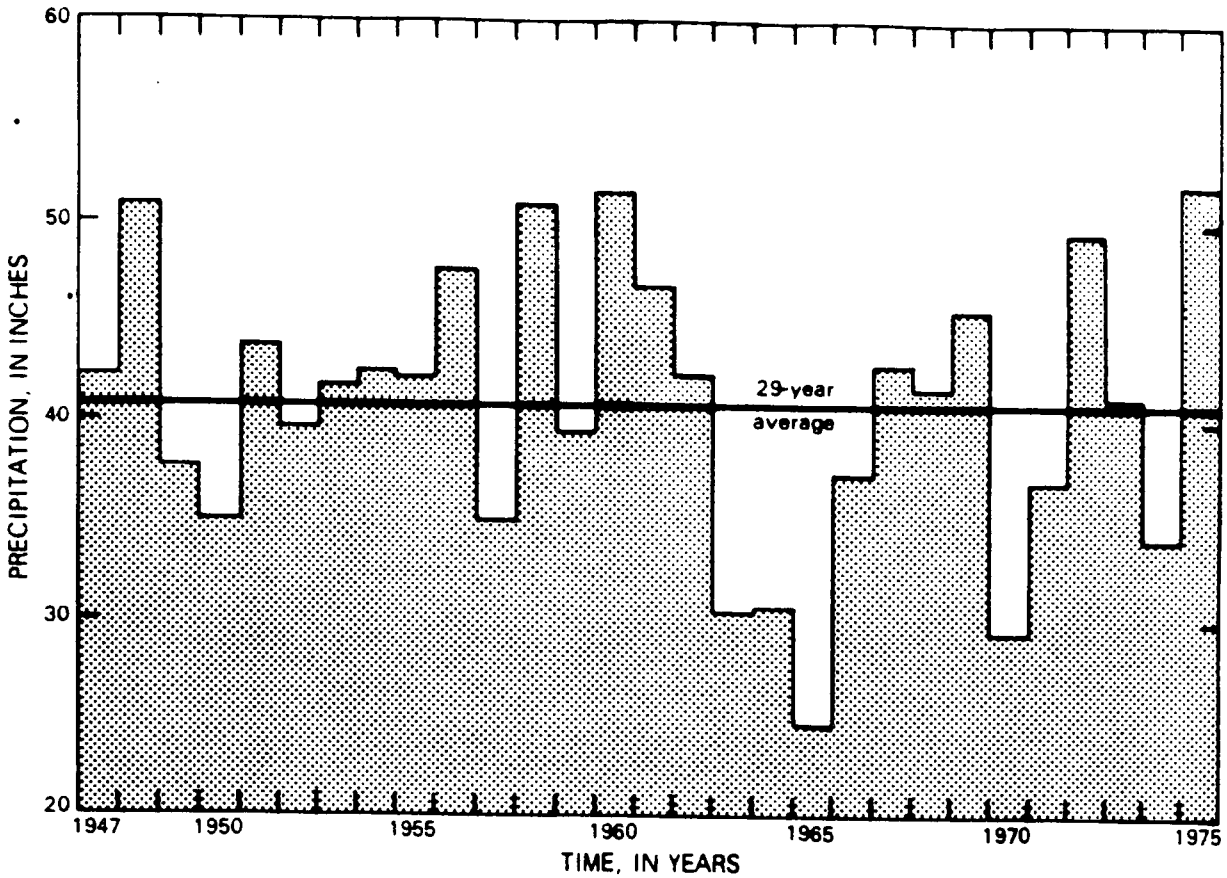


Figure 6.--Annual precipitation at Freeport, 1947-75.

represents a 15-year period of record, which is of sufficient length to provide precipitation averages that compare favorably with the average for the climatologic normal period of 30 years, in accordance with the standards of the World Meteorological Organization.

Twelve rain gages were operated in and around the study area during 1974-77 to determine the areal distribution of local precipitation. The data were used to prepare maps showing precipitation patterns during a cool season (October 1975 to March 1976), a warm season (April 1976 to September 1976), and a water year (October 1975 to September 1976). (See figs. 8A-8C, p. 14-16.) The report by Miller and Frederick (1969) was used as a guide in drawing the lines of equal precipitation.

Precipitation during water year 1976 was nearly equivalent to the average long-term precipitation measured at the Freeport gage, and the areal distribution was similar to the long-term pattern, as determined by Miller and Frederick (1969), except that a large amount was recorded at the Bellmore gage from April to September.

In general, precipitation increases from the south shore to the higher elevations at the center of Long Island.

GROUND WATER

Water-Level Changes

A network of shallow observation wells has been installed and maintained throughout Nassau County by the Nassau County Department of Public Works, Division of Sanitation and Water Supply, to monitor ground-water levels. These wells were used extensively during this study.

Ten well lines (locations shown in fig. 9), each consisting of four or five wells, were used to define water-table fluctuations in the study area. Hydrographs of these well lines are shown in figure 10. Well lines 1, 3, 5, 7, and 9 represent wells in which water-table altitudes were 50 feet or more above mean sea level; well lines 2, 4, 6, 8, and 10 represent wells in which water levels were less than 50 ft above mean sea level. The latter wells are near the south-shore bays and therefore fluctuate less than others in response to stress placed on water-levels because the bays act as a constant head boundary.

Between 1950 and 1962, average water levels in all wells in each well line were generally near or above the long-term average. However, from 1963 to 1967, water levels declined steadily. Most of the water-level declines resulted from below-average precipitation during the 1962-66 drought on Long Island (Cohen and others, 1969). After 1967, water levels began to recover and by 1975 were virtually at predrought levels.

Effects of sewerage on ground-water levels in Sewer District 2, directly west of the study area, were analyzed by Garber and Sulam (1976). Their study indicates that after the installation of sewers in 1953, water levels in Sewer District 2 declined in relation to water levels in Sewer District 3 and that declines in Sewer District 2 ranged from 5.1 ft to 23.7 ft at individual well-line locations (Garber and Sulam, 1976). Most of the water-level decline in Sewer District 2 was attributed to sewerage and ground-water withdrawals in adjacent Queens County. Because hydrogeologic conditions in both sewer districts are similar, water-level declines are also expected in Sewer District 3 after completion of hookups to the regional sewerage system.

Ku and others (1977), with the aid of an analog model, predicted that sewerage in Sewer District 3 would cause water-table declines and that the maximum decline would be directly south of the present ground-water divide (fig. 11). By 1995, after 20 years of sewer operation, this decline should cause the ground-water divide to shift northward. If the divide moves as expected, water in the area between the two locations will no longer flow north from the location of the present divide but will be reversed and flow south from the new divide.

The maximum decline from sewerage in the study area is predicted by analog-model simulation to be little more than 16 ft and to be concentrated in a small area directly south of the present ground-water divide. This applies both to the upper glacial and the Magothy aquifers. The predicted net decline of 16 ft agrees with measurements made by Franke (1968) and Garber and Sulam (1976) in Sewer District 2, west of the study area.

Public-Supply Wells

Pumpage

Pumpage from public-supply wells in Nassau County during 1975 was 170 Mgal/d; total pumpage that year in Sewer District 3 was approximately 53 Mgal/d. Table 6 summarizes pumpage in the water districts of Sewer District 3 by aquifer; figure 23 shows the distribution of public-supply pumpage in Sewer District 3 during 1975.

The increase in pumpage from public-supply wells by water districts in Sewer District 3 during 1950-76 is summarized in table 7. The pattern of the increases in ground-water withdrawals is illustrated by pumpage totals of

Table 6.--Summary of pumpage by aquifer from public-supply wells in Sewer District 3, Nassau County, 1975

[Locations of water districts are shown in figure 23]

Water District	Population	Pumpage (in thousands of gallons)			
		Upper glacial	Magothy	Lloyd	Total
New York Water Service	171,080	0	4,495,808	0	4,495,808
Massapequa	51,000	0	1,598,496	0	1,598,496
Farmingdale	9,925	0	347,644	0	347,644
South Farmingdale	55,000	152,603	1,159,589	0	1,312,192
East Meadow	50,000	0	1,694,502	0	1,694,502
Levittown	50,000	0	1,330,975	0	1,330,975
Bethpage	32,950	0	1,033,280	0	1,033,280
Hicksville	60,000	0	2,022,257	0	2,022,257
Plainview	46,000	0	1,553,144	0	1,553,144
Jericho	58,100	0	2,754,043	0	2,754,043
Westbury	18,000	0	758,172	93,345	851,517
Carle Place	10,000	0	438,283	0	438,283
TOTAL					19,432,141 (53.2 Mgal/d)

New York Water Service (fig. 23), which is the largest supplier in the study area. Between 1950 and 1960, pumpage increased by 5.93 Mgal/d; pumpage between 1960 and 1970 increased by 3.86 Mgal/d; but pumpage since 1970 has increased by only 1.12 Mgal/d. Throughout Sewer District 3, pumpage increased from 10 Mgal/d in 1950 to 53 Mgal/d in 1975, about a fivefold increase.

In 1975, water use ranged from 0.21 (Mgal/d)/mi^2 in the Jericho Water District to 0.91 (Mgal/d)/mi^2 in the Carle Place Water District. Average water use among the districts was 0.5 (Mgal/d)/mi^2. When sewer installations are completed, most of the water use will be consumptive because approximately 85 percent of the pumped water will be routed to sewer lines. The rest will be used for lawn sprinkling and other outdoor use, and part of it will infiltrate back to the water table. By 1985, water use in Sewer District 3 is expected to range from 0.21 (Mgal/d)/mi^2 in the Jericho Water District to 1.69 (Mgal/d)/mi^2 in the Westbury Water District. These estimates are derived from pumpage figures given in Kimmel and others (1977). Average water use by 1985 is expected to be 0.94 (Mgal/d)/mi^2.

Water Loss

Greeley and Hansen (1971, p. 84) estimated water loss (including sewage disposal, evapotranspiration from sprinkling, and consumptive losses) in each water district for 1990. If specific yield of 20 percent is assumed for the water-table aquifer in Sewer District 3, the average water-level decline in response to the estimated hydrologic losses would range from 3.1 ft to 17 ft. Water-level declines in re onse to losses from storage are predicted to be slightly greater than the 3-ft to 16-ft decline predicted by the analog-model studies of Ku and others (1977), which take into account subsurface outflow from district to district, streamflow decreases, and lower population predictions.

Water Quality

The quality of the public-water supply of Nassau County is monitored by the Nassau County Department of Health, as well as by the various water suppliers. Records for 11 public-supply wells in the area having extensive water-quality data and suitable areal distribution were used to compute the trend of nitrate, chloride, and total solids with time. Trend lines were fitted through data points by the least-square method of analysis. Figure 24 shows that concentrations of nitrate (as N), chloride, and total solids increased from the 1950's to 1973 at the 11 selected wells. Smith and Baier (1969) state that water from 24 percent of the public-supply wells in Nassau County had increasing nitrate trends in 1969 and that the nitrate (as N) concentration of water from 16 percent of the public-supply well will exceed the drinking-water limit of 10 mg/L within 50 years. Effluent from cesspools is cited as the primary source of nitrate in the Nassau County Water Supply.

Sections showing vertical distribution of nitrate, chloride, and total-solids concentrations indicate that these constituents have moved downward into the aquifers in a range from tens of feet to a few hundred feet from the 1950's to 1976 (Ku and Sulam, 1976).

Perlmutter and Koch (1972) have shown that most Magothy aquifer wells whose water has a significantly increasing nitrate concentration lie in a central band running east-west across Nassau County. This is because under natural conditions the vertical (downward) movement of water in the vicinity of the major ground-water divide is more rapid than in other parts of the study area. As a result, elevated concentrations of nitrate and other constituents of ground water tend to lie at greater depths near the divide than elsewhere.

The rate of vertical movement of water near the ground-water divide is estimated to be 5 to 25 ft per year and to average 10 ft per year (Perlmutter and Koch, 1972). At this rate, water would move 500 ft from the water table to the base of the Magothy aquifer in about 50 years. Using a steady-state electric-analog model, Franke and Cohen (1972) estimated that it would take 100 years for water to move from the water table to the base of the Magothy aquifer (500 ft) along the Nassau-Suffolk County boundary at the ground-water divide. However, the rates of vertical movement would be accelerated by pumping.

In areas of Hicksville and Levittown, large-scale farming and associated use of fertilizers since 1920 (Perlmutter and Koch, 1972) has undoubtedly contributed nitrate to the ground-water system. More recently, fertilizers applied to lawns and gardens have become sources of nitrate in ground water.

The lowest concentrations of nitrate, chloride, and total solids in the Magothy aquifer are south of a line running from North Merrick to South Farmingdale (fig. 1).

Median nitrate (as N) concentrations of untreated water from all public-supply wells in the water districts and villages in Sewer District 3 ranged from 0.02 mg/L to 4.0 mg/L (table 8). The pH of untreated public-supply water ranged from 5.1 to 6.7. Specific conductance ranged from 35 to 120 μmho/cm, which indicates that the water has a low mineral content.

Iron and manganese enter ground water as a result of bacterial action or the solvent action of water on minerals or manmade products containing these elements. Iron is ubiquitous in ground water on Long Island. However, manganese in ground water is usually attributed to bacterial action at shallow depths. Manganese was virtually absent in public-supply wells in Sewer District 3 (table 8), whereas iron concentrations ranged from 0 to 0.49 mg/L. Pluhowski and Kantrowitz (1964) found that iron in excess of 0.3 mg/L with an absence of manganese can occur in all aquifers underlying Long Island and is probably the result of the solution of iron-bearing minerals or iron oxide within the aquifer.

Median hardness of water (as $CaCO_3$) differs greatly from well to well and ranged from 6 to 32 mg/L during the 3-year study. In water districts where hardness (as $CaCO_3$) was less than 10 mg/L, ion exchange resulting from water percolating through clay lenses in the aquifer was the most likely contributing factor (Pluhowski and Kantrowitz, 1964, p. 56).

REFERENCE #4

ispersal of Plating Wastes and ewage Contaminants in round Water and Surface Water, outh Farmingdale-Massapequa rea, Nassau County, ew York

M. PERLMUTTER *and* MAXIM LIEBER

TRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

OLOGICAL SURVEY WATER-SUPPLY PAPER 15[illegible]

epared in cooperation with the
ssau County Department of Public
orks and the Nassau County
epartment of Health

TED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 19[illegible]

in Massapequa Creek decreased from about 3 mg/l of chromium and 0.1 mg/l cadmium at the headwaters of the stream to zero near the mouth.

No public-supply wells have been contaminated by metal-plating wastes, and none are in the predicted path of the plume except for a part of New York City's supplementary ground-water system, composed of wells and infiltration galleries, about 2.5 miles downgradient from the plume. This system which is operated infrequently (mostly during drought periods) is in no immediate danger of contamination by plating wastes owing to the slow rate of movement and dilution of the contaminated water.

Although the physical and hydraulic properties of the water-bearing deposits do not completely satisfy the basic assumptions of classical dispersion concepts and formulas, comparison of field observations of the spread of the heavy metals with theoretical estimates was useful in evaluating the role of various dispersion mechanisms. The data suggest that the natural velocity and direction of the ground-water movement account for most of the longitudinal spread, and the pattern and rate of injection of the plating wastes and the heterogeneity of the deposits account for most of the lateral spread of the contaminants. The vertical extent of the contaminants is controlled chiefly by the head relations at and near the disposal basins, the vertical permeability of the beds, and the natural regional flow pattern.

The detergent constituent alkybenzenesulfonate, referred to as MBAS (methylene blue active substance) in this report, also was investigated. MBAS may cause foaming of water locally, but it is not toxic at the low concentrations determined in the report area. Concentrations of MBAS were greatest in the upper 20 feet of the upper glacial aquifer, where they ranged from less than 0.[illegible] to about 5 mg/l at most test wells. Traces of MBAS were found as deep as [illegible] feet below the water table near the bottom of the upper glacial aquifer, but no evidence was found of widespread downward seepage of this contaminant into the underlying Magothy aquifer. Concentrations of MBAS in Massapequa Creek ranged from a few tenths of 1 mg/l to as high as 1.7 mg/l.

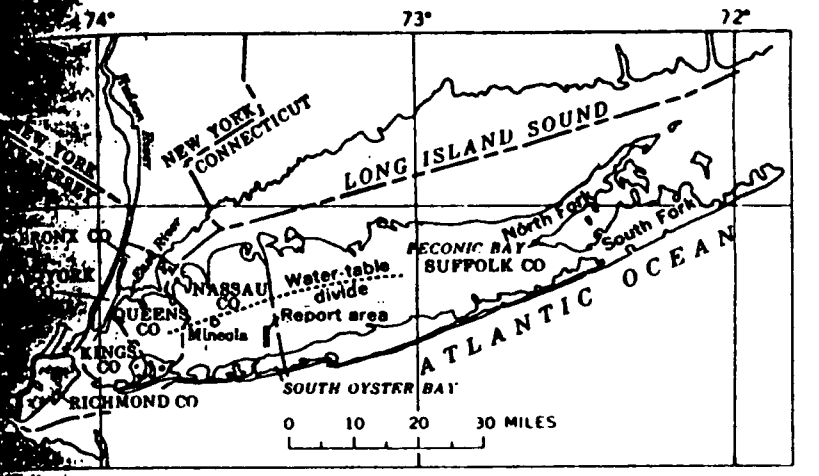
Public sewers now under construction 1968 in southeastern Nassau County will help reduce contamination of the upper glacial aquifer, but some contaminants such as nitrate, MBAS, and heavy metals probably will remain in the water for many years after sewering is completed.

INTRODUCTION

PURPOSE AND SCOPE OF INVESTIGATION

Ground water, derived from precipitation on Long Island, is the sole source of supply for nearly 1.5 million people and several thousand commercial establishments and light industries in Nassau County (fig. 1). In 1966, pumpage for all uses averaged about 215 mgd (million gallons per day).

Since the 1940's, construction of numerous one-family homes and some light industrial plants in parts of Nassau County have resulted in increasing contamination of the upper part of the ground-water reservoir, both by seepage of effluent from cesspools and septic-tank



Location of the area in Nassau County investigated for plating-waste and detergent contamination.

[illegible]ons and by industrial wastes discharged accidentally or intentionally into the ground water.

[illegible]hough the southwestern part of the county was largely sewered [illegible]964, residual contamination in the shallow ground water in the [illegible]red area and continued contamination of the ground water in the [illegible]wered northern and eastern parts of the county constitute a significant limitation on the use of a major shallow aquifer as a source [illegible]water for public supply. As a result of actual or potential contamination, most public-supply wells tapping this shallow aquifer [illegible]ve been abandoned, or withdrawals from them have been substantially reduced. Furthermore, this contamination, if unchecked, [illegible]y represent a long-term threat to the future availability of water of [illegible]table quality from an underlying major artesian water-bearing unit, [illegible] Magothy aquifer, that is in hydraulic continuity with the shallow [illegible]uifer. The Magothy aquifer is the chief source of water for public [illegible]pply in Nassau County.

[illegible]his report is based chiefly on the results of the latest of a series of [illegible]cial investigations, begun in 1949, of contamination of shallow [illegible]ound water in southeastern Nassau County. Most of the new data [illegible]esented in this report were collected between 1962 and 1964, and a [illegible] additional samples were collected from 1965 to 1968. The two [illegible]ncipal heavy-metal contaminants investigated were cadmium and [illegible]avalent chromium contained in metal-plating waste fluids which [illegible]ped down to the ground water from a cluster of disposal basins. [illegible]ntamination from detergent residues that have seeped down to the

Geological Survey; former Commissioner E. F. Gibbons, Nassau County Department of Public Works; and Commissioner J. H. Kinnaman, Nassau County Department of Health. The report was completed under the supervision of G. G. Parker, former district chief, New York District, and B. L. Foxworthy, former hydrologist-in-charge, Mineola, Long Island, N.Y.

HYDROLOGIC SYSTEM

An understanding of those elements of the hydrologic system that control the occurrence, movement, and chemical quality of the water is essential to an appraisal of water-contamination problems in the area. The part of the hydrologic system that is of principal concern in this investigation is the ground-water reservoir, which is the source of all the fresh water used in Nassau County. The ground-water reservoir in the South Farmingdale area consists of about 1,300 feet of saturated unconsolidated deposits resting on crystalline bedrock (Suter and others, 1949, pl. 8); however, intensive study of hydrologic conditions was confined chiefly to the upper 100 feet of the reservoir, which is most susceptible to contamination.

Figure 2 is a schematic representation of the upper part of the

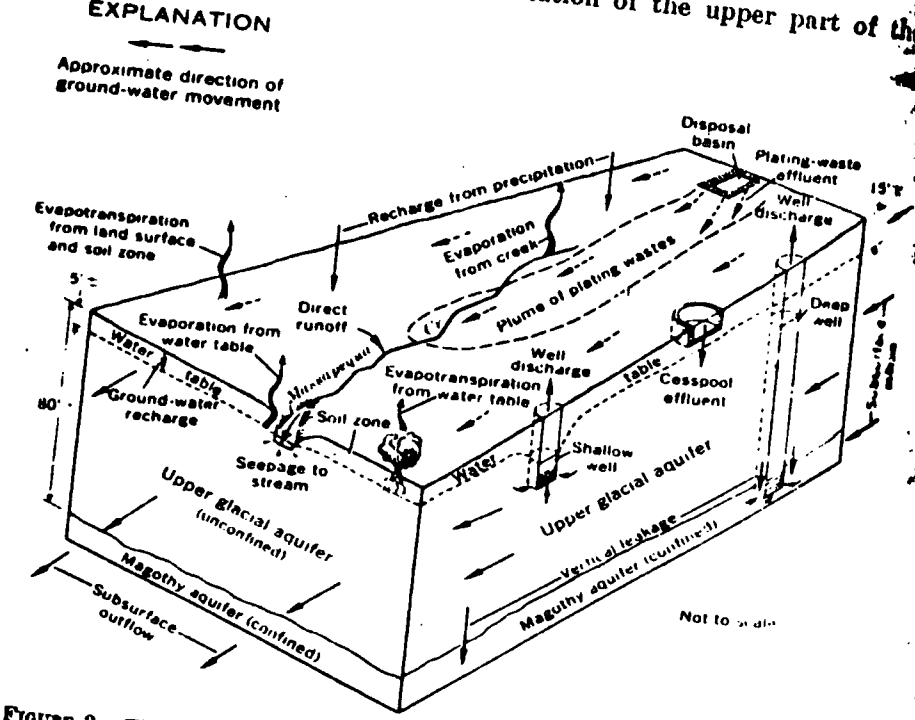


FIGURE 2.—The hydrologic system in the South Farmingdale-Massapequa area.

water reservoir and of the other pertinent elements of the logic system in the report area. The upper part of the reservoir of two major hydrogeologic units: (1) The upper glacial fer, which corresponds with the geologic unit known as the Pleistocene deposits, and (2) the Magothy aquifer, which includes the Magothy Formation and younger undifferentiated formations of Late Cretaceous age (Perlmutter and Todd, 1965).

Water enters the ground-water reservoir by direct infiltration of cipitation, by lateral subsurface inflow, and by artificial recharge. top of the zone of saturation in the unconfined upper glacial aquifer called the water table (fig. 2). The underlying Magothy aquifer tains water under artesian pressure, and the heads in that aquifer nge from slightly lower than the water table at the northern end of overall report area, to slightly higher at the southern end. Consequently, under natural conditions the upper glacial aquifer locally loses e water to and gains some water from the Magothy aquifer. The ntity of water interchanged naturally between the aquifers in the port area is presently small. Ground water is discharged from the a by seepage to Massapequa Creek, by subsurface outflow, by potranspiration, and by loss of part of the water pumped from ells due to consumptive use.

As water moves through the report area, its dissolved solids content creases mainly because of contributions from plating wastes and sehold sewage. Airborne contaminants dissolved in precipitation at falls on the area, fertilizer chemicals carried down to the water le by the infiltrating water, and solution of some mineral matter from the aquifer materials also contribute some dissolved substances to the ground water.

WATER-BEARING UNITS

The upper glacial aquifer extends from the water table, at depths of about 0 to 15 feet below land surface, to the top of the Magothy aquifer, at depths of about 80 to 140 feet below land surface (fig. 2 and pl. 2). This aquifer consists chiefly of beds and lenses of fine to coarse sand and gravel. In some parts of the aquifer, thin lenses and beds of fine to medium sand, and less commonly of silt, are interbedded with the coarser beds, particularly in the lower part of the unit.

Table 1 compares the physical properties of representative samples of the water-bearing units, South Farmingdale area. Curves of particle-size analyses of the two most common lithologic types are shown in figure 3. These curves show that the texture of the samples from the 42-foot depth ranges from fine sand to medium gravel and contains

[illegible] in the upper glacial aquifer consist chiefly of [illegible]-stained quartz grains; about 10 to 20 percent miscellaneous [illegible] minerals, including biotite, chlorite, hornblende, and limonite, and grains of granite, schist, gneiss, and other rocks. Gravel-size [illegible] are composed of quartz and various igneous and metamorphic [illegible].

[illegible] Records of a few scattered borings (wells 77B and 80, pl. 2) suggest that in places a greenish-gray silty and sandy clay about 8 to 10 feet thick intervenes between the lower part of the upper glacial aquifer and the underlying Magothy aquifer. This clay seems to underlie part of the valley of Massapequa Creek and probably extends at least as far north as the vicinity of Plitt Avenue (pl. 1*D*), but its continuity and lateral extent are unknown. The washed residue from a sample of the clay collected at a depth of 75 feet below the land surface at well 77B consists chiefly of quartz, an abundance of brown and black biotite and chlorite, a trace of glauconite, some brown plant material, and a few foraminifera of Pleistocene age. The occurrence and character of this marine clay suggests that it may be a northerly extension of the "20-foot" clay (Perlmutter and Geraghty, 1963, p. 36–37 and fig. 7) or possibly of the Gardiners clay (Suter and others, 1949, p. 22–24 and pl. 21).

The top of the underlying Magothy aquifer [pl. 2] is an irregular ancient erosional surface, which is usually indicated by the occurrence of beds of gray fine sand and clay. The Magothy aquifer is about 700 feet thick in the report area and is underlain by a confining unit known as the Raritan clay. The grain size, sorting, and texture of the beds in the Magothy aquifer vary both vertically and horizontally. The predominant grain size is fine sand, but thin beds and lenses of silt and clay as well as mixtures of all three types are common. Beds of coarse sand and gravel are generally found in the lowermost part of the aquifer only. A cumulative curve of a grain-size analysis of a typical sample of fine-grained sediment from the Magothy aquifer near the contact with the overlying glacial deposits is shown in figure 3, and selected physical properties are given in table 1. The poor sorting of the sample is indicated by the high uniformity coefficient. Other parts of the Magothy aquifer beneath the report area are poorly to moderately well sorted.

The average coefficient of permeability of the Magothy aquifer in the horizontal direction is estimated to be 500 gpd per sq ft. [illegible] the average permeability in the vertical direction is much lower, possibly less than 10 percent of that in the horizontal direction, owing to lenses and beds of silt and clay in the aquifer. Sandy beds of the Magothy aquifer consist almost entirely of quartz and have only a trace of

[illegible]y minerals and muscovite (white mica); silty beds consist chiefly [illegible]uartz, muscovite, and a small percentage of heavy minerals; and [illegible]ayey beds consist chiefly of kaolinite (a clay mineral) and muscovite. [illegible]rticles and thin layers of lignite (low-grade, brownish-black coal) [illegible]d marcasite (iron sulphide) are abundant in the deposits.

The cation-exchange capacities of one sand and one clay sample [illegible]rom the Magothy aquifer are given in table 2. The samples tested have [illegible]elatively low ion-exchange capacity, although the clay sample has [illegible] ion-exchange capacity about 40 times greater than that of the [illegible]nd. These results are not necessarily typical of the aquifer as a [illegible]hole, owing to the small volume tested.

TABLE 2.—*Cation-exchange capacity of the Magothy aquifer*

[Analyses by U.S. Geological Survey. WRC well number from New York State Water Resources Commission]

Well		Depth of sample below land surface (feet)	Description	Cation-exchange capacity (meq. per 100 g)
[illegible]ield No.	WRC No.			
[illegible]------	N7543	119–120	Gray lignitic clay and silt------	8.5
[illegible]------	N7545	93–97	Gray, fine to medium sand and trace of silt.	.2

[illegible] ROUTING OF WATER THROUGH THE UPPER GLACIAL AQUIFER

[illegible] An understanding of the patterns, rates, and quantities of water [illegible]moving in different parts of the hydrologic system is useful in evalu[illegible]ting the fate of contaminants entering the system. This section deals [illegible]hiefly with the elements of the water balance in the unconfined upper [illegible]glacial aquifer which contains the contaminated water described in [illegible]later sections. The hydrologic system in the report area (pl. 1) is be[illegible]lieved to be in approximate dynamic equilibrium—that is, over the [illegible]long term, the ground-water reservoir in the report area is gaining and [illegible]losing water in about equal quantities and shows no significant net [illegible]hange in the amount of water in storage.

INFLOW

Water enters the report area from both natural and artificial [illegible]ources. The two natural sources that provide most of the recharge [illegible]are precipitation and subsurface inflow (fig. 2). The ground water [illegible]reservoir is recharged artificially, largely by infiltration of domestic [illegible]and industrial liquid wastes from cesspools, seepage fields, and dis[illegible]posal basins.

[illegible] Precipitation on the principal study area averages about 45 inches [illegible]per year, which is equivalent to an average of about 2 mgd per sq mi

although concentrations greater than the recommended limit of 0.5 mg/l were restricted mainly to about the upper 20 feet of the aquifer.

The effect of detergents on plants was studied at the New York State University Agricultural and Technical Institute at Farmingdale, Long Island, by Bing and Bradley (1964), who showed that the application of water containing concentrations of the surfactant ABS as high as 200 mg/l to several types of flowering plants and radishes resulted in no visible adverse effects on their growth. The investigators concluded that the low concentrations of ABS normally found in ground water are probably not harmful to most plants, particularly those grown in well-fertilized soil.

Because of the wide distribution of MBAS and other sewage constituents in the upper glacial aquifer, it presently might not be desirable to construct shallow public-supply wells in the report area. Nearly all the wells supplying water for public use in the report area, however, tap deep zones in the Magothy aquifer which generally yields water of excellent quality.

The only shallow public-supply installations in the overall report area that showed significant MBAS contamination were New York City's infiltration gallery and well field at Massapequa (pl. 1). Samples of water from the Massapequa infiltration gallery, which taps the upper glacial aquifer, contained 0.9 to 1.7 mg/l of MBAS in 1965. The character of the ground water available for inflow into the gallery was indicated by the results of the analyses of samples of water pumped at different depths from a shallow well driven at Brooklyn Avenue and Parkside Boulevard, a short distance north of the gallery (table 9). Nearly all the water contained excessive concentrations of MBAS, and one sample, at a depth of 27 feet, had a nitrate concentration which was only a few milligrams per liter below the recommended limit of 45 mg/l for drinking water.

A sample of water from the Massapequa well field (table 5) contained about 0.04 mg/l of MBAS in 1965. The water probably represented a composite sample from wells tapping both the upper glacial

TABLE 9.—*Chemical analyses of water from well N7950, Massapequa, N.Y.*

[Analyses by the Nassau County Department of Health. Date sampled, October 1, 1965. [illegible] about 10 feet]

Depth of sample (feet)	Chloride (mg/l)	Nitrate as NO_3 (mg/l)	MBAS (mg/l)
12.5	55	23	0.02
17.5	32	----	1.5
22.5	29	25	1.5
27.5	23	42	1.0
32.5	18	36	1.2

d the Magothy aquifers. Presumably the MBAS content was largely not entirely from the upper glacial aquifer.

No evidence of detergent contamination was found in the water rom the middle and lower zones of the Magothy aquifer in the report rea. As noted previously (see "Chemical quality of the inflowing ater"), however, one public supply well, N4042, screened in the pper part of the Magothy aquifer showed evidence of some MBAS ontamination presumably of local origin.

The general lack of contamination in the Magothy aquifer in the eport area was attributed to three factors: (1) The natural flow attern of most of the contaminated water in the upper glacial aquifer as nearly horizontal, consequently, most of the contaminated water lows laterally through the upper glacial aquifer to areas of discharge uch as streams and bays; (2) the heads in the Magothy aquifer at he southern end of the overall report area generally were slightly igher than the water table (Perlmutter and Geraghty, 1963, pl. 7), herefore little or no downward movement of MBAS from the upper lacial aquifer could occur except possibly in the immediate vicinity f heavily pumped wells; and (3) lenses of silt and clay in the agothy aquifer have low permeabilities, but the lenses are not extenve enough to prevent some downward movement of MBAS and ssociated contaminants such as nitrate and chloride.

Long-term intensive pumping of the Magothy aquifer without some ounter measures such as artificial recharge could result ultimately in he development of sizable and extensive declines of artesian presures, which might ultimately induce downward leakage of significant uantities of contaminated water from the shallow aquifer. Such downward movement on a large scale, however, was not an imminent danger in the report area at the time of this investigation.

Slow deterioration of the chemical quality of the water in the upper glacial aquifer will continue until cesspools and similar waste-disposal ystems have been eliminated by the construction and use of public sewers. Even after sewer construction, a period of many years may lapse before the major contaminants are substantially flushed out of the upper glacial aquifer by natural recharge, according to a preliminary study of ground water in the sewered area of southwestern Nassau County by the senior author (investigation in progress, 1969).

SUMMARY AND CONCLUSIONS

The uppermost aquifer in the South Farmingdale-Massapequa area onsists chiefly of permeable deposits of sand and gravel having satuated thicknesses ranging from 60 to 140 feet. These deposits constitute the unconfined upper glacial aquifer, a major, but largely untapped,

water-bearing unit. Beneath the upper glacial aquifer are less permeable lenticular deposits of fine sand, silt, clay, and some gravel of Late Cretaceous age, having a total thickness of about 700 feet. These deposits contain water under confined, or artesian, conditions and comprise the Magothy aquifer, the principal water-bearing unit in the area.

Precipitation and subsurface inflow are the chief sources of natural recharge. Artificial recharge consisting of seepage from industrial disposal basins and domestic cesspools was the chief source of plating-waste and detergent contaminants in the ground water and in Massapequa Creek, whose flow is sustained mainly by seepage from the upper glacial aquifer. Water for public supply is provided generally by deep wells which tap the Magothy aquifer at depths that are presently free of contamination.

Percolation of partly treated metal-plating solutions into the upper glacial aquifer has produced a plume of contaminated ground water, whose changes in dimensions and in hexavalent chromium and cadmium content were monitored by test drilling and sampling mainly between 1949 and 1964. The plume is elongating very slowly downgradient, in the direction of the regional ground-water flow, and has moved beneath the west bank of Massapequa Creek. In 1962, the plume was about 4,300 feet long, as much as 1,000 feet wide, and from a few feet to about 70 feet thick. Maximum concentrations of chromium determined during successive investigations ranged from about 40 mg/l in 1949 to about 10 mg/l in 1962. Cadmium concentrations ranged from 0.01 to 10 mg/l, but in most places, they were less than 1 mg/l. Maximum observed concentrations of cadmium and chromium in Massapequa Creek were 0.1 and 2.9 mg/l, respectively. Concentrations of both cadmium and hexavalent chromium in most of the plume and in part of Massapequa Creek exceed the limits of 0.01 and 0.05 mg/l, respectively, recommended in the drinking-water standards of the U.S. Public Health Service.

Theoretical dispersion formulas were inadequate to explain the wide dispersal of the heavy-metal ions. The pattern and rate of injection of the plating-waste effluent, the heterogeneity of the beds and lenses, and the resultant distortion of the flow paths of the ground water, probably account for most of the longitudinal and lateral spread of the plume of plating wastes.

Another major contaminant, MBAS, consisting chiefly of ABS (alkylbenzenesulfonate), a surfactant contained in household detergents, was found in at least trace quantities in the upper three-fourths of the upper glacial aquifer. The highest concentrations of MBAS, generally 1 to 5 mg/l, were found in about the upper 20 feet of the

aquifer. Concentrations of MBAS in Massapequa Creek ranged from about 0.5 to 2.0 mg/l. These low concentrations of MBAS reportedly are not toxic, but they may cause foaming locally.

The principal conclusions of this report are:

1. A substantial plume of water contaminated by plating wastes occupies part of the upper glacial aquifer at South Farmingdale. Although the concentrations of the contaminants have been reduced since 1949, the residual concentrations greatly exceed the U.S. Public Health Service standards for drinking water.
2. No public-supply wells in the report area were contaminated by metal-plating wastes nor is such contamination imminent. The only public-supply installations in the direct path of the plume are New York City's well field and infiltration gallery at Massapequa (part of the Ridgewood system), about 2.5 miles south of the plume. Theoretically, at the present rate of movement, it would take about 30 years for the plume to reach the gallery, but the contaminated water may never reach that point owing to dilution of the wastes as they move downgradient.
3. Plating-waste contaminants in Massapequa Creek were diluted below concentrations detectable by standard methods before they reached the vicinity of the Ridgewood system at Massapequa.
4. Most of the water in the upper glacial aquifer in the overall report area was not entirely suitable for public-supply use, owing to detergent contamination, but it may be useable if diluted with uncontaminated water from other sources.
5. No evidence was obtained of downward movement of the plating wastes into the Magothy aquifer in the report area and, except at one well, water from the Magothy apparently was not contaminated by MBAS. This does not exclude the possibility of downward movement of these contaminants in the future if hydrologic conditions are changed substantially from those determined during this investigation.
6. Contamination of the upper glacial aquifer by detergents and by other sewage constituents probably will continue in those areas where individual waste-disposal systems are used. Construction of public sewers (now in progress, 1968) and advanced treatment of industrial wastes before disposal to the ground, however, should help reduce the present widespread contamination of the shallow ground water.

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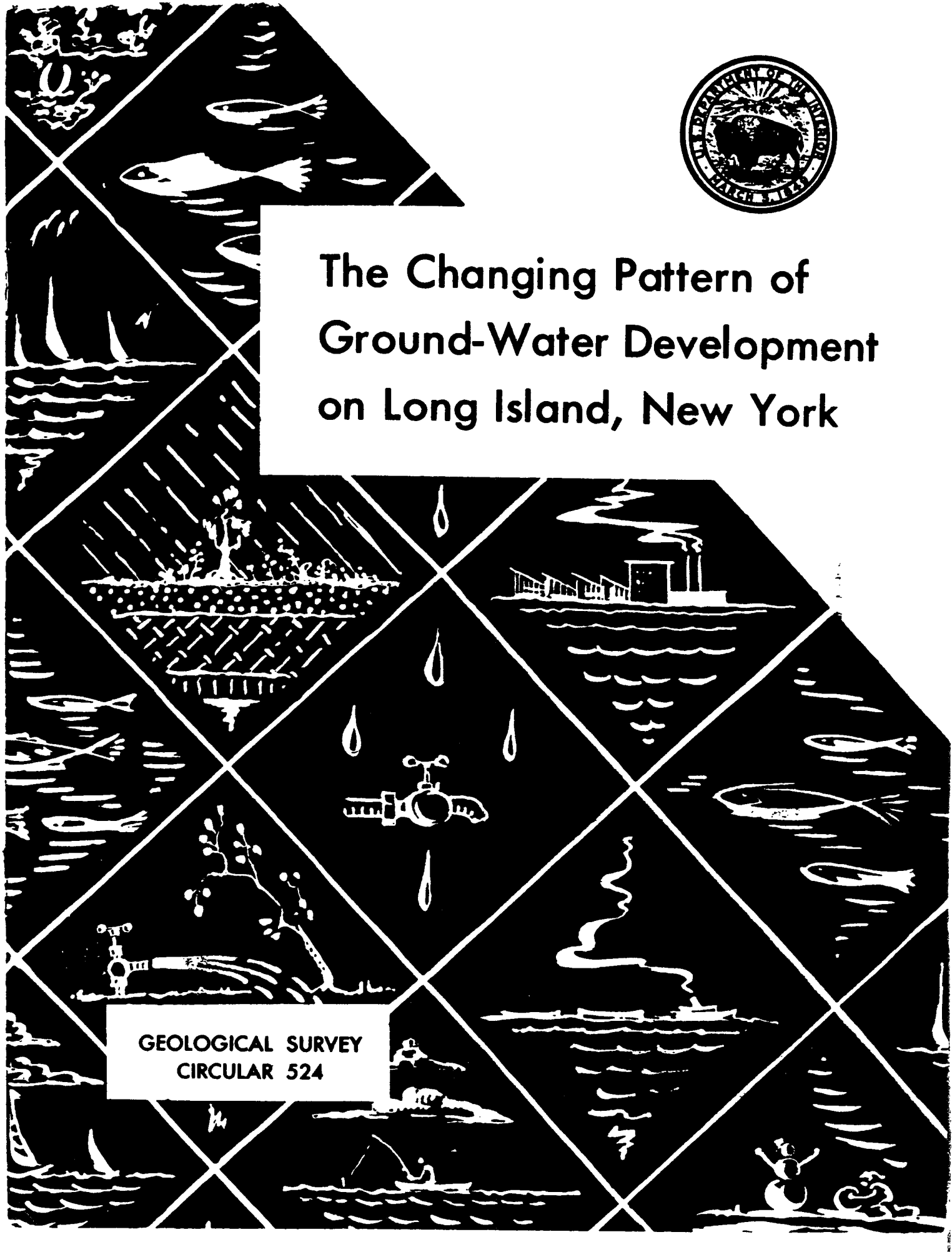
REFERENCE # 5

The Changing Pattern of Ground-Water Development on Long Island, New York



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The Changing Pattern of Ground-Water Development on Long Island, New York

By R. C. Heath, B. L. Foxworthy, and Philip Cohen

ABSTRACT

Ground-water development on Long Island has followed a pattern that has reflected changing population trends, attendant changes in the use and disposal of water, and the response of the hydrologic system to these changes. The historic pattern of development has ranged from individually owned shallow wells tapping glacial deposits to large-capacity public-supply wells tapping deep artesian aquifers. Sewage disposal has ranged from privately owned cesspools to modern large-capacity sewage-treatment plants discharging more than 70 mgd of water to the sea.

At present (1965), different parts of Long Island are characterized by different stages of ground-water development. In parts of Suffolk County in eastern Long Island, development is similar to the earliest historical stages. Westward toward New York City, ground-water development becomes more intensive and complex, and the attendant problems become more acute. The alleviation of present problems and those that arise in the future will require management decisions based on the soundest possible knowledge of the hydrologic system, including an understanding of the factors involved in the changing pattern of ground-water development on the island.

INTRODUCTION

Even before the severe drought that is now (1965) affecting the Northeastern United States, Long Island was well known among water specialists for its underground-water resource, mainly as a result of both the magnitude of the ground-water resource and the unique aspects of man's utilization of that resource. The current drought has focused increased attention upon the vast amount of ground water in storage on Long Island and upon the large quantity of water being pumped from the system. In 1963, for example, an average of about 380 mgd (million gallons per day) was pumped from Long Island wells; these wells tap a fresh ground-water reservoir that has an estimated storage capacity of 10 to 20 trillion gallons. Nearly all the water pumped was for domestic and industrial use, and this pumpage probably represents one of the largest such uses of a single well-defined ground-water reservoir anywhere in the world.

The history of ground-water development on Long Island has been thoroughly documented, largely as a result of studies made by the U.S. Geological Survey in cooperation with the New York State Water Resources Commission and Nassau and Suffolk Counties. The water development has followed a general pattern which, although somewhat related to population density and local waste-disposal practices, has been controlled largely by the response of the hydrologic system to stresses that man has imposed upon the system. The purpose of this report is to summarize the highlights of the historical pattern of ground-water development on Long Island and to consider briefly the insight that the history of development affords regarding the future development and conservation of Long Island's most valuable natural resource.

GEOLOGIC ENVIRONMENT

Long Island (fig. 1) has a land area of about 1,400 square miles and is geographically a large detached segment of the Atlantic Coastal Plain. The island is underlain by crystalline bedrock, the uppermost surface of which ranges in altitude from about sea level at the northwest corner of the island to about 2,000 feet below sea level in the southeastern part of Suffolk County (fig. 2).

The bedrock is overlain by a wedge-shaped mass of unconsolidated sedimentary deposits

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hydrologic imbalance (fig. 7). The imbalance, which is accentuated because more than 70 mgd of water derived from the ground-water reservoir of these subareas currently is being discharged to the sea by way of sewage-treatment plants, is mostly clearly manifested in subarea D, where salty water is moving landward (Lusczynski and Swarzenski, 1960; Perlmutter and Geraghty, 1963). If the present trend continues, subarea D (the area of active salt-water encroachment) probably will expand at the expense of subarea E.

Subarea F, in northeastern Queens County, receives nearly its entire water supply from the New York City municipal-supply system. The subarea is sewered; however, because ground-water pumpage is negligible, the ground-water system is largely in balance.

Subarea G is the most highly urbanized and receives virtually all its water from the New York City municipal system. The entire subarea is sewered. As previously noted, large areas in Kings County were invaded by salty water because of substantial overdevelopment and the resulting decline in ground-water levels. Similarly, salty water had invaded the ground-water reservoir in parts of western Queens County. Water levels in Kings County have recovered appreciably since the mid 1940's, when the consumptive ground-water uses were drastically reduced. Presumably, the salty water is retreating seaward and is being diluted by recharge derived from precipitation, but precise data regarding these changes are lacking.

CONCLUSION

Ground water probably will continue to be the major source of water for most of Long Island (except for Kings and Queens Counties) for at least the next several decades. Moreover, if the present trends continue, the ground-water resources of the island probably will continue to be depleted—perhaps at an accelerated rate. The historic trends of ground-water development and the present status of development strongly suggest that such depletion will in time cause salt-water contamination of larger and larger parts of the ground-water reservoir. Moreover, the areas in which such contamination occurs, in addition to extending inward from the coasts, probably will also extend farther and farther eastward as the population continues to expand in that direction.

Several alternative methods of conserving and augmenting the ground-water resources of Long Island are currently being considered. These include, among others, desalting of sea water with the use of atomic energy, artificial recharge, and the reclamation of water from sewage. The consequences of such possible measures are highly significant inasmuch as the future well-being of several million people is at stake. However, even with the most promising of conservation methods, wise management will be required to gain the fullest use from the available fresh-water supply while also preventing undue hardships resulting from local overdevelopment of the ground-water reservoir. Fully effective management requires:

1. Recognition of the unity of the hydrologic system of Long Island.

2. The best obtainable scientific information about the system and how it functions.

3. Sound evaluation of the various alternative methods of water development and conservation, guided by available scientific information—including the hydrologic consequences of the historic and present-day changing pattern of ground-water development on Long Island.

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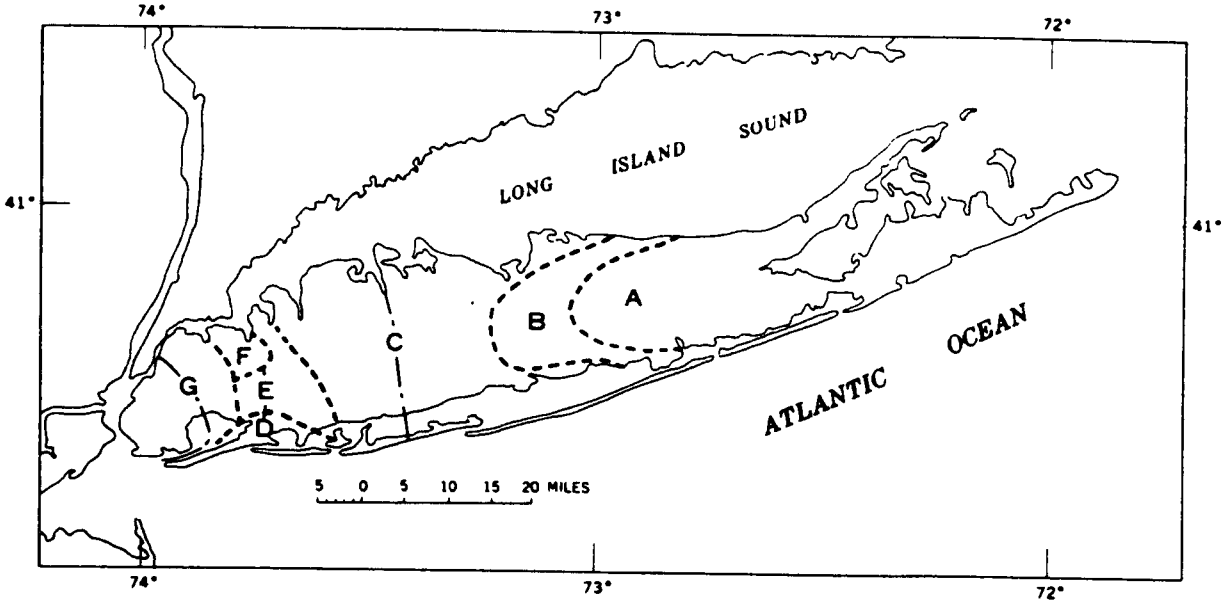
encroachment has not yet occurred. Plans are being made to install sewers throughout the subarea.

Subareas D and E, which include parts of western Nassau and southeastern Queens Counties, are moderately to highly urbanized and are almost completely sewered. Practically the entire water supply for these subareas is derived from wells tapping the Magothy Formation, Jameco Gravel, and the Lloyd Sand Member of the Raritan Formation. Thus, these subareas are mainly in phase 4 of development and are characterized by a



EXPLANATION

Subarea — *Characteristics*

A___ Phase 2 of development. Pumpage mainly from shallow privately owned wells. Waste water returned to shallow glacial deposits through cesspools; local contamination of glacial deposits by cesspool effluent. System virtually in balance; positions of salt-water fronts unchanged.

B___ Transition between phase 2 and 3. Pumpage from privately owned and public-supply wells. Waste water returned to shallow glacial deposits by way of cesspools; areas of cesspool-effluent contamination spreading. System virtually in balance.

C___ Phase 3 of development. Pumpage mainly from deep public-supply wells; waste water returned to shallow glacial deposits by way of cesspools. System locally out of balance, causing local salt-water intrusion.

D___ Phase 4 of development. Pumpage almost entirely from deep public-supply wells; waste water discharged to the sea by way of sewers. System out of balance; salty water actively moving landward.

E___ Phase 4 of development. Pumpage almost entirely from deep public-supply wells; waste water discharged to the sea by way of sewers. System out of balance; may be subject to salt-water intrusion in the future.

F___ Very little ground-water development. Water supply derived from New York City municipal-supply system; waste water discharged to the sea by way of sewers. System in balance.

G___ Very little ground-water development. Water supply derived from New York City municipal-supply system; waste water discharged to the sea by way of sewers. Large areas contain salty ground water owing to former intensive ground-water development and related salt-water intrusion.

Figure 8.—Water-development subareas in 1965.

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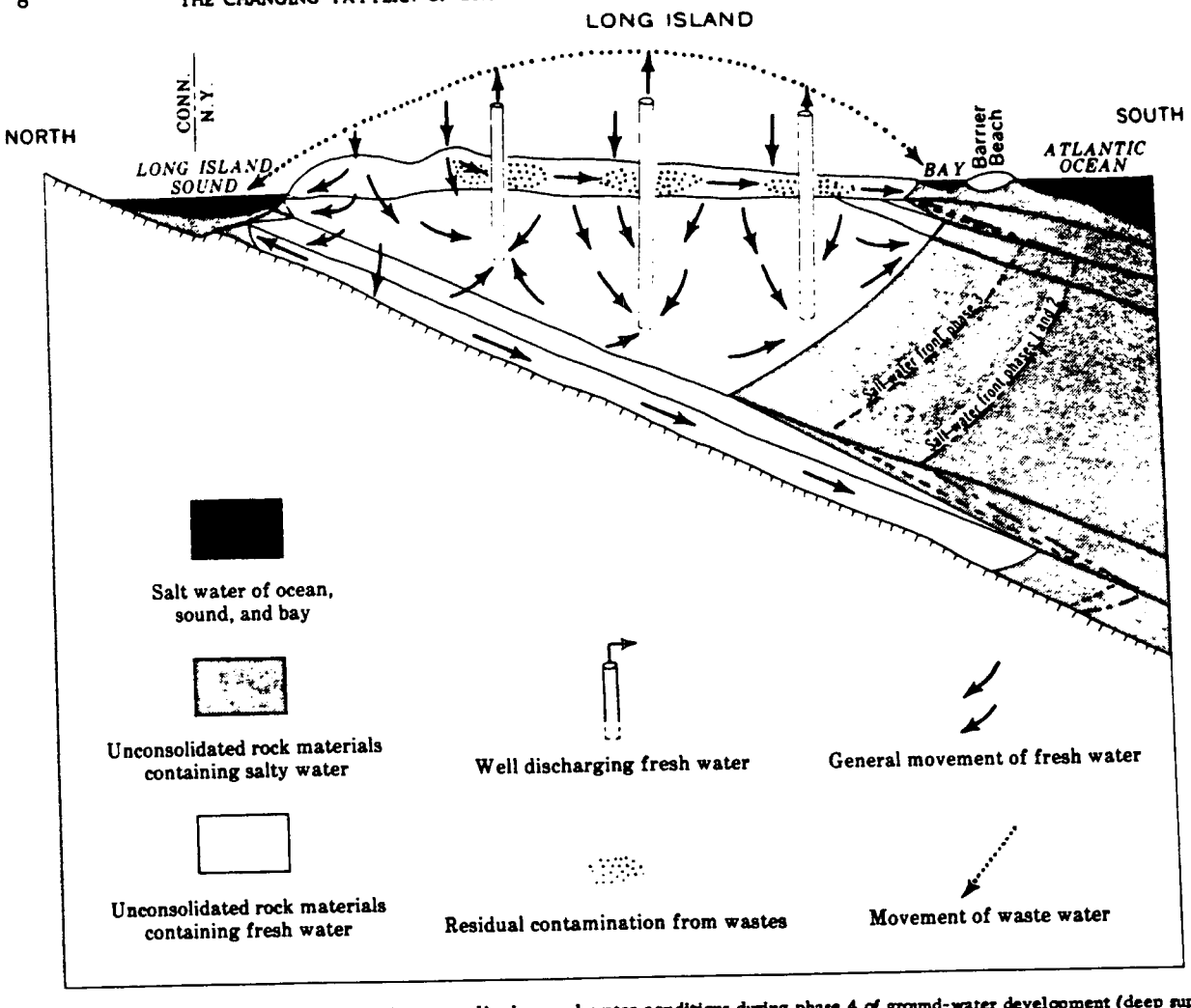

Figure 7.—Diagrammatic section showing generalized ground-water conditions during phase 4 of ground-water development (deep supply wells and waste disposal through sewers to adjacent salt-water bodies). Contacts between rock units are as shown in figure 2.

However, most of the sewage disposal is still through individually owned cesspools. Thus, the area is in a transition between phase 2 and phase 3 of development. Cesspool pollution still is not widespread, but is substantial enough to be of concern to local government agencies. Accordingly, plans are currently (1965) being made to construct sewers in the area and to gradually replace the wells that tap the glacial deposits with wells that will tap the Magothy Formation.

Subarea C includes the westernmost part of Suffolk County and the eastern two-thirds of Nassau County. Mainly because it is closer to New York City, this subarea was subjected to intensive suburban development earlier than was subarea B. Therefore, the population density and, accordingly, the water requirements in subarea C are substantially greater than in subarea B. Virtually the entire water supply for subarea C is obtained from large-capacity public-supply wells. The part of the subarea that is in western suffolk County obtains most of its water supply from public-supply wells, of which about half tap the glacial deposits and most of the remainder tap the Magothy Formation. In the part of the subarea that is in Nassau County, most of the public-supply wells tap the Magothy Formation.

Except for a few communities along the coast, most of subarea C is not sewered; practically all the domestic sewage is disposed of through individually owned cesspools. Thus, on the whole the subarea is in phase 3 of development (fig. 6). The system locally is out of balance owing to this development; however, substantial widespread salt-water

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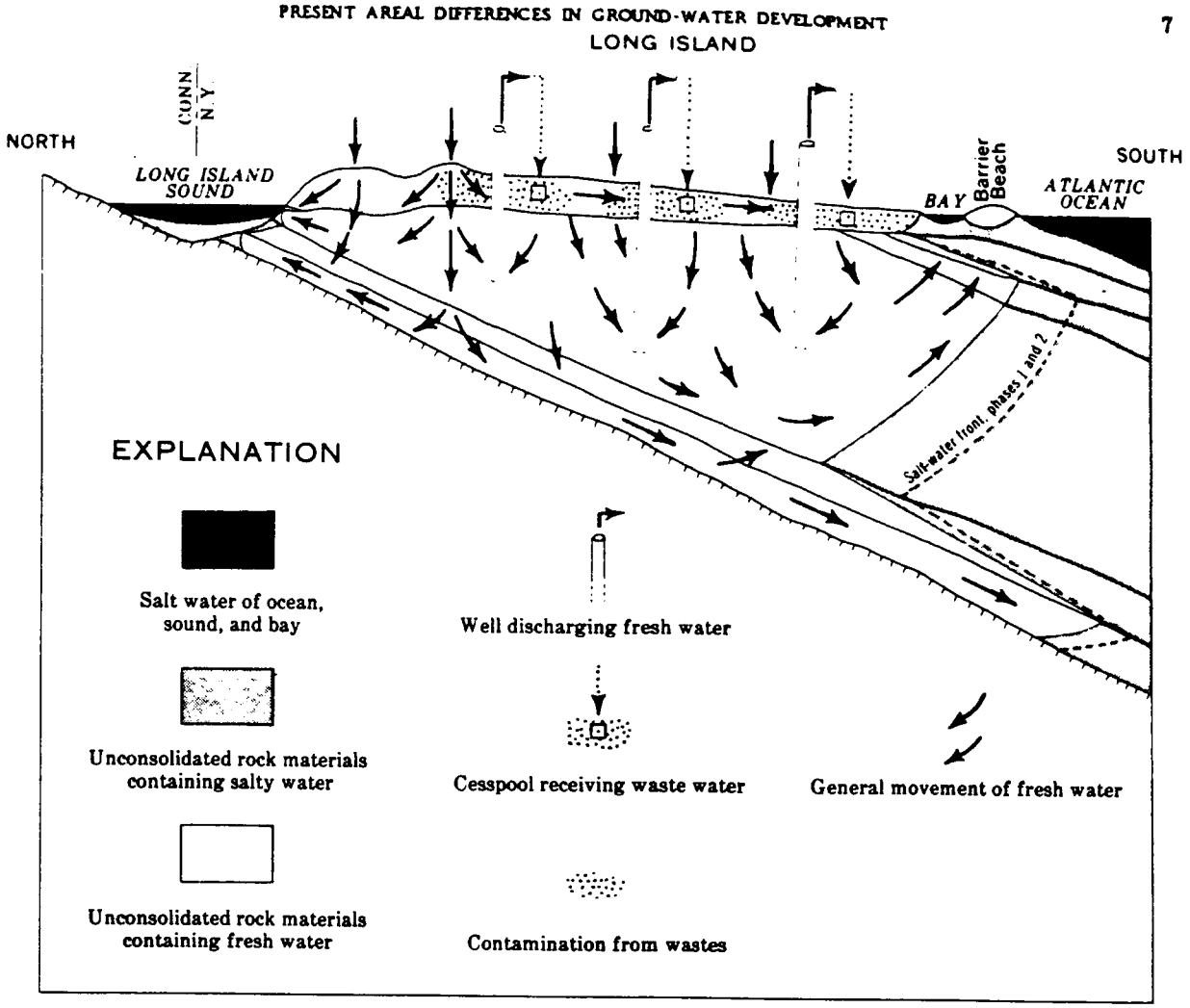


Figure 6.—Diagrammatic section showing generalized ground-water conditions during phase 3 of ground-water development (deep supply wells and waste disposal through cesspools). Contacts between rock units are as shown in figure 2.

PRESENT AREAL DIFFERENCES IN GROUND-WATER DEVELOPMENT

The present pattern of ground-water development on Long Island affords an excellent opportunity to observe and evaluate the historic trend of that development, because all the major phases of development described herein, except the predevelopment phase, can be observed now in different subareas of the island (fig. 8). Moreover, once the transitory status of present development in each subarea is recognized in relation to the pattern of historical trends, it becomes possible to predict and perhaps forestall some of the undesirable aspects of those trends.

Subarea A (fig. 8) includes roughly the eastern two-thirds of Suffolk County. Except for several small communities, the subarea is largely rural and has the lowest population density on Long Island. On the whole, the subarea can be characterized as being in phase 2 of ground-water development (fig. 5)—that is, most of the wells in the subarea tap the shallow glacial deposits and supply water to single-family dwellings. The bulk of this water is returned to the glacial deposits through individually owned cesspools, and in overall aspect the ground-water system is still in hydraulic balance.

Subarea B, in central Suffolk County, is experiencing the impact of the suburban expansion associated with the entire New York City metropolitan area. Farms and woodlands are giving way to housing developments, and most of the pumpage in the subarea is now from large-capacity public-supply wells that tap the glacial deposits.

R-49

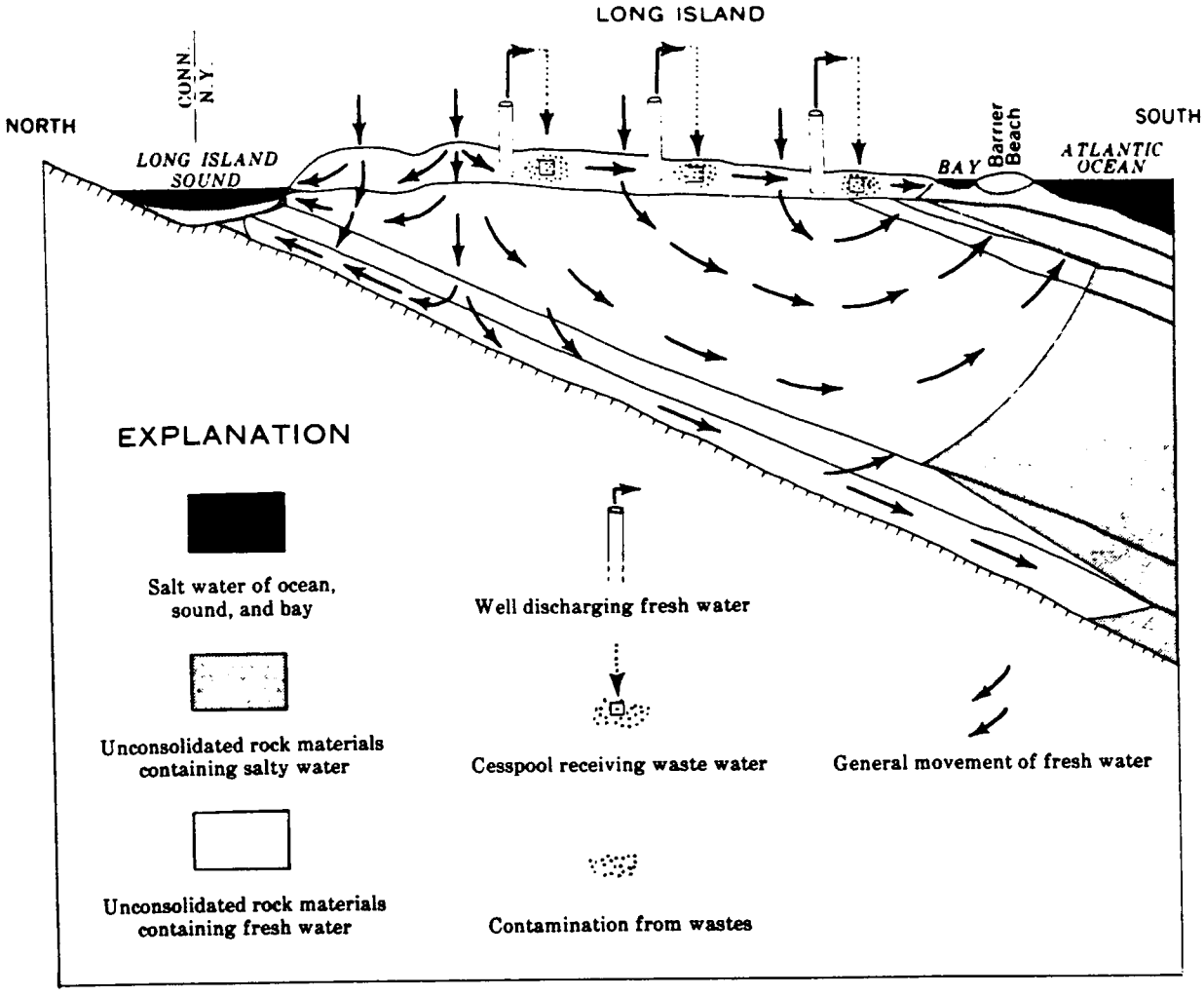


Figure 5.—Diagrammatic section showing generalized ground-water conditions during phase 2 of ground-water development (shallow supply wells and waste disposal through cesspools). Contacts between rock units are shown in figure 2.

the ground-water reservoir by means of cesspools was thereafter discharged to the sea through the sewers. Whereas the net draft on the ground-water system during the preceding phases of development was negligible, virtually all the ground water diverted to sewers during phase 4 represented a permanent loss from the system. The newly imposed stress on the ground-water system locally resulted in a rapid landward encroachment of salty water into the previously fresh ground-water reservoir. The most dramatic example occurred during the 1930's in Kings County (the Borough of Brooklyn), which by that time had been completely sewered for many years. In 1936, decreased natural recharge owing to urbanization and increased ground-water withdrawals, which during the previous few years averaged more than 75 mgd, caused ground-water levels in Brooklyn locally to decline to as much as 35 feet below sea level (Lusczynski, 1952, pls. 1 and 2). This local overdevelopment caused contamination of large parts of the ground-water reservoir in that area from sea-water encroachment.

In 1947 virtually all pumping for public supply in Kings County was discontinued and the Borough was thereafter supplied with water from the New York City municipal-supply system, which utilizes surface-water reservoirs in upstate New York. A notable exception was ground-water withdrawal for air-conditioning use. Such usage was permitted, however, only under the condition that the water was returned to the ground-water reservoir by means of injection wells (locally referred to as "diffusion" wells).

R-50

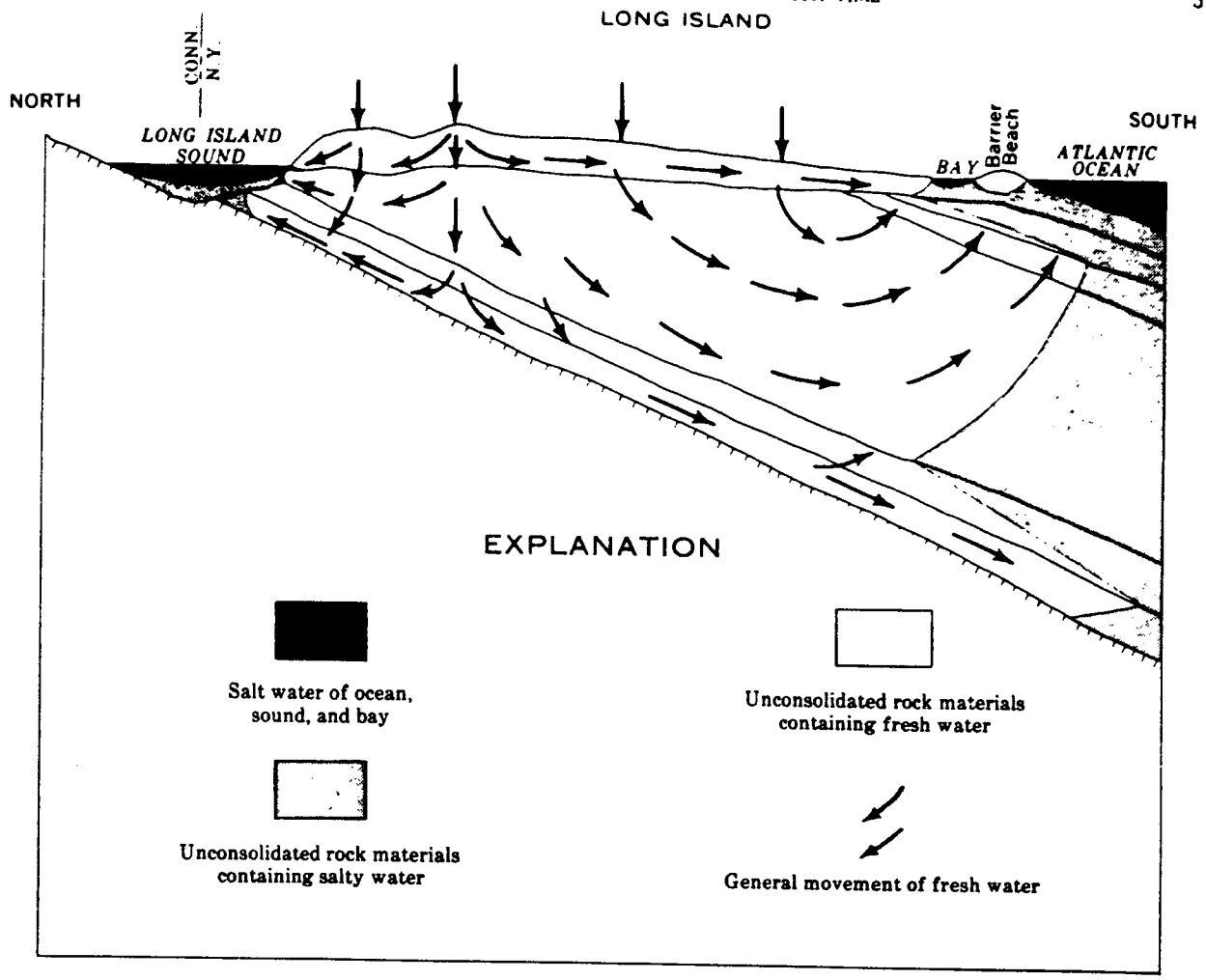


Figure 4.—Diagrammatic section showing predevelopment (phase 1) generalized ground-water conditions. Contacts between rock units are as shown in figure 2.

PHASE 3

In time, as the cesspool pollution spread, some shallow public-supply wells had to be abandoned and these were replaced with deeper public-supply wells, most of which tapped the Jameco Gravel and the Magothy Formation. Supply wells were also constructed in the deeper units at places where the glacial deposits contained water with objectionable amounts of dissolved iron or other troublesome natural constituents. Most of the water withdrawn from the deeper units was returned to the shallower glacial deposits by means of cesspools, and subsequently discharged to the sea by subsurface outflow or by seepage to streams (fig. 6).

As a result of the withdrawal of water from the Magothy Formation and the Jameco Gravel, and the concurrent decrease in hydraulic heads in these units, the downward movement of ground water from the overlying glacial deposits locally was increased. However, the increased downward movement only partially compensated for the withdrawals of water from the Magothy and Jameco deposits. Locally, a hydraulic imbalance developed in the Magothy and Jameco deposits and caused a decrease in the amount of fresh ground water in storage and a landward movement of salty water.

PHASE 4

The next major phase in the development of ground water on Long Island (fig. 7) was the introduction of large-scale sewer systems—notably in that portion of Long Island that is part of New York City (Kings and Queens Counties). Most of the pumped ground water that previously had been returned to

R-51

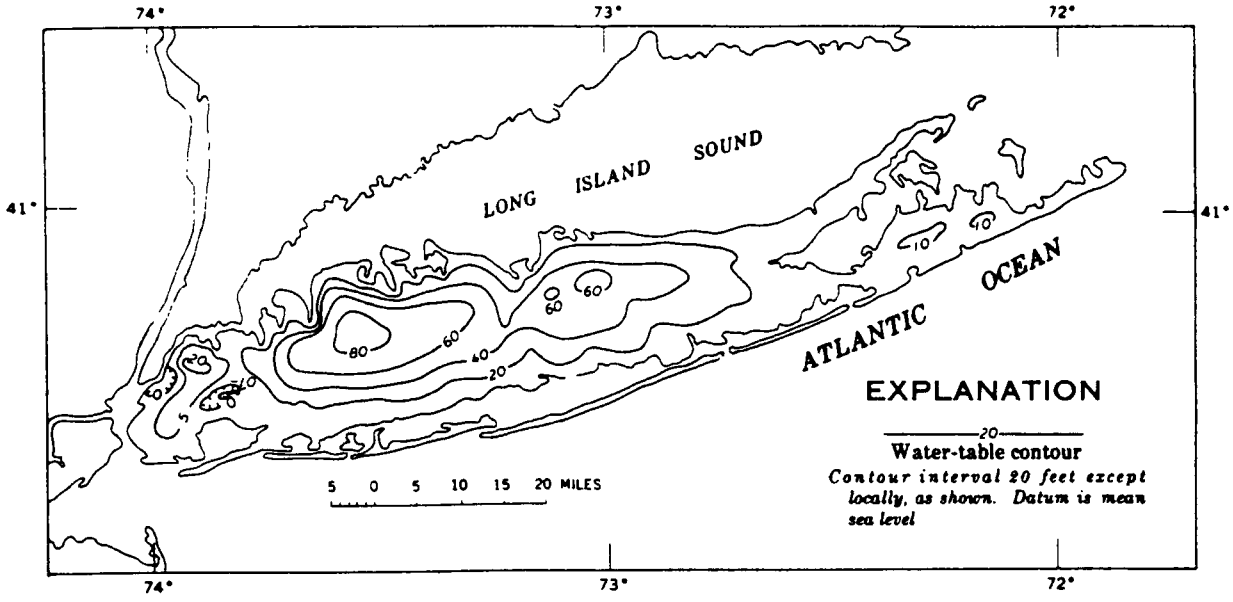


Figure 3.—Generalized contours on the water table (the upper surface of the ground-water reservoir) in 1961.

that about 90 percent of the total recharge ultimately discharged from the glacial deposits (mainly by seepage to streams), and about 10 percent discharged by subsurface outflow from the Magothy Formation, the Jameco Gravel, and the Lloyd Sand.

The water table on Long Island (fig. 3) and also the piezometric (pressure) surfaces of the underlying artesian aquifers (which have about the same general shape as the water table) form elongate mounds following roughly the configuration of the land surface. Two prominent highs characterize the water table—one centered in Nassau County and one centered in Suffolk County. Northwestern Queens County also has a small high in the water table. Other notable features are the cones of depression that extend below sea level in Kings and Queens Counties; these cones are in areas of past or current local overdevelopment of ground water.

CHANGES IN GROUND-WATER DEVELOPMENT WITH TIME

PHASE 1—PREDEVELOPMENT CONDITIONS

Ground-water development on Long Island has progressed and is progessing through several distinct phases. Under natural or predevelopment conditions (fig. 4), the hydrologic system was in overall equilibrium and long-term average ground-water recharge and discharge were equal. The general positions of the subsurface interfaces between fresh and salty water in each of the previously described geologic units were stable, reflecting the overall hydrologic balance. The interfaces were virtually at the coasts in the glacial deposits and were offshore in the underlying units.

PHASE 2

In the initial stage of development (fig. 5), which began with the arrival of the first European settlers, virtually every house had a shallow well drawing water from the glacial deposits and a cesspool returning waste water to the same deposits. As the population increased, individual wells were abandoned and public-supply wells were installed in the glacial deposits. The individual cesspools, however, were retained and little water was lost from the system during use. Although a considerable amount of ground water was being withdrawn, practically all of it was returned to the same aquifer from which it was removed. In general, therefore, the system remained in balance, and the positions of the interfaces between fresh and salt water remained practically unchanged. However, this cycle of ground-water development and waste-water disposal resulted in the pollution of the shallow ground water in the vicinity of the cesspools.

R-52

that attain a maximum thickness of about 2,000 feet. These deposits constitute the ground-water reservoir of Long Island and can be divided into six major stratigraphic units, which differ in their geologic ages, mineral composition, and hydraulic properties. These units are, from oldest to youngest, (1) Lloyd Sand Member of the Raritan Formation, (2) clay member of the Raritan Formation, (3) Magothy Formation, (4) Jameco Gravel, (5) Gardiners Clay, and (6) glacial deposits. (Suter and others, 1949). The first three units listed are of Cretaceous age, and the last three are of Pleistocene age.

The Lloyd Sand Member of the Raritan Formation has a maximum thickness of about 300 feet and consists mainly of fine to coarse sand and some gravel and interbedded clay. It forms the basal water-bearing unit of the ground-water reservoir. The clay member of the Raritan Formation is composed mainly of clay but locally contains considerable sand; it also has a maximum thickness of about 300 feet. Hydraulically, the clay member is a leaky confining layer for the Lloyd Sand Member—retarding, but not preventing, vertical leakage of water to and from the Lloyd.

The Magothy Formation on Long Island is partly correlative with the Magothy Formation in New Jersey. It consists of complexly interbedded layers of sand, silt, and clay and some gravel in the lower part. The complexity of the interbedding and the character of fossils it contains suggest that the formation was mainly laid down under continental (flood-plain) conditions. The Magothy Formation is the thickest unit of the ground-water reservoir on Long Island, attaining a maximum thickness of about 1,000 feet. Its horizontal permeability differs widely from place to place and is considerably higher than its vertical permeability. It commonly yields more than 1,000 gpm (gallons per minute) per well. Water in the formation is largely under artesian conditions.

Near the north and south shores of the island, the Magothy Formation locally is overlain by the Jameco Gravel. The maximum thickness of the Jameco is about 200 feet. It consists mainly of medium to coarse sand, but locally contains abundant gravel and some silt and clay. The Jameco Gravel is moderately too highly permeable and yields as much as 1,500 gpm per well. Water in the formation occurs under artesian conditions.

The Gardiners Clay is mainly restricted in extent to two moderately narrow bands that parallel the north and south shores, and it is commonly underlain by either the Jameco Gravel or the Magothy Formation.

The surface of Long Island is composed mostly of material deposited either directly by Pleistocene continental ice sheets or by melt water derived from the ice sheets. These glacial deposits consist mainly of sand and gravel outwash in the central and southern parts of the island, and mixed till and outwash atop and between the hills in the northern part of the island. The glacial outwash deposits are highly permeable and therefore permit moderately rapid infiltration of precipitation.

HYDROLOGIC SYSTEM

The four major water-bearing units of the ground-water reservoir of Long Island are the glacial deposits, Jameco Gravel, Magothy Formation, and Lloyd Sand Member of the Raritan Formation (fig. 2). These four units contain mostly fresh ground water; however, locally they contain salty ground water or they are hydraulically connected with salty water of the ocean, sound, or bays. Under natural conditions recharge to the ground-water reservoir resulted entirely from the infiltration of precipitation, which is estimated to have averaged roughly 1 mgd per square mile (Swarzenski, 1963, p. 35). Most of the ground water moved laterally through the glacial deposits and discharged into streams or into bodies of salt water bordering the island without first reaching deeper water-bearing zones. Most of the remainder of the ground water moved downward through the glacial deposits into the Jameco Gravel or Magothy Formation, and from there part flowed laterally to the ocean and the remainder flowed downward through the clay member of the Raritan Formation into the Lloyd Sand Member. (See fig. 4.)

Estimates of ground-water discharge under natural conditions can be developed by extrapolation of data listed by Pluhowski and Kantrowitz (1964, p. 38–55) for the Babylon-Islip area, a large and reasonably representative part of Long Island. Those data suggest

R-53

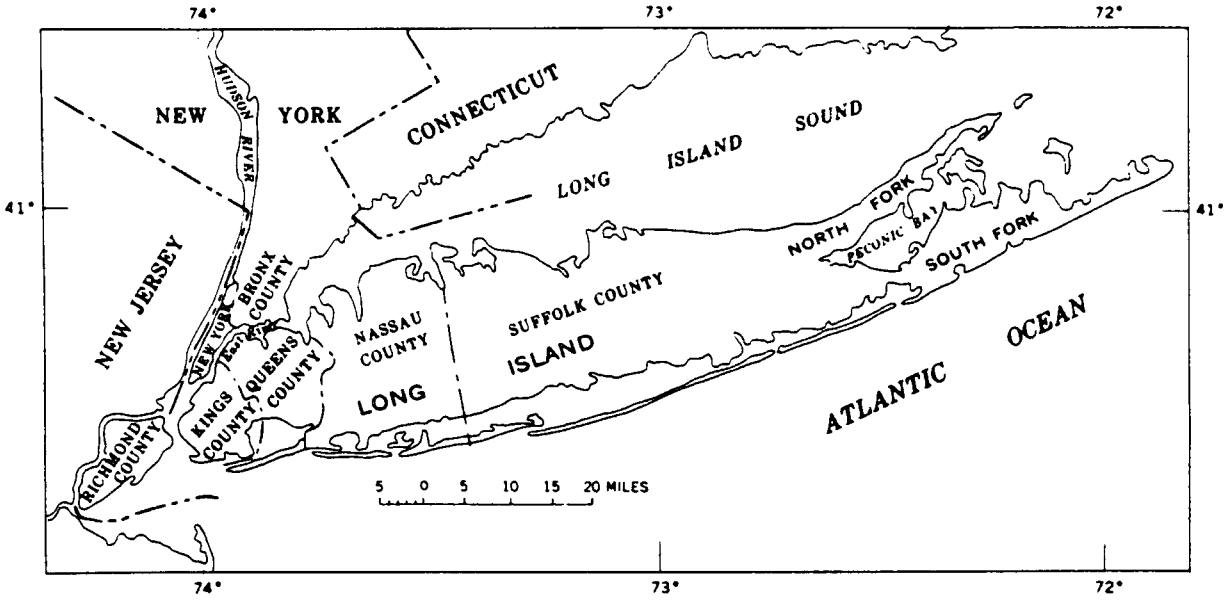


Figure 1.—Long Island and vicinity.

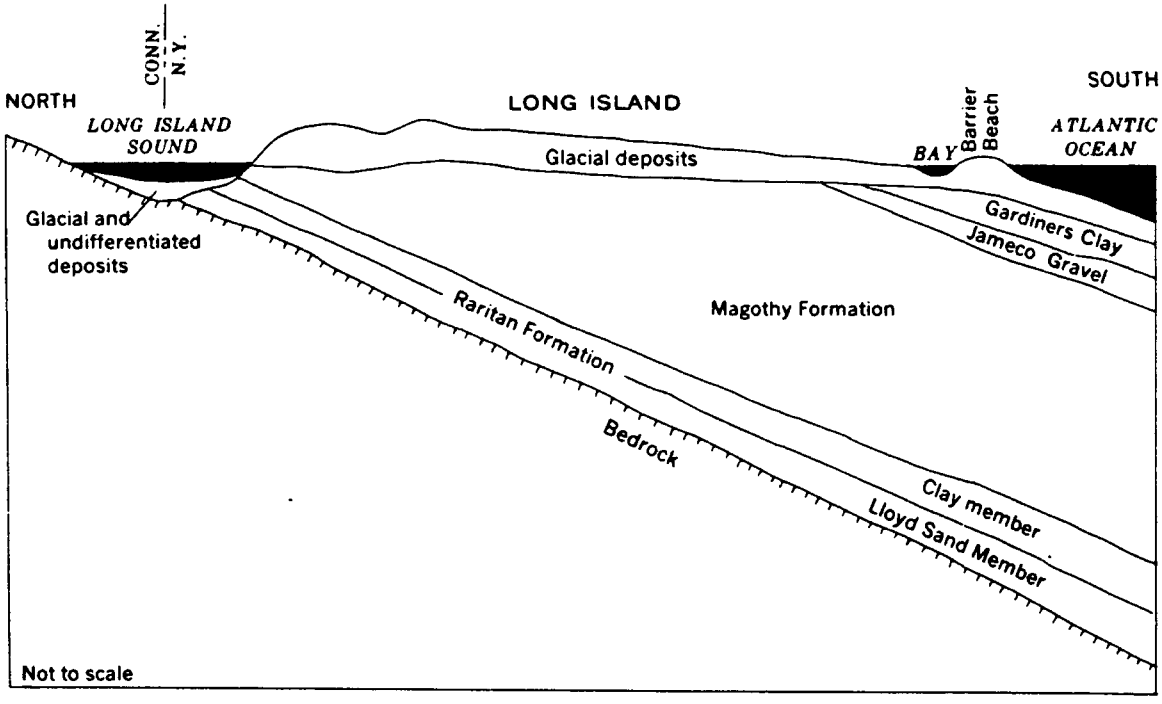


Figure 2.—Diagrammatic section showing general relationships of the major rock units of the ground-water reservoir in Nassau County.

R-54

REFERENCE 6

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual

(HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

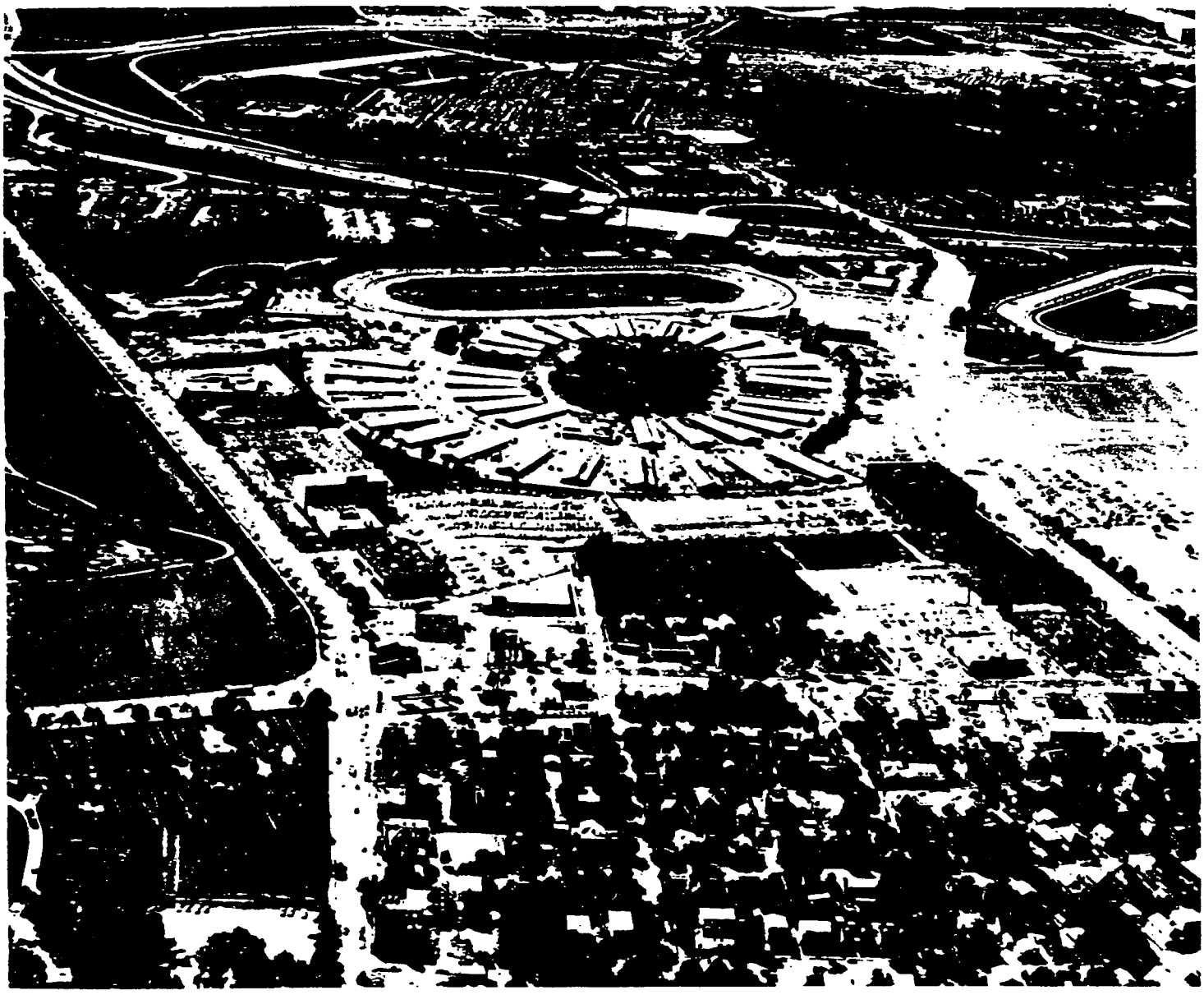
REFERENCE #7

United States
Department of
Agriculture

Soil
Conservation
Service

In cooperation with
Cornell University Agricultural
Experiment Station

Soil Survey of Nassau County New York



5000 4000 3000 2000 1000 0 5000 10000

1 .5 0 1 2 3 Kilometers

Scale 1:24000

a hazard to the ground water or to water in adjacent tidal areas because the sandy material is a poor filter.

Settling and compaction of the organic layers limit the unit as a site for dwellings without basements, and the water table is a limitation for dwellings with basements. Some areas of these soils are limited by tidal flooding during intense coastal storms. The use of pilings helps to overcome or alleviate the settling and wetness.

Settling of the organic material is the main limitation of the soil as a site for local streets and roads. The rate of settlement varies with time and the amount of organic material.

The high sand content limits recreation use and landscaping, and settling is a limitation, especially for permanent structures. Some intensively used areas require a veneer of loamy soil to improve trafficability and to improve water holding capacity for better support of plants. Topsoil, fertilizers, and irrigation are usually needed to overcome droughtiness and low fertility when establishing lawns and shrubs, and most species must be salt tolerant.

This unit is poorly suited to all types of wildlife habitat.

Uf—Udorthents, refuse substratum. This unit consists of nearly level to steep, sandy soils in sanitary landfills that have been reworked by earth-moving and grading equipment to cover trash and other refuse. Often the refuse is partly covered or mixed with the sandy fill material. The sides of most areas are steep, and the tops are nearly level or gently sloping. The areas are mostly rectangular or irregular in shape and range from 1 to 100 acres. Slope ranges from 0 to 35 percent, and the slopes are smooth or convex.

Commonly, the upper 2 to 3 feet of this unit is mixed layers of sandy fill material. This material overlies layers of garbage and refuse which range in thickness mainly from 2 to 10 feet. Where the sandy material is used just for daily cover, it is likely to be thinner than 2 feet.

Some areas of this map unit are in former sand and gravel pits, and others have been filled with the original soil material.

Properties—

Permeability: Variable but generally ranges from very rapid to moderate.

Water table: Variable, depending upon elevation of the unit and the level of the water in adjacent soils.

Available water capacity: Mainly very low.

Erosion hazard: Moderate on sloping areas; severe on steep areas.

Most active sanitary landfills do not have a plant cover. Older or abandoned landfills have varying amounts of grasses, weeds, and shrubs.

Settling of the underlying material and the instability of the material are major limitations of this unit for most types of development, including housing, local roads and streets, and septic effluent disposal systems.

Droughtiness and low natural fertility limit the unit for landscaping and make the use of topsoil, fertilizers, and irrigation necessary.

Onsite investigation is necessary to determine the potentials and limitations of this unit for any use.

Ug—Urban land. This map unit consists of areas where at least 85 percent of the surface is covered with asphalt, concrete, or other impervious building material. These areas mostly are parking lots, shopping centers, industrial parks, or institutional sites. Many are in the business centers in the villages and cities. Most areas are nearly level, and some are gently sloping. A few small areas, mostly in the northern part of the county, are strongly sloping. Many areas are rectangular or long and narrow and are mainly adjacent to local main thoroughfares. The areas range from about 3 acres to as much as several hundred acres.

Included with this unit in mapping are small areas of soil that has not been appreciably altered or that is not under an impervious cover. These areas are mainly in lawns or other landscaped areas. Most of the included open areas are well drained Riverhead, Hempstead, or Enfield soils or excessively drained Udipsamments.

In many areas rapid or very rapid runoff prevents adequate discharge of runoff from intense rainstorms to safe outlets. A few areas are in low spots where seasonal wetness sometimes causes temporary flooding of the surface or frost heaving and subsequent breakup of surface pavements.

Uh—Urban land-Hempstead complex. This unit consists of urbanized areas and very deep, well drained soils. It is on nearly level plains. The areas of this unit are variable in shape and are as small as 10 acres, but some areas are as much as 1,000 acres. Slope ranges from 0 to 3 percent, but in most areas that are not near drainageways or depressions it is less than 2 percent. This unit consists of about 75 percent urbanized areas, 20 percent Hempstead soils, and 5 percent other soils. The urbanized areas and Hempstead soils are so intermingled that it was not practical to map them separately.

The urbanized areas consist of buildings, roads, driveways, parking lots, and other manmade structures.

The typical sequence, depth, and composition of the layers of Hempstead soils are as follows—

Surface layer:

Surface to 11 inches, black silt loam

Subsurface layer:

11 to 15 inches, dark brown silt loam

Subsoil:

15 to 29 inches, yellowish brown silt loam

REFERENCE #8

R-LI
Appendix 11-35

New York State Department of Environmental Conservation

MEMORANDUM

TO: Site File
FROM: Terri Gerrish
SUBJECT: Alsy Manufacturing
Inactive - SAO
DATE: Typed: 06/14/85

Received from:
Nassau Co. Dept. of Health

SAMPLING TRIP REPORT
DIVISION OF ENVIRONMENTAL ENFORCEMENT

ENFORCEMENT CATEGORY: INACTIVE - SUMMARY ABATEMENT ORDE

FIELD UNIT: White Plains

SAMPLING DATE: 05/08/85

SITE NAME: Alsy Manufacturing
270 Duffy Ave., Hicksville,
New York 11801

1. Sampling Locations: See attached sketch.

2. Sample Description: See attached table.

3. Laboratory Receiving Samples: ERCO
205 Alewife Brook Park
Cambridge, MA 02178

4. Sample Dispatch Data:

Location sent from: Federal Express, Hicksville, L.

Airbill Number: 626 292 063

Date & Time sent: 05/08/85 1900 hrs.

Sent by: Terri Gerrish

JUN 26 1985
EASTERN REMEDIAL ...

JUL 1 - 1985
NASSAU COUNTY
DEPARTMENT OF HEALTH
DIV. OF ENVIRONMENTAL HEALTH

5. Sampling Personnel:

Name	Organization	Duties on Site
Terri Gerrish	NYSDEC - DEE	Engineer, sampler
Dick Torrey	NYSDEC - DSHW ALB.	Sampler
Bill O'Brien	NYSDEC - DIV. WATER Reg. I	Assistant
Bob Willis	NCDOH	---
Ram Iyer	H2M Corp.	Consultant for Alsy
John	Alsy	Plant Manager

6. Safety Requirements:

- o Latex and nitrile gloves
- o HNu readings taken at opening of each sump
- o De-contamination by Alconox solution and water rinse
- o Tyvek suits

7. General:

Weather Conditions: Mild -- low to mid 60's; partly cloudy; moderate breeze.

Comments & Observations:

- o Sampling equipment pre-cleaned with Alconox solution, water, acetone, methanol, hexane, methanol, distilled water.
- o Sampling tools used for composite samples were wiped and brushed with Alconox solution, water and distilled water between portions of composite.

- All "E" sample numbers refer to liquid samples.
  All "R" sample numbers refer to soil/sludge samples.

- All samples for EP toxicity analysis were collected into ½ pint clear glass jars. All samples for metals analysis were collected into ½ liter plastic containers with 5 ml. concentrated nitric acid. All samples for volatiles were collected into 40-ml. vials with teflon septums.

- All liquid samples were collected with a pre-cleaned PVC bottom check valve bailer.

- Soil/sludge samples from pools or catch basins were collected with a pre-cleaned Ekman dredge.

- Soil samples from the ground surface were collected with a pre-cleaned plastic scoop. The soil pile was augered, then sampled with a stainless steel sampler at a depth of approx. 1 to 2 ft.

- Soil composites were mixed with a plastic scoop on teflon-coated foil.

TAG/jg
cc: Bob Willis
Dick Torrey
Stan Juczak
Ted Sanford

SAMPLING DATA TABLE

ALSY MANUFACTURING

P

DEC SAMPLE NO.	(See attached map) LOCATION & METHOD	SAMPLE DESCRIPTION AND COMMENTS	REQUESTED ANALYSIS
E185-222-01	Composite - 2 locations. West and center catch basins in receiving area parking lot.	Liquid. No HNu reading	Total metals Volatiles (Method 601 a 503.1)
E185-222-02	Grab Leaching pool East # 1	Liquid. No HNu reading	Same as E185-222-01
E185-222-03	Composite - 3 locations. Two leaching pools north of (behind) Cycle II, and 6-inch pipe.	Liquid. No HNu reading	Same as E185-222-01
E185-222-04	Composite - 2 locations. Middle of shipping area, north and south pools. South pool collected near bottom. North pool collected with plastic jug.	Liquid. No HNu reading South pool: 3½ feet to water. Approx. 8 ft. of water. North pool: 2 ft. to water. Approx.3-4 inches of water.	Same as E185-222-01

SAMPLING DATA TABLE

ALSY MANUFACTURING

P.

DEC SAMPLE NO.	(See attached map) LOCATION & METHOD	SAMPLE DESCRIPTION AND COMMENTS	REQUESTED ANALYSIS
E185-222-05	Grab. West pool in shipping area. Note: Tried to dredge bottom for visual inspection of material, but dredge would not trip.	Liquid. HNu reading = 4ppm 2½ feet to water. Approx. 8 inches of water. Pool had slight sheen on surface. Sample had slight chemical odor and suspended sediment.	Same as E185-222-01
E185-222-06	Grab. East pool in shipping area.	Liquid. HNu = 2 ppm. Approx. 5 ft. to water, approx. 7-8 ft. of water, approx. 6 ft. diameter	Same as E185-222-01
TRIP BLANK	From lab, dated 05/01/85.	Water.	Volatiles
E185-012-01	Composite - 3 locations. East catch basin (Dry well # 1) in receiving area, West # 1 pool and West # 2 pool. Note: H2M collected each area separately since Dry well # 1 appeared to be soil rather than sludge.	Soil/sludge Dry Well # 1: sandy, gritty loose brown material. West # 1: Approx. 10 ft. of water. Wet, gelatin-like light blue-green material with some brown, tan, orange streaks. Slight odor. West # 2: Wet. Olive green, gray-brown metals-sludge-type material. Possible odor.	EP toxicity for metals

SAMPLING DATA TABLE

ALSY MANUFACTURING

P.

DEC SAMPLE NO.	(See attached map) LOCATION & METHOD	SAMPLE DESCRIPTION AND COMMENTS	REQUESTED ANALYSIS
E185-012-01B	Grab. West # 1 pool.	Same as West # 1 above. Collected since solvent odor present.	Volatiles
R185-012-02	Grab. West # 3 pool.	Sludge. Dense bluish and looser olive green typical metals sludge. Some reddish grains. Trace amount of sand.	EP toxicity for metals Volatiles
R185-012-03	Grab. East # 1 pool	Soil/sludge. Gray wet gelatin sludge-like material.	EP toxicity for metals Phenols
R185-012-04	Composite - 4 locations. Pile northwest of leaching area. Four borings.	Soil. Soil with minute, colored chips.	EP toxicity for metals

SAMPLING DATA TABLE

ALSY MANUFACTURING

DEC SAMPLE NO.	(See attached map) LOCATION & METHOD	SAMPLE DESCRIPTION AND COMMENTS	REQUESTED ANALYSIS
R185-012-05	Composite - 3 locations. Sludge crust from railroad siding area immediately north of Cycle II.	Sludge. Brown, dry, caked material	EP toxicity for metals Phenols
R185-012-06	Composite - 3 locations. Adjacent to west wall of Cycle II building - 2 Cycle II sinks discharge area and plating overflow discharge area.	Soil. H2M collected individual grab samples.	EP toxicity for metals Phenols
R185-012-07	Grab. Shipping area loading dock near dumpster adjacent to wall.	Soil. Glass, stones, soil with colored chips.	EP toxicity for metals Phenols

G/jg

PAGE 1 OF 2

New York State Department of Environmental Conservation

Division of Environmental Enforcement

Site Code _____
Priority (explain) _____

MATERIALS SAMPLE ANALYSIS REQUEST

PART I: FIELD SECTION

Environmental Sample X
* Hazardous Waste Sample _____

Collector's Names R.G TORREY Telephone (515)457-5637

CT Custodian R.G. TORREY Telephone Same

Address 50 WOLF RD, RM 414 ALBANY NY 12233
number street city state zip

Date Sampled 05/05/85 Time Sampled 1:30-6:00pm Hours

Waste Type Code _____ Other _____

Note: All R155 are soil/sludge
All E155 are water/liquid

	Lab No.	Collector's Sample No.	Type of Sample	Field Information
plastic + vials		E155-222-01	water composite	Receiving, west & center
plastic + vials		E155-222-02	grab water	East #1
plastic + vials		E155-222-03	composite water	Leaching pools behind Cycle II.
plastic + vials		E155-222-04	composite water	Shipping court, middle N & S pools
plastic + vials		E155-222-05	grab water	Shipping court, west pool
plastic + vials		E155-222-06	grab water	Shipping court, east pool
plastic + vials		TRIP BLANK	water	40-ml vial

SEE NEXT PAGE

Analysis Requested: All (water) plastic bottles w/ HNO_3: Total Metals. All 40-ml vials (additional) EPA 601 and 503.1. All R155 in small clear glass jars: EP tox for metals. All R155 in brown glass w/ H_2SO_4 and $CuSO_4$: total phenols

Special Handling and/or Storage: 4°C

PART II: LABORATORY SECTION

Received by _____ Title _____ Date _____

New York State Department of Environmental Conservation

Division of Environmental Enforcement

Site Code _____
Priority (explain) _____

MATERIALS SAMPLE ANALYSIS REQUEST

Environmental Sample X
* Hazardous Waste Sample _____

PART I: FIELD SECTION

Collector's Name: RG. TORREY Telephone (518)457-5637
CT Custodian: RG. TORREY Telephone _____
Address: See pg 1 (number, street, city, state, zip)
Date Sampled: 05/05/85 Time Sampled: 1:30-6:00 pm Hours
Waste Type Code _____ Other _____

	Lab No.	Collector's Sample No.	Type of Sample	Field Information
EP tox		R155-012-01	composite soil/sludge	East catch basin W#1, W#2 peels
volatiles		R155-012-01B	grab sludge	40-ml vials from W#1
EP tox & vol.		R155-012-02	grab sludge	W#3, clear glass plus vials
P tox & phenol		R155-012-03	grab soil	E#1 peel
EP tox		R155-012-04	composite soil	NW large pile
P tox & phenols		R155-012-05	composite sludge	RF sulug, crust
EP tox & phenol		R155-012-06	composite soil	West wall of Cycle II
P tox & phenol		R155-012-07	grab soil	Shipping loading dock by dumpster

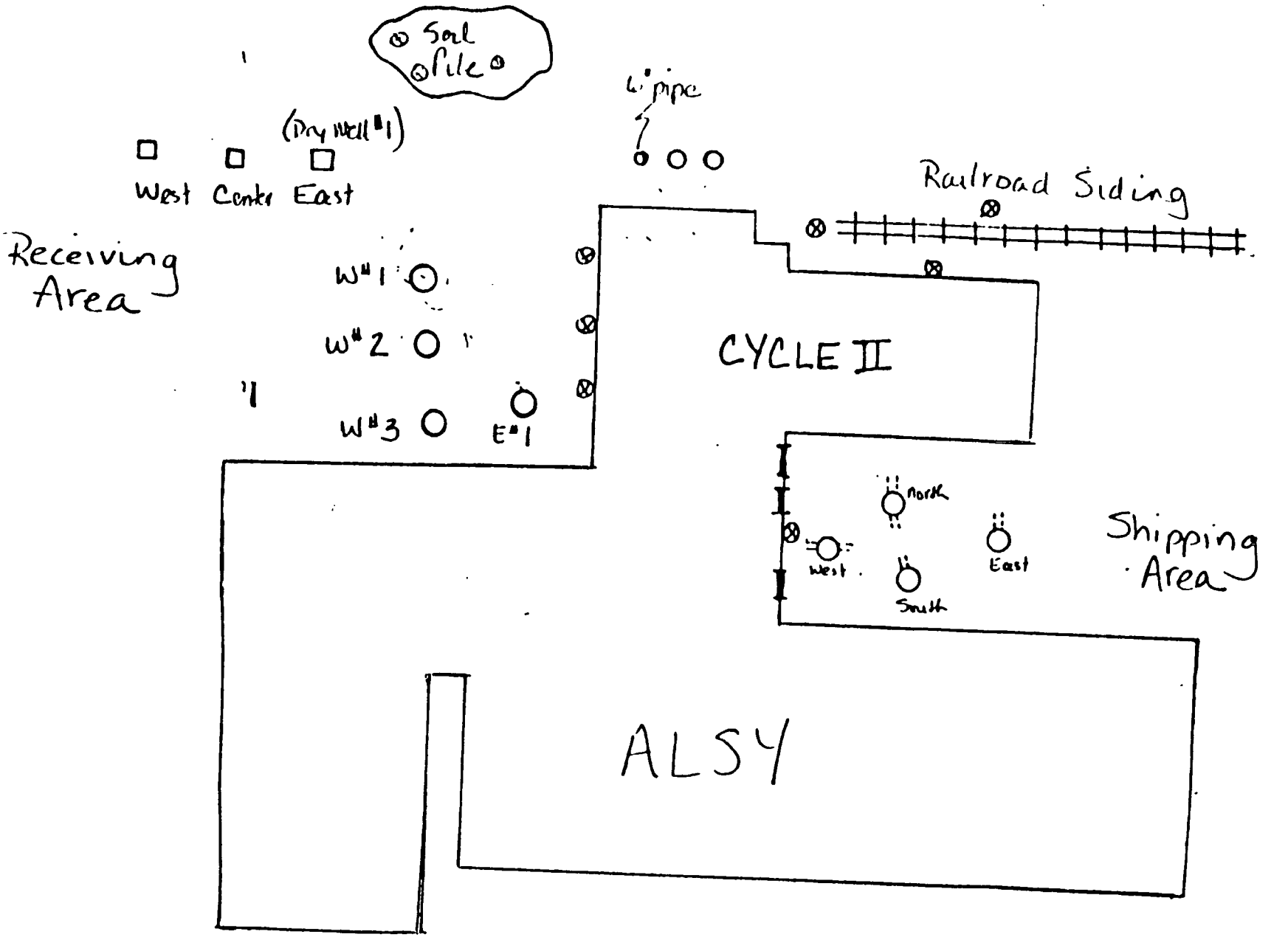
SEE FIRST PG ALSO

Analysis Requested: All R155 in small clear glass: EP tox for metals. All R Vials: EPA 601 and 503.1. All R in brown glass with H_2SO_4 and $CuSO_4$: tot phenols. All E plastic w/ HNO3: tot metals. All E vials 601 & 5

Special Handling and/or Storage: 4°C

PART II: LABORATORY SECTION

Received by _____ Title _____ Date _____


Soil Pile
(Dry Well #1)
West Center East
Receiving Area
W#1
W#2
W#3
E#1
4" pipe
Railroad Siding
CYCLE II
North
West
East
South
Shipping Area
ALSY
N (approx)
NOT TO SCALE
Catch Basin
Leaching pool
Soil Sample

Appendix 1.1-36

Received
NYDEC

New York State Department of Environmental Conservation
Building #40 SUNY
Stony Brook, New York 11794

May 6, 198

Mr. Robert Gentile
Alsy Manufacuturing
270 Duffy Avenue
Hicksville, NY 11801

Dear Sir:

Mr. Gindel has stated that you are authori
decisions regarding cleanup and remedial investig
absense. Representatives of this Department and
County Department of Health have performed inspec
facility, during the week of 29 April 1985, for
determining compliance with the Summary Abatement
April 85.

In order to achieve compliance with item num
that order, the following additional actions are

1. The trough around the plating area; the
of the trough before the discharge pipe should b
concrete to the level of the floor.

2. The PVC pipe along the west wall of the
formerly a sink drain should be removed complete

3. The PVC pipe in the floor of the Cycle II
room should be filled with concrete flush with the

4. The PVC pipe leading from the northern cess
SPDES Outfall to the railroad siding must be dug up
completely removed.

5. The black PVC pipe in the driveway on the w side c
280 Duffy Avenue, apparently a former sink drain must be cut
at ground level and the area where the pipe entered the ground
paved over.

6. The floor drain near the treatment system must be
removed and the opening filled with cement.

7. The pipes entering the cesspool east of the SPDES
outfall on the north side (the cesspool discoveredby the well
drillers) must be cut off and sealed at the foundati line of
the building, and the pipes from the foundation lin the

cesspool removed.

8. The pipes from the foundation line to the [illegible] outf[illegible] must be removed.

With respect to items II.a. and II.b., it is our understanding that your firm is investigating the us[illegible] of yo[illegible] pretreatment facility as the disposal point for this liquid. Your determination along with supporting documents should b[illegible] submitted to this Department no later than May 15, 1985. Sho[illegible] this course of action not be taken, the pumping out and prope[illegible] removal of this liquid must commence immediately after that d[illegible].

Concerning item II.c., this Department will com[illegible]ce soi[illegible] sampling on 8 May 85 to facilitiate your firm's desi[illegible] to tak[illegible] split samples. Any soil removed prior to receipt of sample results must be considered hazardous waste.

Since your site is also listed on the Inactive Hazardous Waste Disposal Site Registry, further remedial investigations will be required. You will be contacted shortly by [illegible] Region[illegible] Attorney's office concerning an Order on Consent to [illegible] the work.

Sincerely yours,

Philip Barbat[illegible]
Regional Water Engineer

PB:sp
cc: A. Yerman
T. Sanford
J. Scherb
G. Donohue
J. Iannotti
R. Piagione

Appendix 1.1-37

New York State Department of Environmental Conservation

Building #40 SUNY
Stony Brook, NY 11794

Received from
NYSDEC Region 1

Henry G. Williams
Commissioner

July 5, 1985

CERTIFIED - RETURN RECEIPT

Al Gindel
Alsy Manufacturing
270 Duff Avenue
Hicksville, NY 11801

Dear Mr. Gindel:

This department conducted an inspection of your facility on 6/24/86. It was noted that the cleanup work has not yet begun as outlined in our May 6, 1985 letter.

We have also received analytical results of samples taken during our inspection of 5/8/85. The analysis indicates the wastes are hazardous and therefore, should be disposed of as such.

In order to achieve compliance with the Summary Abatement Order dated April 4, 1985, you are hereby requested to complete the following items in addition to the items stated earlier in our letter of May 6, 1985:

1. Remove all liquid wastes from all manholes, catchbasins and leaching pools.

2. Remove all visually contaminated sludge from manholes, catchbasins and leaching pools. To ensure proper cleaning, two additional feet of soil should be excavated and removed beyond the visually detectable contaminated sludge level.

3. All wastes are to be considered hazardous and must be removed by a licensed hauler and disposed of at an approved hazardous waste facility. Please provide the EPA I.D.#'s for the hauler and facility to be used.

4. Disconnect and remove all pipings leading to the manholes, catchbasins and leaching pools.

Please be advised that non-compliance with a summary abatement order could be considered a new violation and appropriate enforcement actions may be initated accordingly. In order to avoid further actions, the above items and those contained in our May 6, 1985 letter should be completed within ten working days from the date of receipt of this letter.

You are requested to notify the department and the NCDH forty-eight hours prior to beginning of the actual cleanup work.

If you have any questions, please advise.

Sincerely yours,

Philip Barbato, P.E.
Regional Water Engineer

PB:DB/sp
Attachment
cc: A. Yerman
D. Banerjee
T. Sanford
G. Donohue
J. Iannotti
R. Piagione
H. Plant

Appendix 1.1-32

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Received from:
Nassau Co. Dept. of Health

Owner or Agent: Levy
Address: Hicksville

Inspector

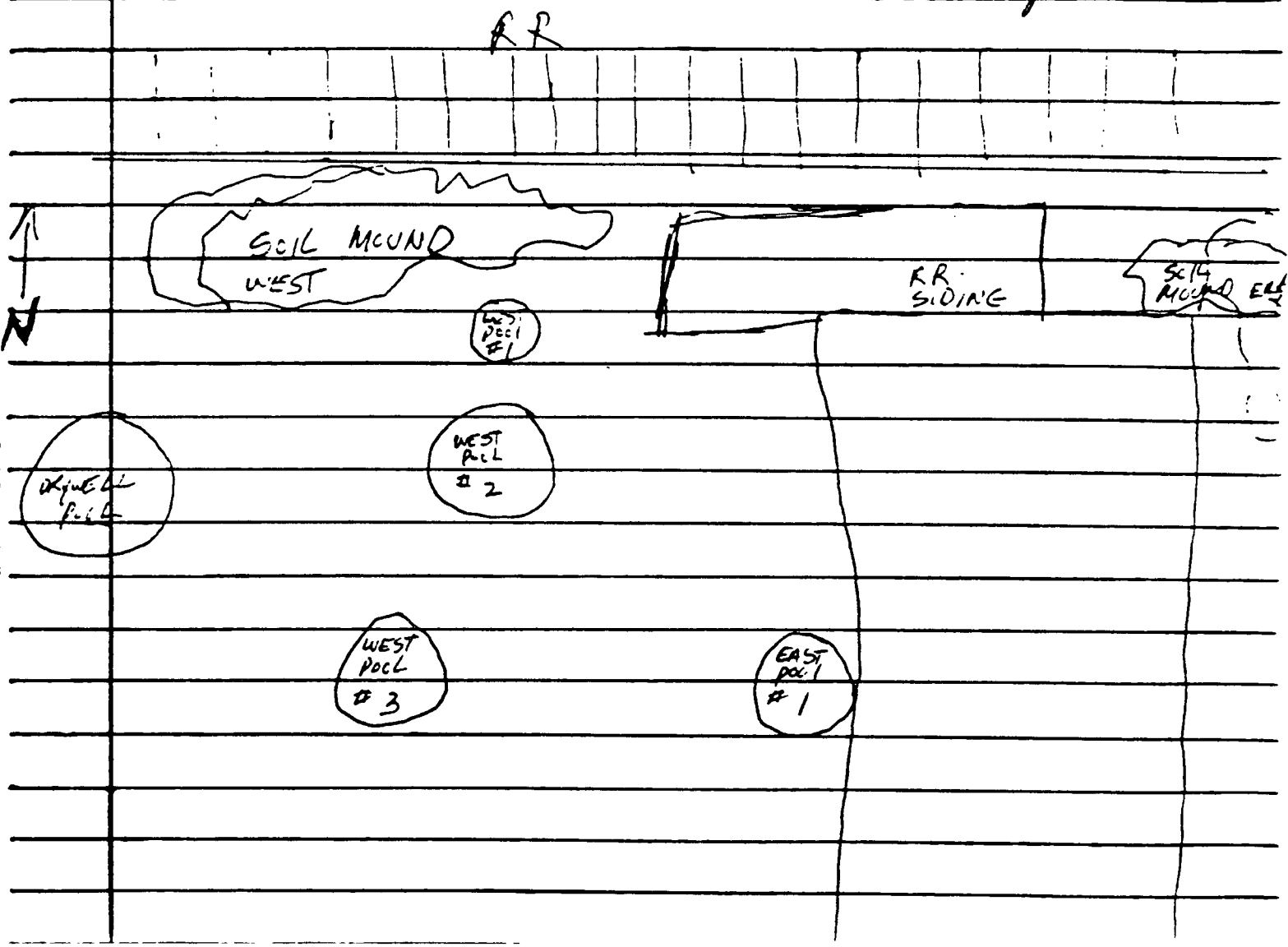
DATE	COMMENTS
	4/12/85 at 10:00 AM rec'd a call from Rocky Raggione, DEC Enforcement Dir., White Plains. As a result of a summary abatement order they served to Alby, Alby has informed them this A.M. that H2M will be on site today, time unknown, to sample seepage and soil and plan to do cleanup next week some time. DEC will have someone on site observing; not sure who but from Region I office. Just letting us know his case was worth to have someone there. Supposedly this operation will have no bearing on our long-term investigation.
	J.J.
4/12/85 (752-9060)	arrived on site with John Cassaturi (Alby) and Kanon S. Iyer (H2M). Kanon was taking water samples from 4 pools. These samples are to be tested for ① metals ② volatile organics. I mentioned that they should test dry well on black-top lot because leaching pools were being pumped into this one at a time. Soil samples were to be taken from soil mound which was topsoil that was scraped from open area on west side of building. Soil was to be taken from another soil pile on East side of building (See Diagram

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent: Alsy
Address: Hicksville

Inspector:

DATE	COMMENTS
4/4/85	Roman Iyer had to leave, he left samples to be taken by employee of Alsy in the presence of Jim Cassaturi and myself no representative from DEC arrived. Sampling started about 10:45 A.M. Alsy employee was to take samples to H2M lab on Rt 110. Al Gendel (owner) stated he received order from DEC to pump all pools dry and remove top soil within 5 days. H2M was sampling to determine how the water and soil was to be disposed.



Appendix 1.1-29

ALSY MFG. INC.
NEW YORK SHOWROOM
11 EAST 26 STREET
NEW YORK, N.Y.
(212)

RECEIVED

April 19, 1985

New York State Dept. of Environmental Conservation
Region I Office
Building 40
SUNY at Stony Brook
Stony Brook, New York 11794

RE: Abatement Order

ATTN: Ms. Joan Scherb

Ms. Scherb;

Pursuant to the Commissioner's Summary Abatement Order, Alsy Manufacturing, Inc. has taken the following actions to comply with this order:

I. Alsy has installed a new pre-treatment system and has received permission to discharge its industrial waste into the Nassau County Sewer System. All authorized discharge outlets have been sealed and discharge of industrial waste into any underground tanks (cesspools, leaching pools, etc.) has ceased.

All of the unauthorized discharge outlets listed in the Commissioner's Abatement Summary paragraph five (5), page three (3) have been permanently removed inside the building and sealed up such that discharge through these outlets is no longer possible.

II. Alsy has already had samples of its underground tanks (cesspools, leaching pools, etc.) taken and analyzed by Holzmacher, McLendon and Murrel (H2M) Consulting Engineers to determine what measures must be taken to remove the contents from the said tanks.

III. Alsy has contracted a licensed professional engineer, Soil Mechanics Drilling Corp., to drill borings for soil samples and install sampling wells for water analysis as per specifications approvoed by the Nassau County Health Dept..

Pending the results of the sample analyses, Alsy will then make arrangements for the contracting of a licensed hazardous waste transporter to insure proper removal, transport and disposal of all soils necessary.

ALSY MFG. INC.
NEW YORK SHOWROOM
15 EAST 26TH STREET
NEW YORK, N.Y.
(212) 72[illegible]

Please find the results of the analysis conducted by Holzmacher, McLendon and Murrel (H2M) as per your consent order dated April 4, 1985. According to analysis that we have sent you, we are awaiting your permission to remove.

If you have any questions or require any further information please contact myself or Mr. John Casaburri at (516)822-5252. Thank You.

Sincerely,

Mr. Alvin Gindel, President
Alsy Manufacturing, Inc.

270 DUFFY AVENUE, HICKSVILLE, N.Y. 11801 (516) 822-5252 FACTORY INFORMATION: (800) 645-4172

H2M
Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 554(

PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ALSY MFG. CO.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - MISCELLANEOUS
COLLECTED BY RRI
DATE COLLECTED - 4/12/85
DATE RECEIVED - 4/12/85

EP TOX METALS

LAB NO.	SAMPLE ID INFORMATION	SELENIUM	SILVER	ALUMINUM	NICKEL	COPPER	ZINC
554815	FIRST PILE N.W.	<20.0 *	<0.02	1.90	6.57	1.07	2.6
554816	PILE #2 EAST	<20.0 *	<0.02	<0.20	<0.02	0.04	0.3

REMARKS - ALL BILLS & REPORTS TO RST

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY * (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
AEC & FECAL STREP (COUNTS/ML)

DATE REPORTED 4/18/

FRANCIS T PURCELL
COUNTY EXECUTIVE

NASSAU COUNTY
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

BOARD OF HEALTH

BRUCE A LISTER
CHAIRMAN
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LAWRENCE RAVICH M D
SAMUEL M GELFAND M D
JOAN L CAEMMERER

JOHN J DOWLING M D M P H
COMMISSIONER

May 1, 1984

Received from:
Nassau Co. Dept. of Health

Harold D. Berger, Director
Region I - New York State
Department of Environmental Conservation
SUNY - Building 40
Stony Brook, New York 11794

Re: Alsy Mfg. Co., Hicksville, N.Y.
Violation of SPDES Permit NY0102539

Dear Mr. Berger:

On February 21, 22 and 27, 1984 NYSDEC and NCHD inspectors observed Alsy Manufacturing Company in Hicksville discharging industrial wastewater from points not covered in their SPDES Permit. Four unpermitted discharge points were noted as well as possible contamination of the ground by chemical wastes including paint.

As a result, this matter is being referred for appropriate legal action. Details of our inspections are provided in the attached "Data Supporting Request for Legal Action."

If you have any questions, please contact our Bureau of Land Resources Management at 535-2406.

Sincerely yours,

John J. Dowling, M.D., M.P.H.
Commissioner

JJD:HS:sp

cc: R. Cacciatore, Commerce & Industry
Denis Dillon, NCDA (w/enc.)
G. Cusick, Hicksville W.D.
J. Ehrenfeld, Alsy Mfg. Co.

Appendix 1.1-24

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

JOHN J. DOWLING, M.D., M.P.H.
Commissioner

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

FRANCIS T. PURCELL
County Executive

September 27, 1984

Dennis W. Cole
New York State Department
of Environmental Conservation
SUNY, Building 40 - Room 219
Stony Brook, N.Y. 11794

Re: Alsy Mfg. Co.
SPDES NY 0102539

Dear Mr. Cole:

This office has reviewed the draft renewal SPDES Permit for this facility.

We object to the renewal of this permit for the following reasons:

1. Alsy is currently in violation of the following regulation - ECL 17-0803; ECL 17-0505; ECL 17-0501; Part II Sec. 5 & 9 of the SPDES Permit. These violations were outlined in a proposed consent order on July 20, 1984 by A. Yerman.

2. The draft renewal does not address these existing violations.

3. Public sewers are available for this discharge. Alsy is required by the Nassau County Public Health Ordinance to connect the discharge to the sewer by May 1985. We feel that any permit issued in this situation should not run beyond the mandatory sewer connection date. This was recently done in the case of Depew Mfg. Co., also in Hicksville.

Please contact this office at 535-2406 if you require additional information.

Very truly yours,

Howard Schaefer

Howard Schaefer
Bureau of Land Resources
Management

HS:no

CC: G. Robin, NYSDEC

Appendix 1.1-34

New York State Department of Environmental Conservation

MEMORANDUM

TO: John E. Iannotti, Supervisor, Eastern Remedial Section
FROM: Richard G. Torrey, Eastern Remedial Section
SUBJECT: ALSY, Hicksville, Long Island, Region 1
DATE: May 29, 1985

Received from NYSDEC Region 1

This memo will bring you up to date on the above facility. We have discussed some of the items verbally.

On May 1, 1985 I attended a meeting on ALSY at the request of Phil Barbato, Region 1, Water Engineer. This meeting was held at the Nassau County Health Department Offices in Mineola. The subject of the meeting was the Summary Abatement Order for the facility, (a list of attendees is attached) and how it would be handled. After discussion, four points were agreed on:

1. The pits could be pumped through ALSY's new pretreatment facility.

2. A joint inspection would be held May 2nd 7 to check the corrections required inside the buildings.

3. Rocky Piaggione of DEE, White Plains Office, would contact the AG's Office and request no action on their part against the site at this time.

4. The Department (DEC) would sample the soil and other leaching pits on site for E.P. Toxicity, total phenols, volatile, heavy metal, and any other contaminant found at the site in previous samples.

In addition to the above, I am to coordinate with all parties, the coverage at the site during any remedial action.

On May 2nd the joint inspection of the facility took place. Bill O'Brien, Region 1, conducted this as he was familiar with the discharge points. It appeared all illegal discharges had been eliminated.

At Phil's request I asked Jerry Rider to do a joint RCRA inspection of the site.

The points to be sampled were located today also. The sampling was conducted on May 8th, with Terri Gerrish of DEE, White Plains, and Bill O'Brien assisting. There were six (6) water samples, and eight (8) soil samples obtained and shipped to Erco Labs in Mass. A chain of custody was used and the samples were split with H_2M, ALSY's representative.

Received from
NYSDEC Region 1

The week of May 20th, three (3) leaching pits (W1, W2, W3) and one catch basin were pumped out and treated in the ALSY pretreatment plant.

On May 22nd, I found leaching pits, pits W-2 and W3, with large amounts of water in them which would necessitate pumping them out again.

It was decided to test the roof drains with dye and water to determine if the water in these pits came from the heavy rain on May 21st. A roof drain from the old building was found to be still connected to the pits. The line from the building to the pits was dug up, cut off and plugged.

The pumping and treatment of the leaching pits was finished on May 25th.

Removal of the pits and contaminated soil will start when the sample results are received. I will coordinate this with the Region and NCHD.

Attachment
RGT:ks
cc: P. Barbato, Region 1
B. O'Brien, Region 1
Ted Sanford, Region 1

D-91

SAMPLES COLLECTED BY NYSDEC
at Alsy Mfg. Co., 270 Duffy Ave.
Hicksville on February 21, 1984

Sample Number	Location	Constituents Found
E-184-207-01	First Industrial Leaching Pool Received from: Nassau Co. Dept. of Health	1,1 Dichloroethane 1,1,1 Trichloroethane Toluene Ethylbenzene Copper Lead Nickel Zinc
E-184-207-02	Plating Line Overflow	1,1 Dichloroethane 1,1,1 Trichloroethane Toluene Ethylbenzene Arsenic Copper Lead Nickel Zinc
E-184-207-03	Second Industrial Leaching Pool	Copper Lead Nickel
E-184-207-04	Sanitary Leaching Pool	Lead Toluene
E-184-207-05	Ditch Near Paint Shop	Toluene Ethylbenzene
E-184-207-06	Paint Shop Discharge	Methylene Chloride
E-184-207-07	Pipe on West Side of Cycle II	Cadmium Chromium Lead
E-184-207-08	Pipe on North Side of Cycle II	Cadmium Chromium Lead

On February 22, 1984, we returned to the site and went around the north side of the building and took several pictures, all discharges were as on the previous day. When we were near the paint area we were discovered by a plant employee. We then left the site. We meet Robert Willis of the NCDH in front of the building and entered the plant for an inspection. Mr Ehrenfeld took us through the plant. We traced the pipe we previously were told was a roof drain to the area between the plating tanks and the wall. Mr. Ehrenfeld denied telling us it was a roof drain and stated it was an overflow from the trough surrounding the plating area. He also stated it came from a submersible pump in the trough and was treated before discharge. However, this did not seem possible as the pipe appears to simply go from the pump in the trough up to the roof, along the rafters and out the north wall. We then took Mr. Ehrenfeld out and showed him what we had found outside the previous day.

The pipe from the plating area was not discharging. The double pipes on the west wall showed a whitish liquid discharge from one pipe. He stated that these other discharges were from the area occupied by the Cycle II Division. He then took us into this area and introduced us to Joseph Stevens who is Vice President of the Cycle II Division. Mr. Stevens took us through his area. The pipes with the whitish material below them all appear to be hooked into two sinks, which are used to clean up rags and the workers' hands in an area where brass is used to decorate lamp bases. We were told the reason these discharges simply went through the wall, was that they were told to do so previously by a consulting engineer. The small pipe coming out the window discharing hot water is a bleed from the heating system. The pipe discharging in the paint area is also a drain from two sinks in a paint shop, but it was not made clear to us what is washed. At the time we made the inspection they were washing glass tubes for lamps with soap and water. When showed the mess outside the paint shop and the waste paint drums, Mr. Stevens said the mess would be cleaned up and told a worker to cap the drums. At this time we had noticed that someone tried to clean up the excess paint which was on the ground 20 minutes prior to this point. Mr. Stevens claimed to have no knowledge of who tried to clean up the paint mess, and he also stated he had no idea the leaching pool was overflowing or who dug the trench. However, he did confirm it was sanitary waste. Mr. Ehrenfeld then showed us an area on the south side of the building where waste is stored until removed by a scavenger. The area was not bermed, some drums were in a fenced enclosure, while others were not. Most of the approximately 10-12 drums appeared to be properly labeled. We were told that pickups occur monthly (Do they need a Part 360 Permit?) The area of the drum storage showed a greenish stain on the asphalt of a copper as nickle oxide color and several stains of varying colors which appeared to be recent. There was another heating system bleed in this area, but the puddle below it was of an opaque, light green color as described above.

Subsequently a discussion was held with Mr. Ehrenfeld and Mr. Stevens in which the following was pointed out that:

1. The overflowing cesspool must be stopped and corrected.

2. The paint waste should not be poured on the ground and that the drums must be kept covered. It was also pointed out that the area should be bermed. When questioned as to how these drums were removed to the drum storage area without spilling, Mr. Stevens stated he didn't know. The drums had two 3 to 4" holes cut in the top and were filled to within a couple of inches of the top.

3. The sink drains could not simply run through a wall and discharge on the ground. They had to be properly connected to a leaching pool.

After leaving Mr Ehrenfled and Mr. Stevens, we went back to the north side of the building with Mr. Willis and took further photographs.

On February 24, 1984 we returned to the site to observe if any progress had been made and to take additional photographs. Mr. Ehrenfeld told us that the overflowing sanitary pool had been pumped out and that he had contracted for the installation of a second pool. He also stated that he was taking bids for either connecting the plating shop overflow to the existing SPDES pools or adding another pool. When questioned about the treatment of the plating discharge, Mr. Ehrenfeld stated that the discharge was treated in tanks in the plating area before it entered the trough in the floor.

We then went around back and observed discharge from the pipe from the plating area. It appeared that a truck had been driven across the back yard to the area of the overflowing sanitary pool. The cover of the sanitary pool was [illegible] under water, and the well defined ditch of the previous days had been obliterated. There was now a large irregularly shaped flooded area on the north side of the building. It appeared that the sanitary pool was still overflowing as bubbles were rising from the partially ajar lid, but it could not positively determined if it was the source of the water as it had rained the previous night and was still raining while we were there. The ditch itself was partially filled in down to the area of the paint shop. The pipe from the paint shop was still discharging. The ditch from this pipe north to the main ditch was still filled and was approximately four feet of the main ditch east of this. Beyond this point, the main ditch was filled in, and concrete rubble had been used to block it at the top of the embankment above the railroad siding.

Appendix 1.5-3
Page 1 of 2

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OPEN-FILE Report 82-163

Plate 1A West

WATER TABLE ON LONG ISLAND, NEW YORK, MARCH 1979

by

Cynthia D. Donaldson and Edward J. Koszalka

Each year the hydrologic situation on Long Island is reviewed as new water-level data are obtained. March 1979 water-level measurements from 564 wells across the island were used to prepare this map. Measurements were made by the wetted tape method to the nearest hundredth of a foot. The water-table configuration has changed little since 1975 (Nakao and Erlichman, 1978) except for increases as great at 5 feet in central Nassau County and 9 feet in central Suffolk County.

The general configuration of the water table is an east-west mound that coincides with the glacial moraine along the center of the island, with an isolated high in central Nassau County and another in central Suffolk County. Northwestern Nassau County and the central part of the southern peninsula of eastern Suffolk County also have local highs. These highs are a product of the low hydraulic conductivity of the geologic units. The lowest recorded water level on the island in March 1979 was a depression in eastern Queens County at 4 feet below the National Geodetic Vertical Datum of 1929 (mean sea level); the highest recorded water level was 91 feet above the datum in central Nassau County. The 100-foot contour in northwest Nassau County represents the probable water level around the site of an abandoned well that consistently had water levels in excess of 115 feet above the datum.

This study was done in cooperation with the Nassau County Department of Public Works, Suffolk County Department of Health Services, Suffolk County Water Authority, and the New York State Department of Environmental Conservation.

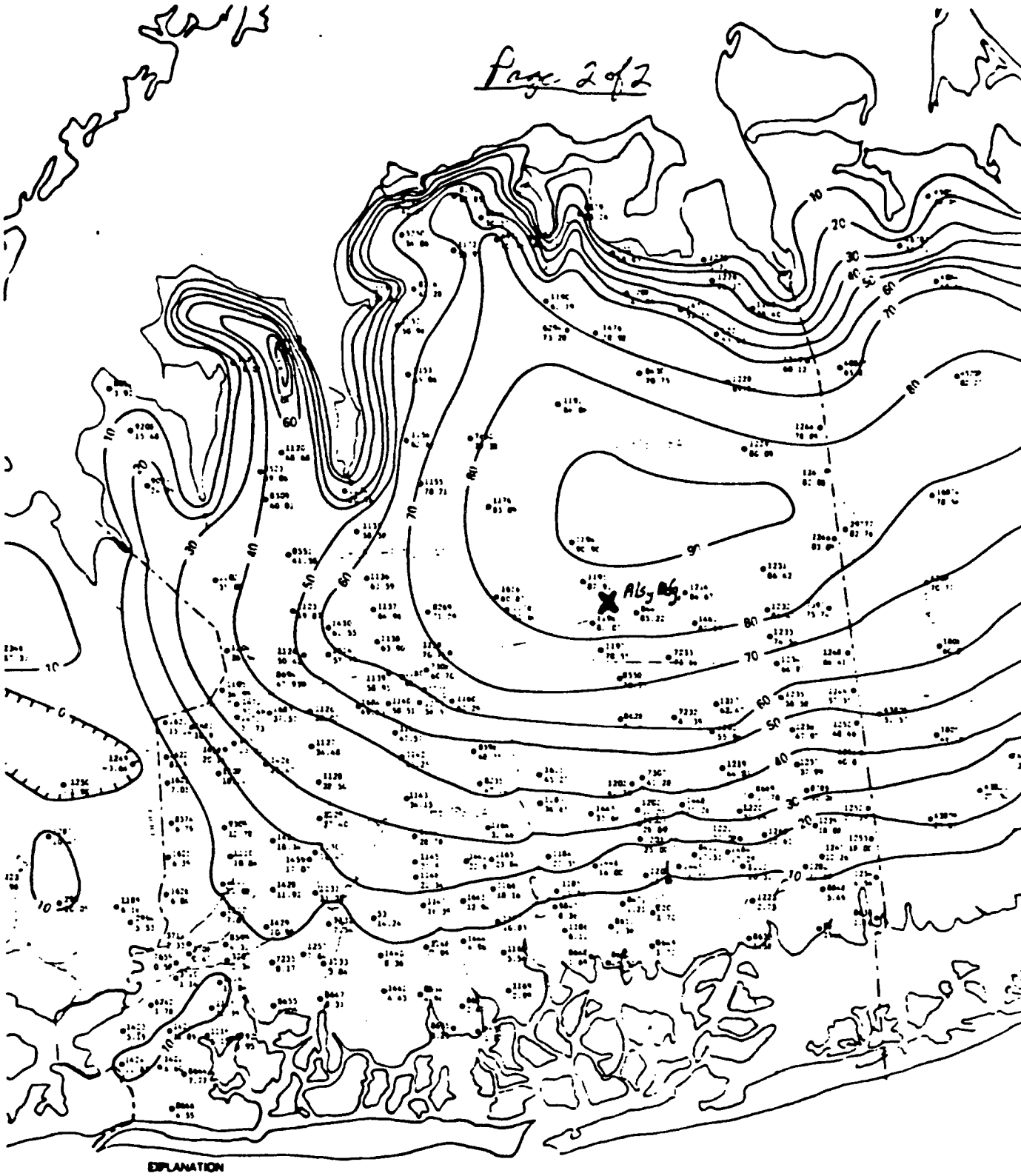
REFERENCES

Donaldson, C. D., and Koszalka, E. J., 1982a, Potentiometric surface of the Magothy aquifer, Long Island, New York, in March 1979: U.S. Geological Survey Open-File Report 82-160, 2 sheets.

_____ 1982b, Potentiometric surface of the Lloyd aquifer, Long Island, New York, in January 1979: U.S. Geological Survey Open-File Report 82-162, 2 sheets.

Nakao, J. H., and Erlichman, F. R., 1978, The water table on Long

Page 2 of 2



EXPLANATION

Observation well and number. Prefixes K, Q, N, and S for Kings, Queens, Nassau, and Suffolk Counties, respectively are not shown. Lower number is altitude of potentiometric surface, in feet above or below (-) NGVD of 1929.

—— 10 —— Contour on the water. Contour interval 10 and 20 feet. Hachures indicate depressions.

WATER TABLE ON LONG ISLAND, NEW YORK, MARCH 1979

0 1 2 3 4 5 MILES

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
125 BAYLIS ROAD, SUITE 140, MELVILLE, N.Y. 11747 • 516-752-9060

July 18, 1984

Mr. Howard Schaefer
Bureau of Land Resources Management
Nassau County Department of Health
240 Old Country Road
Mineola, New York 11501

Re: Alsy Manufacturing, Inc.
Hicksville, New York

Dear Mr. Schaefer:

On behalf of Alsy Manufacturing, Inc., we transmit herewith two (2) copies of our engineering report entitled "Engineering Study and Report - Industrial Wastewater Collection, Treatment and Disposal" for your review.

The report, which has been prepared in accordance with your request, discusses the existing wastewater treatment operations at Alsy Manufacturing, and presents various recommendations for modifications and improvements to the wastewater treatment system. Implementation of the recommendations would enable Alsy Manufacturing, Inc. to meet all groundwater discharge standards, in compliance with the State Pollution Discharge Elimination System (SPDES) permit.

Alsy Manufacturing is in the process of implementing the various recommendations presented in this report. It is anticipated that the modifications to the wastewater treatment system will be completed by August 31, 1984.

Should you have any questions or comments regarding this report, please contact our office.

Very truly yours,

HOLZMACHER, McLENDON & MURRELL, P.C.

Raman S. Iyer

RSI:mad
Enclosures

cc: Mr. Larry Kreisler (Alsy Mfg., Inc.)
Mr. Al Gindel (Alsy Mfg., Inc.)

ENGINEERING STUDY AND REPORT
INDUSTRIAL WASTEWATER COLLECTION, TREATMENT AND DISPOSAL

ALSY MANUFACTURING, INC.
HICKSVILLE, NEW YORK

MAY 1984

SCOPE

This study and report has been authorized by Alsy Manufacturing, Inc., at the request of the Nassau County Department of Health, to study the industrial wastewater collection, treatment and disposal methods at the Alsy Manufacturing facility in Hicksville, New York. This report presents recommendations for improvements/modifications at the existing wastewater treatment system to enable Alsy Manufacturing, Inc. to meet all groundwater discharge standards, in compliance with their State Pollution Discharge Elimination System (SPDES) Permit.

This report has been divided into four sections. They are:

1. Existing Conditions
2. Wastewater Monitoring
3. Conclusions
4. Recommendations

1.0 EXISTING CONDITIONS

The metal finishing operations at Alsy Manufacturing are the major sources of industrial wastewater which requires treatment prior to discharge. The metal finishing operations include: Alkali and Acid Cleaning, Brass Plating, Nickel Plating and several rinses. See Table 1, "Existing Conditions - Wastewater Generation and Disposal."

Current industrial wastewater discharges from Alsy Manufacturing average 24 gallons per minute (gpm), or 11,500 gallons per day (gpd), based on 8 hours of operation/day. Out of this, 10 gpm or 5,000 gpd of rinse water containing cyanide, copper, zinc and nickel (generated from tanks 14, 15, 21, 24 and 25), are treated in the existing wastewater treatment system and discharged into the ground via on-site industrial wastewater leaching pools. This discharge is permitted under a SPDES Permit (No. NY 0102539), issued by the New York State Department of Environmental Conservation (NYSDEC). Wastewater from tanks 3, 5, 6, 8, 9 and 28, which are primarily rinse waters from cleaning operations, bypass the treatment system and are discharged via on-site storm water leaching pools.

The existing wastewater treatment system at Alsy involves cyanide destruction, metal precipitation, coagulation and flocculation, gravity settling and pH adjustment.

Wastewaters from rinse tanks 14, 15, 21, 24 and 25 are discharged to a collection tank where sodium hypochlorite (NaOCl) is

TABLE 1

(Alsy Manufacturing, Inc.)

EXISTING CONDITIONS - WASTEWATER GENERATION & DISCHARGE

May 1984

NK O	PROCESS	TANK CONTENTS	TANK VOLUME gals.	RINSE WATER FLOW gpm	WASTE FLOW gpd	DISCHARGE POINT
	Cleaning	Alkaline Soak Cleaner	475	-	-	No Discharge
	Cleaning	Alkaline Soak Cleaner	600	-	-	No Discharge
	Rinse	Continuous Water Rinse	-	2	960	Stormwater Leaching Pools
	Cleaning	Alkaline Electro Cleaner	600	-	-	No Discharge
	Rinse	Continuous Water Rinse	-	3	1440	Stormwater Leaching Pools
	Rinse	Continuous Water Rinse	-	2	900	Stormwater Leaching Pools
7	Cleaning	Acid (10% Hcl) Cleaner	600	-	-	No Discharge
3	Rinse	Continuous Water Rinse	-	2	960	Stormwater Leaching Pools
9	Rinse	Continuous Water Rinse	-	3	1440	Stormwater Leaching Pools

TANK NO.	PROCESS	TANKS CONTENTS	TANK VOLUME gals.	RINSE WATER FLOW gpm	WASTE FLOW gpd	DISCHARGE POINT
10	Brass Plating	Copper Cyanide	1200	-	-	No Discharge
11	Brass Plating	Zinc Cyanide Sodium Cyanide	1200	-	-	No Discharge
12	Brass Plating	Ammonia & Brass Additive	1200	-	-	No Discharge*
13	Rinse	Static Water Rinse	600	-	-	No Discharge*
14	Rinse	Continuous Water Rinse	-	2	960	WWT and Industrial Leaching Pools
15	Rinse	Continuous Water Rinse	-	2	960	WWT and Industrial Leaching Pools
16	Electro Black	Electro Black	425	-	-	No Discharge
17	Rinse	Continuous Water Rinse	-	-	-	No Discharge
18	Anti-Corrosion Bath	Anti-Corrosion Solution	600	-	-	No Discharge
19	Nickel Plating	Nickel Sulfate, Nickel Chloride Boric Acid Brightners & Additives	1200	-	-	No Discharge
20	Rinse	Static water Rinse	600	-	-	No Discharge*
21	Rinse	Continuous Water Rinse	-	2	960	WWT and Industrial Leaching Pools

TANK NO.	PROCESS	TANKS CONTENTS	TANK VOLUME gals.	RINSE WATER FLOW gpm	WASTE FLOW gpd	DISCHARGE POINT
22	Brass Plating	Copper Cyanide Zinc Cyanide Sodium Cyanide & Brass Additive	600	-	-	No Discharge
23	Rinse	Static Water Rinse	-	-	-	No Discharge*
24	Rinse	Continuous Hot Water Rinse	-	2	960	WWT and Industrial Leaching Pools
25	Rinse	Continuous Water Rinse	-	2	960	WWT and Industrial Leaching Pools
26	Cleaning	Acetic Acid	200	-	-	No Discharge
27	Anti-Corrosion Bath	Anti-Corrosion Solution	200	-	-	No Discharge
28	Rinse	Continuous Water Rinse	-	1	480	Stormwater Leaching Pools
29	Cleaner	Water-Lacquer Mixture	200	-	-	No Discharge
30	Paint Dip	Paint	200	-	-	No Discharge

*Static rinse water is used to make up process baths.

added. There are no controls for the addition of sodium hypochlorite. The chemical is fed at a constant rate using a metering pump. Agitation in the collection tank is accomplished by a mechanical mixer. From the collection tank, wastewater flows by gravity to the cyanide destruction tank where caustic soda (NaOH) is added by means of a metering pump. The addition of caustic soda is controlled by a pH controller which is set to maintain a pH above 10.5. However, the operators of the treatment system indicated that the wastewater coming into the cyanide destruction tank is generally above pH 11.0. This is apparently due to the addition of sodium hypochlorite in the collection tank. Alum (aluminum sulfate) is also added at the cyanide destruction tank. Alum is fed at a constant rate using a metering pump.

From the cyanide destruction tank, the wastewater flows by gravity to a collection sump, and pumped at approximately 20-25 gpm through a flocculation tank. The flocculation tank is baffled and equipped with slow speed flocculator paddles in its first compartment. A polyelectrolyte solution is added in the first compartment using a metering pump. At the time of this study, the metering pump was not functioning and polyelectrolyte was added manually.

From the flocculating tank, the wastewater flows by gravity to the gravity settling tank which is a compartmentalized square tank (5'x5') with a conical bottom. Sludge settles at the conical bottom. A sludge draw-off pump is provided at the bottom of the settler to remove the sludge. During this review, it was

Results of the monitoring program are presented in Table 2. Because the municipal sewers are currently available for discharge, the results are compared both to SPDES effluent limits and Nassau County sewer discharge standards.

From Table 2, it can be seen that the treated wastewater failed to meet the groundwater discharge standards for aluminum, copper, cyanide, total dissolved solids and total nitrogen. If the treated wastewater was discharged into the Nassau County sewer system, it would have exceeded the discharge standards for aluminum, copper, zinc and cyanide.

The wastewater effluent samples were also analyzed for various volatile halogenated and volatile non-halogenated organics. The results, as shown in Lab Reports 452276, 452277, 452278 and 452279, indicate no appreciable quantities of volatile halogenated or non-halogenated organics.

3.0 CONCLUSIONS

Based on the results of the monitoring program and our evaluation of the treatment system operations, the following conclusions are drawn regarding the performance of the existing wastewater treatment system with respect to meeting the current discharge standards:

Aluminum: It is interesting to note that although aluminum was not detected in the influent to the waterwater treatment system, the effluent shows aluminum concentrations of 13-15 mg/l. This is primarily due to the alum (aluminum sulfate) added in the treatment system.

TABLE - 2

ALSY MANUFACTURING, INC.

MAY 1984

WASTEWATER MONITORING STUDY RESULTS

DATE	SAMPLE I.D.	Al	Ar	Cu	Fe	Pb	Ni	Zn	CN	TDS	pH	TOT-N	TKN	NH_3-N	NO_3-N	NO_2-N	Oil & Grease	MBAS
	SPDES Stds. (mg/l)	2.0	0.05	1.0	0.60	0.05	2.0	5.0	0.40	1000	6.5-8.5 Units	10.0	--	--	—	—	15.0	1.0
	Nassau County Sewer Stds. (mg/l)	2.0	0.10	0.40	4.0	0.10	2.0	0.6	0.80	--	5.5-9.5 Units	—	—	—	—	—	100.0	—
2/8/84	Influent (6 hr. composite)	<0.2	85 ppb	32.0	0.08	4.0 ppb	3.17	4.85	51.0	254	7.4	—	—	—	—	—	—	—
2/8/84	Effluent (6 hr. composite)	13.5	39 ppb	7.4	0.25	<2.0 ppb	0.97	1.45	0.10	1860	6.9	—	—	—	—	—	—	—
2/9/84	Influent (6 hr. composite)	<0.2	58 ppb	42.0	0.10	9.0 ppb	9.39	5.82	66.0	323	7.4	31.0	27.0	5.4	4.0	—	—	—
2/9/84	Effluent (6 hr. composite)	14.3	23 ppb	9.42	0.16	<4.0 ppb	1.92	1.06	5.86	1650	7.1	21.0	17.3	14.9	3.7	--	—	--
2/8/84	Rinse Water (6 hr. composite)	—	—	—	—	--	—	—	—	--	—	12.5	8.6	2.4	3.9	<0.10	—	0.69
2/9/84	Rinse Water (6 hr. composite)	--	—	--	—	—	—	—	—	--	—	6.2	3.0	1.5	3.2	<0.10	—	<0.04
3/15/84	Rinse Water (4 hr. composite)	0.2	<2 ppb	0.46	1.90	112 ppb	0.30	0.61	0.10	217	7.4	—	--	—	—	—	<5.0	<0.04
3/16/84	Rinse Water (6 hr. composite)	0.2	<2 ppb	0.37	0.98	47.5 ppb	0.30	0.42	0.15	171	7.6	0.13	—	—	—	—	—	0.13

(1) All results are presented in mg/l (ppm) unless otherwise noted.

(2) Effluent samples which exceeded SPDES discharge standards are underlined.

Copper: Presently, the treatment system is able to remove approximately 77 percent of the copper in the influent wastewater. However, it still fails to meet both the groundwater and Nassau County sewer discharge standards. Copper precipitates out as copper hydroxide at pH 9.2. The insufficient removal of copper can be attributed to:

a) Improper pH condition in the precipitation tank.

b) Insufficient addition of polyelectrolyte caused by a malfunction of the metering pump.

c) Hydraulic overloading of the gravity settler caused by intermittently pumping excessive volumes of wastewater.

d) Insufficient removal of sludge from the gravity settler.

Cyanide: The monitoring data presented in Table 2 for 2/8/84 shows that the existing wastewater treatment system is capable of treating cyanide wastes to meet both SPDES and Nassau County sewer discharge standards. However, on 2/9/84 the treated wastewater failed to meet the discharge standards.

Cyanide is best destroyed in two steps. The first step is the oxidation of cyanide (CN) to less toxic cyanate (CNO) by the alkaline chlorination (achieved by adding sodium hypochlorite) at pH 10.5. The second step is the oxidation of cyanate to nitrogen (N_2) and carbon dioxide (CO_2) by alkaline chlorination at pH 8.0 or with increased retention time at pH 9-9.5.

The failure of the existing treatment system to meet the discharge standards for cyanide can be attributed to:

a) Improper addition and control of sodium hypochlorite.

b) Improper pH conditions.

c) Hydraulic overloading of the system.

Zinc: The concentration of zinc in the treated wastewater is within the current SPDES discharge standards. However, it will fail to meet the more stringent Nassau County sewer discharge standard of 0.6 mg/l.

Zinc can be precipitated as zinc hydroxide at pH 9.4.

Total Dissolved Solids and Total Nitrogen: As shown in Table 2, the concentration of total dissolved solids in the treated effluent is higher than the influent. This is primarily due to the by-products of the chemical waste treatment which forms water soluble salts (e.g., the addition of sodium hypochlorite generates sodium chloride salt).

Total nitrogen is caused by the addition of ammonia in some of the process baths (e.g., ammonia is added to the brass plating bath).

Since the relatively clean rinse waters from the cleaner operations contain very little TDS and total nitrogen, the combined discharge of cleaner rinse waters and treated plating rinse waters should meet discharge standards for both contaminants.

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4.0 RECOMMENDATIONS

So as to meet the current SPDES and Nassau County sewer discharge standards, the existing wastewater treatment system requires certain modifications. These recommended modifications are discussed below:

(a) In order to reduce the hydraulic overloading of the wastewater treatment systems, rinse water flow rates at rinse tanks 14, 15, 21, 24 and 25 should be reduced by adding flow restrictors at each tank. Rinse water flow rates at the first stage rinse tanks (14, 21 and 24) should be reduced from 2.0 to 1.5 GPM. Rinse water flow rates at the second stage rinse tanks (15 and 25) should be reduced from 2.0 to 1.0 GPM. Rinse water flow rates at rinse tank 28 can remain at 1.0 GPM. This will reduce the total rinse water flow from the plating operations to 7.5 GPM (3600 gpd), resulting in an overall flow reduction of approximately 30 percent at the treatment system.

If the quality of the finished product is adversely affected by the reduction in the rinse water flow, multi-stage countercurrent rinse stations should be considered. If multi-stage countercurrent rinse stations cannot be installed, the rinse water flow rates may have to be increased to the desired levels. However, the existing wastewater system, expecially the gravity settler, may not be able to handle the increased hydraulic loading and will require modifications/replacement.

Rinse water flow rates at the cleaning operations tanks 3, 5, 6, 8 and 9 can be maintained at their present levels.

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(b) So that the hydraulic loading of the wastewater treatment system can be better controlled, we recommend that the collection tank be fitted with an automatic transfer pump. The transfer pump will enable the operator to maintain a constant wastewater flow through the system, thereby preventing any hydraulic overloading and making the addition of wastewater treatment chemicals, such as polyelectrolyte, more efficient. The wastewater collection tank should be equipped with high level and low level switches which will activate the transfer pump. The suction and discharge line of the transfer pump should be equipped with suitable sized gate valves.

(c) In order to avoid the formation of toxic cyanogen gas (which may be produced under acidic conditions), the wastewater in the collection tank must be maintained at or above pH 10.5, by adding caustic soda. We recommend that a pH control system be installed at the collection tank to control the addition of caustic soda.

(d) From the collection tank, the wastewater will be transferred to the cyanide destruction tank, where cyanide will be oxidized to cyanate by the addition of 15 percent sodium hypochlorite (NaOCl) at pH 10.5. We recommend that an ORP (Oxidation Reduction Potential) Controller be installed at the cyanide destruction tank to control the addition of sodium hypochlorite. The ORP of the wastewater should be maintained at +250 mv. The addition of NaOCl should bring the wastewater pH to the optimum level, eliminating the need for separate caustic addition. The

pH of the wastewater in this tank should be manually tested periodically using a portable pH meter.

(e) From the cyanide destruction tank, the wastewater will flow by gravity to the precipitation tank. In the first compartment of the precipitation tank, the pH of the wastewater should be maintained between 9.2 and 9.5 by adding sulfuric acid to precipitate the heavy metals, such as copper, nickel and zinc as their respective hydroxides. We recommend that the addition of sulfuric acid be controlled by an automated pH controller. In addition to this, sufficient quantities of sodium hypochlorite should also be added to the precipitation tank to maintain an ORP of +250 mv in the wastewater. Sodium hypochlorite should be added by means of a suitable metering pump. The ORP should be measured periodically using the portable ORP meter. The addition of sodium hypochlorite will oxidize the cyanate (CNO^-) to nitrogen (N_2) and carbon dioxide (CO_2) gases.

(f) We recommend that the polyelectrolyte presently used (Floculite 551) be continued. Polyelectrolyte should be added to the wastewater at the last compartment of the precipitation tank, before the wastewater enters the gravity settler. A suitable mechanical mixer should be installed in this compartment to provide flash-mixing of the polyelectrolyte. We recommend a polymer application rate of 4 mgs per liter of wastewater.

(g) If proper flocculation and settling of solids is not achieved in the gravity settler, then it is recommended that the use of Floculite 551 be discontinued and instead GWP-26-Floculite, which is supplied by the same manufacturer, be used.

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(h) In order to properly prepare the polyelectrolyte stock solution, we recommend that a new polyelectrolyte preparation system be installed. This system should consist of a 55-gallon polyethylene tank, equipped with a mechanical mixer and a suitable metering pump to transfer the polyelectrolyte stock solution to the wastewater.

The polyelectrolyte stock solution should be prepared by adding 1 liter of the Floculite 551 to 50 gallons of water. The stock solution should be added continuously to the last compartment of the precipitation tank at an approximate rate of 0.5 gallons/hour.

(i) So as to eliminate the excess aluminum present in the wastewater, we recommend that the addition of alum (aluminum sulfate) in the cyanide destruction tank be discontinued.

(j) The wastewater, after flash mixing with polyelectrolyte, will flow to the gravity settling tank. In order to increase the flocculation of the precipitated particles, we recommend that the flocculating paddles in the precipitation tank be relocated to the first compartment in the gravity settling tank.

The efficiency of a settling tank depends on the hydraulic loading and the sludge removal rates. The hydraulic loading will be controlled by the wastewater transfer pump installed in the collection tank. In order to prevent carryover of sludge in the final wastewater, the sludge settled at the bottom of the settling tank should be removed as frequently as possible, by using the sludge removal pump.

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The sludge should be dewatered in the existing sludge dewatering system and accumulated in drums or suitable containers and disposed of off-site by a licensed industrial waste scavenger. The filtrate should be transferred back to the collection tank.

(k) The cleaner rinse waters are presently collected in a sump and discharged by pumping into on-site storm water leaching pools. Since the existing SPDES permit does not allow discharge of wastewater through storm water leaching pools, discontinue this practice and repipe the pump discharge such that it flows into the final neutralization tank. The relatively clean rinse waters from the cleaner operations should not require treatment. Clear wastewater (7.5 GPM) from the gravity settling tank will flow to the final neutralization tank, where it will be mixed with the rinse waters from the cleaner operations (13 GPM). Sulfuric acid (H_2SO_4) should be used to adjust the waterwater's pH to between 7.0 and 8.0. We recommend that a pH control system be installed at the final neutralization tank to control the addition of sulfuric acid. Neutralized effluent should be discharged via the existing industrial wastewater leaching pools.

(l) The existing wastewater treatment tanks are in disrepair and should be cleaned, painted and epoxy coated.

(m) Since the Nassau County sewer system is available, it is recommended that Alsy Manufacturing, Inc. should apply to the Nassau County Department of Public Works for a special sewer discharge permit.

(n) During our study, no information was available regarding the management of various spent process chemistry. It is recommended that spent cleaner solutions, such as alkali and acid cleaners, be collected in holding tanks and fed to the wastewater treatment system on a controlled basis. Other spent process solutions, such as cyanide baths, should be collected in suitable containers such as drums and disposed of off-site via licensed industrial waste scavengers. Proper procedures involved in the disposal of hazardous wastes, such as manifesting, proper containerization of the wastes, labeling of containers, etc., must be followed.

SUMMARY

Upon implementing the recommended modifications to the existing wastewater treatment system, the wastewater discharged from the treatment system (admixture of treated rinse water and the untreated cleaner rinses) should meet the current SPDES and the Nassau County sewer discharge standards.

On the south side of the ditch, at the top of the embankment, it appeared that white paint had been poured on the ground and vegetation. This paint spill had not been observed in previous inspections. The railroad siding area was still flooded. The waste paint drums had been removed from the outside of the paint shop. Sections of pipe that had previously been scattered around the north side of the building were now lined up on the ground from the paint shop discharge pipe to the embankment above the railroad siding. It appeared as if they intend to pipe this discharge to the siding area.

Robert Gillo
Engineering Technician

William O'Brien
Engineering Technician

Facility name: Alsy Manufacturing

Location: Town of Oyster Bay, Nassau County, New York

EPA Region: I

Person(s) in charge of the facility: Mr. Alvin Gindel, President

270 Duffy Avenue

Hicksville, NY 11801

Name of Reviewer: EA Science and Technology Date: 25 November 1986

General description of the facility:

(For example: landfill, surface impoundment, pile, container, types of hazardous substances, location of the facility, contamination route of major concern, types of information needed for rating, agency action, etc.)

Alsy Manufacturing manufactures lamps and lampshades. Operations include bronze plating, antiquing, electroplating. In 1984, the site was inspected by NYSDEC and NCDOH. Many unauthorized discharges were found and much of the area behind the Alsy building was found to be contaminated with heavy metals and volatile organics. Alsy was ordered to cease all discharges, to clean up contamination, and to begin a remedial investigation. Although some portions of the site have been cleaned, Alsy's consent order was never completed. Criminal prosecution is under way.

Scores: S_M = 32.81 (S_{gw} = 56.87 S_{sw} = 0 S_a = 0)

S_{FE} = N/A

S_{DC} = 62.5 Maximum S_M = 37.93

FIGURE 1
HRS COVER SHEET

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 239,300 — 04 NARRATIVE DESCRIPTION
Within a 3-mi radius, the aquifer of concern has been developed by 5 Jericho W.D. wells, 20 Hicksville W.D. wells, 2 Plainview W.D. wells, 1 Old Westbury Village W.D. well, 9 Westbury W.D. wells, 2 Bowling Green Estates W.D. wells, and 9 Levittown W.D. wells. In addition, an unknown number of private wells within a 3-mi radius.

01 [ ] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
Although contaminants were discharged to ground surface, there is no viable overland route to surface water due to roads, highways, and recharge basins which intersect the pathway.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
None known or reported.

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
No imminent threat.

01 [X] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 21,726 — 04 NARRATIVE DESCRIPTION
Pollutants were found on the surface behind the Alsy building. The site is not entirely fenced.

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE Feb 1984) — [ ] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: unknown acres — 04 NARRATIVE DESCRIPTION
Samples from soil underneath the illegal discharges from Alsy Cycle II were found to be contaminated with several heavy metals.

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 235,300 — 04 NARRATIVE DESCRIPTION
Limited to the population served by ground water.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
None known or reported.

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
None known or reported.

EPA FORM 2070-13 (7-81)

Recommendations

R-106

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [ ] A SOLID
- [ ] B POWDER, FINES
- [ ] C SLUDGE
- [ ] D OTHER _____ (Specify)
- [ ] E SLURRY
- [x] F LIQUID
- [ ] G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be consistent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A TOXIC
- [ ] B CORROSIVE
- [ ] C RADIOACTIVE
- [x] D PERSISTENT
- [ ] E SOLUBLE
- [ ] F INFECTIOUS
- [ ] G FLAMMABLE
- [ ] H IGNITABLE
- [ ] I HIGH VOLUME
- [ ] J EXPLOSIVE
- [ ] K REACTIVE
- [ ] L INCOMPATIBLE
- [ ] M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown		
IOC	INORGANIC CHEMICALS	unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	75-09-2	TK/OD/DR	12,000	mg/liter
SOL	1,1,1-trichloroethane	71-55-6	TK/OD/DR	74,000	ug/liter
SOL	1,1-Dichloroethene	75-34-3	TK/OD/DR	600	ug/liter
SOL	Toluene	108-88-3	TK/OD/DR	18,000	ug/gram
SOL	M-Xylene		TK/OD/DR	12,000	ug/gram
OCC	Ethyl benzene	100-41-4	TK/OD/DR	2,000	ppb
MES	Nickel	7440-02-0	TK/OD/DR	169,000	ug/liter
MES	Chromium	7440-47-3	TK/OD/DR	434	ug/liter
MES	Arsenic	7440-38-2	TK/OD/DR	90	mg/liter
MES	Lead	7439-92-1	TK/OD/DR	120	mg/liter
MES	Cadmium	7440-43-9	TK/OD/DR	0.33	mg/liter
IOC	Cyanide		TK/OD/DR	0.96	mg/liter
MES	Copper		TK/OD/DR	464,000	ug/liter

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection, 23 January 1987.
References: 1, Appendixes 1.1-15, 1.1-23, 1.1-29, and 1.4-1.

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: NY
02 SITE NUMBER: New

II. SITE NAME AND LOCATION

01 SITE NAME: Alsy Manufacturing
02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER: 270-280 Duffy Avenue
03 CITY: Hicksville (Town of Oyster Bay)
04 STATE: NY
05 ZIP CODE: 11801
06 COUNTY: Nassau
07 COUNTY CODE:
08 CONGRESSIONAL DISTRICT:
09 COORDINATES: LATITUDE 40° 45' 47.1" LONGITUDE 73° 31' 52.1"
10 TYPE OF OWNERSHIP (Check one): [X] A. PRIVATE [ ] B. FEDERAL ____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL [ ] F. OTHER ____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 1 23 86 (MONTH DAY YEAR)
02 SITE STATUS: [X] ACTIVE [ ] INACTIVE
03 YEARS OF OPERATION: 1975 (BEGINNING YEAR) 1 (ENDING YEAR) present ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): [ ] A. EPA [ ] B. EPA CONTRACTOR ____ [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR ____ [ ] E. STATE [X] F. STATE CONTRACTOR EA Science and Tech. [ ] G. OTHER ____

05 OTHER INSPECTORS	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
James Shultz	Senior Geologist	EA	914 692-6706
Rebecca Ligotino	Environmental Scientist	EA	914 692-6706
Howard Schaefer	Public Health Sanitarian	NCDOH	516 535-3312
Robert Ellis	Public Health Sanitarian	NCDOH	516 535-2406
			( )
			( )

09 SITE REPRESENTATIVES INTERVIEWED	10 TITLE	11 ADDRESS	12 TELEPHONE NO.
Al Gindel	President	270 Duffy Avenue Hicksville, New York 11801	516 822-5252
John Casaburri	Plant Mgr.	280 Duffy Avenue Hicksville, New York 11801	( )
			( )
			( )
			( )
			( )

13 ACCESS GAINED BY (Check one): [X] PERMISSION [ ] WARRANT
14 TIME OF INSPECTION: 1430
15 WEATHER CONDITIONS: Overcast, cold

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (AGENCY/ORGANIZATION)	03 TELEPHONE NO.
Rebecca Ligotino	EA Science and Technology	914 692-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Rebecca Ligotino		EA		1 18 87 (MONTH DAY YEAR)

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 6 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A NPDES				
☐ B UIC				
☐ C AIR				
☐ D RCRA				
☐ E RCRA INTERIM STATUS				
☐ F SPCC PLAN				
☒ G STATE SPDES	NY0102539	1977	1984	
☐ H LOCAL				
☐ I OTHER				
☐ J NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A SURFACE IMPOUNDMENT		
☐ B PILES		
☒ C DRUMS, ABOVE GROUND	Unknown	
☐ D TANK, ABOVE GROUND		
☒ E TANK, BELOW GROUND	unknown	
☐ F LANDFILL		
☐ G LANDFARM		
☒ H OPEN DUMP	unknown	
☐ I OTHER		

04 TREATMENT (Check all that apply)
☐ A INCINERATION
☐ B UNDERGROUND INJECTION
☐ C CHEMICAL/PHYSICAL
☐ D BIOLOGICAL
☐ E WASTE OIL PROCESSING
☐ F SOLVENT RECOVERY
☐ G OTHER RECYCLING/RECOVERY
☐ H OTHER

05 OTHER

☒ A BUILDINGS ON SITE

06 AREA OF SITE

2.3 acres

07 COMMENTS

Alsy Mfg. had a SPDES permit for one sanitary cesspool and one industrial leachpool authorized to recieve various met s. Numerous SPDES viola ons have occurred including: unauthorized point sources, use of sanitary system for discharge of industrial pollutants, discharges above allowable permit limiations, violation of effluent standards, and discharges of unauthorized pollutants, particularly solvents. NYS inspectors have discovered contaminated soil on the site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A ADEQUATE, SECURE ☐ B MODERATE ☐ C INADEQUATE, POOR ☒ D INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Below grade leachpools/cesspools offer no containment with respect to ground water. In addition, wastes were disposed in ground surface.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO

02 COMMENTS

Site is not entirely fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection.
References: 1 and 4. Appendix 1.1-2.

EPA FORM 2070-13 (7-81)

D-19

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Alsy Manufacturing

I.D. Number: 130027

Person Contacted: Mr. Alvin Gindel

Date: 23 January 1986

Title: President

Affiliation: Alsy Manufacturing, Inc.

Phone No.: (516) 822-5252

Address: 270 Duffy Avenue
Hicksville, New York 11801

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

Alsy Manufacturing, Inc. is a metal plating operation that moved in to the building at 270 Duffy Avenue, Hicksville, New York in 1975. Alsy currently leases the building from Lazarus Associates, who recently purchased the property from Balatem Realty. The previous occupant was Laboratory Furniture, Inc. Mr. Gindel indicated that while Alsy does metal plating, they have an extensive pollution control system that takes care of any toxic discharge. They do use trichloroethane, but have it hauled away. Mr. Gindel insists that what started intense investigation into his company's operational procedures was someone throwing soil into the toilet cesspool. Alsy Manufacturing did not use the dry wells on site. In fact, a disconnected pipe discovered while excavating rendered them unusable. These dry wells and most of the cesspools were already in place when Alsy moved in. Alsy had been working with the Nassau County Department of Health (NCDOH) to clean up the cesspools and to install monitoring wells. Monitoring wells had been installed onsite. Soon thereafter, the New York State Department of Environmental Conservation (NYSDEC) got involved. The NYSDEC sampled the cesspools and found a slight chemical contamination in one. The cesspools have all been cleaned. They ordered Alsy Manufacturing, Inc. to dig up suspected and contaminated soil and have it hauled away. They later tested the soil and found nothing. Mr. Gindel insists that what contamination the NYSDEC found has all been cleaned up. Since 1985, Alsy Manufacturing, Inc. is hooked up to the public sewer system. H2M Inc. investigated the plating operation and reported them "clean".

was run from the industrial cesspools to the railroad siding area. He also suggested that the dry wells which currently receive surface runoff may have received industrial wastes, although this was never observed by the NCDOH and cannot be substantiated. The old soil pile was created in 1984 when the surface of the swampy area which had received the SPDES discharge bypass flow was skimmed and the soil piled up. Various stains on the ground surface and colors on the wall near the paint shop area seen by the NCDOH inspectors were caused by discharge from the stripping sinks of Alsy Cycle II. Alsy Cycle II is a separate corporation, but part of the operations at 280 Duffy Avenue. Two stripping sinks discharged at the corner of the building via a 6-in. pipe to the ground. In addition, waste paints stored in the area have been spilled to the ground. Soil sampling done in this area has shown concentrations of lead. A 6-in. PVC pipe coming out of the ground behind the paint shop area is said to be a clean-out pipe for the sanitary pools also in the same location. In May 1985, Alsy Manufacturing hooked up to the public sewer system, and no longer discharges to the various pools on the property.

Mr. Casaburri indicated that the former owner of the property, Balatem, Inc. operated onsite as Metalab, a maker of laboratory furniture.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

_____

_____

_____

_____

_____

Signature: _____ Date: _____

_____

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Alsy Manufacturing

I.D. Number: 130027

Person Contacted: Mr. John M. Casaburri

Date: 23 January 1986

Title: Plant Manager

Affiliation: Alsy Manufacturing, Inc.

Phone No.: (516) 822-5252

Address: 280 Duffy Avenue
Hicksville, New York 11801

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

According to Mr. John M. Casaburri, Plant Manager, the investigation of Alsy Manufacturing, Inc. began when the New York State Department of Environmental Conservation (NYSDEC) came to collect a routine sample for the SPDES permit. NYSDEC personnel observed a discharge from a pipe from inside the building to the ground surface. In addition, other pipes were seen coming out of the wall at various spots around the building. NYSDEC notified Nassau County Department of Health (NCDOH) and NCDOH began working with Alsy Manufacturing to evaluate the situation. A monitoring program was worked out with Alsy's consultant, Soil Mechanics, Inc., and certain of the proposed ground-water monitoring wells were installed during the spring of 1985 (wells were of 4-in. PVC construction and installed to first water). However, the NYSDEC disagreed with the monitoring program, and plans for the program stopped. The wells that had been installed were not sampled. The NYSDEC sampled the pools, sediment, and a suspicious dirt pile in the back of the property, and ordered a clean up of the site. Clean up took place, but with no supervision. No post-clean up samples have been taken. H2M, Inc., a consultant for Alsy, sampled at the site just prior to the NYSDEC sampling.

Discharge to the cesspools took place from 1977 to 1985. At times when the cesspools overflowed, wastes were bypassed the SPDES discharge and dumped directly to the ground in the swampy area. It was established during investigations of the site that a cesspool was beneath the swampy pool. An abandoned cesspool is located partially under the building in line with the industrial cesspools. Mr. Casaburri has indicated that wastes were treated with cyanide destruction, metal precipitation, and chlorination before being discharged to the cesspools. Mr. Schaefer, NCDOH, indicated chlorinated solvents have, at times, been identified in the SPDES discharge, but it has never been determined where they were coming from. Mr. Schaefer hypothesized that the chlorinated solvents may have been coming from lacquers used on lamps or perhaps from degreasing machines, however there is no direct connection to the plating line and parts should be dry by the time they reach plating. Mr. Casaburri indicated there is a 275-gallon trichloroethane tank inside the building. He insisted that there is no way solvents could reach the treatment system and solvents are not part of the Alsy discharge. Chlorinated solvents are not treated for by the waste treatment system. Mr. Schaefer indicated that at some point after the problems were discovered at the site an overflow pipe

DATA SUPPORTING REQUEST FOR LEGAL ACTION

DATE: ~~July 9, 1984~~ Sept 25, 1984
FIRM: Alsy Manufacturing Inc.
RESPONSIBLE OFFICER: A. Gindel, President
ADDRESS: 270 Duffy Ave.
Hicksville, NY 11801

1. Specific Violations: ECL 17-0803 - discharging in a manner other than as prescribed by SPDES permit 0102539; ECL 17-0505 - making use of an outlet discharging into the waters of the State without a valid SPDES permit; ECL 17-0501 - discharging in contravention of the groundwater effluent standards and limitations as set forth in 6NYCRR 703.6; violation of Permit Part II, Sec. 9 requirements to submit and obtain approval of an engineering report, plans, and specifications prior to construction of modifications to the waste disposal system; and violations of Permit Part II, Sec. 5 requirement for submittal of non-compliance reports.

this site has just been added to State ~~[illegible]~~ Inactive Hazardous Waste list.

2. Background Information: On four separate occasions; (February 21, 22, 24, and 27, 1984) inspections by DEC and/or NCDH showed four unpermitted discharges; an overflowing sanitary cesspool, plus two additional unpermitted outlets showing evidence of prior usage. Samples taken by DEC on 2/21/84 showed violations of limitations for two permitted outlets, and violations of groundwater effluent standards and/or limitations (see Item 8, below). Non-compliance reports were not submitted with the DMR's. No engineering reports, plans or specifications were submitted or approved for construction of the Seven unpermitted outfalls.

3. Facts describing Respondent's cooperation or lack thereof

All unpermitted discharges have ceased, overflowing sanitary cesspool has been corrected.

4. Other proceedings, if any involving respondent

None

5. Recommendations
Compliance Conference X Hearing _____ Priority High
Fine $ 50,000 Performance Bond _____
Other Penalty _____
Consent Order Terms: See attached

6. Other Comments: Case [illegible]

R-113

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTY ROAD, MINEOLA, N.Y. 11501

JOHN J. COWLING, M.D., M.P.H
Commissioner

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

FRANCIS T. PURCELL
County Executive

June 2, 1983

Mr. Jack Ehrenfeld
Alsy Mfg. Co.
270 Duffy Avenue
Hicksville, N.Y. 11801

Dear Mr. Ehrenfeld:

The Discharge Monitoring Reports recently submitted to this office have been reviewed.

These reports show that the discharge has exceeded maximum and average values several times for pH, copper and zinc. In addition, reports submitted in 1982 also show several constituents above discharge limits. This is a violation of Article 17, Section 17-0501 of the Environmental Conservation Law.

Action to correct this situation must be taken as quickly as possible. Please contact this office by June 17, 1983 to describe the action you have taken to bring the discharge into compliance.

Very truly yours,

Howard Schaefer

Howard Schaefer
Bureau of Land Resources Management

HS:ceg

cc: Daniel Larkin, NYSDEC,
Stony Brook

D-114

Nassau County Department of Health

Bureau of Land Resources Management

Appendix 1.1-31

Current Status of Matters Referred to DEC for Enforcement

November 27, 1984
Revision October 7, 1985

Received from:
Nassau Co. Dept. of Health

Alsy Manufacturing Co., Hicksville

1. Description of Facility Operations

Electroplater - manufacturer of lamps by a variety of processes that place protective and decorative coatings on base metal.

2. Violations

On February 21, 1984 a DEC inspection and sampling revealed unpermitted discharges and a permitted discharge in violation of SPDES limits for copper, lead, nickel, zinc, cyanide, arsenic and volatile organic chemicals (1,1 dichloroethane, 1,1,1 trichloroethane, toluene, ethylbenzene, methylene chloride). Samples taken: November 17, 1983, October 2, 1984, May 8, 1985. DEC - February 21, 1984.

3. Current Status

Unpermitted discharges were stopped March 26, 1984 and cleanup of leaching pools completed by May 29, 1985. Complete investigation and site cleanup has not taken place. Site is on State Superfund List.

4. Current Threat

Possible threat to Hicksville Water District - closest public water supply wells in general direction of groundwater flow are two wells in that district approximately one mile southwest of the site. Current monitoring shows no contamination of these public water supply wells with the above chemicals.

5. Summary of Enforcement Actions

Waiting since May 1984 referral for DEC-Stony Brook to issue Consent Order requiring compliance with discharge standard and complete investigation and cleanup of site.

The facility completed an upgrade and modification of existing watewater treatment system and connected all industrial wastewater discharges to the public sewer April 3, 1985.

DEC-Stony Brook issued Summary Abatement Order April 9, 1985 requiring all discharges not in compliance with standards be immediately stopped and arrange for removal of all wastes from leaching pools on site. Cleanup of contaminated leaching pools was completed May 29, 1985.

DEC proposed Consent Order issued June 4, 1985 requiring a Remedial Investigation of site contamination and a feasibility study for remediation. DEC sent letter on July 5, 1985 with terms required for fulfillment of Summary Abatement Order. Inspection by DEC on July 26, 1985 showed many, but not all, items completed.

Uncompleted items were not to be pursued. Site was to be dealt with instead as inactive hazardous waste site by use of Consent Order.

On September 20, the Hazardous Waste Unit of DEC informed NCDH that Consent Order will not be pursued but instead case has been referred to the Attorney General for criminal prosecution. Court Order will incorporate full field investiation.

6. Listing of Enforcement Actions

NCDH letter - referral to DEC	- May 1, 1984
Draft consent order dated July 20, 1984 received by NCDH.	- August 3, 1984
NCDH letter comments on draft consent order	- August 9, 1984
DEC letter transmitting revised draft consent order received by NCDH. Revised draft C.O. is identical to July 20, 1984 draft C.O.	- October 4, 1984
NCDH letter to DEC encloses August 9, 1984 NCDH letter which recommended changes to the July 20, 1984 draft C.O.	- October 9, 1984
DEC October 1, 1984 enforcement status report received by NCDH. Indicates that the regional attorney has been reviewing the draft C.O. since August 17, 1984 and that it has also been transmitted to the Diivision of Hazardous and Solid Wastes in White Plains for review. Also indicates site newly listed as State Superfund site.	- October 25, 1984
Facity upgraded wastewater treatment system and connected all industrial wastewater discharges to public sewer	- April 3, 1985
DEC - Stony Brook issued summary abatement order for cessation of discharges not in compliance and for cleanup of leaching pools.	- April 9, 1985
DEC issues proposed consent order	- June 4, 1985
DEC sent letter with terms to achieve compliance with summary abatement order.	- July 5, 1985

DEC inspection - many but not all items completed. - - July 26, 1985

DEC informs NCDH that Summary Abatement Order and Consent Order will not be pursued, but instead case has been referred to Attonry General. - September 20, 1985

7 . Next Action Due

Court to incorporate full field investigation in criminal prosecution.

Appendix 1.1-34

New York State Department of Environmental Conservation

MEMORANDUM

TO: John E. Iannotti, Supervisor, Eastern Remedial Section
FROM: Richard G. Torrey, Eastern Remedial Section
SUBJECT: ALSY, Hicksville, Long Island, Region 1
DATE: May 29, 1985

Received from NYSDEC Region 1

This memo will bring you up to date on the above facility. We have discussed some of the items verbally.

On May 1, 1985 I attended a meeting on ALSY at the request of Phil Barbato, Region 1, Water Engineer. This meeting was held at the Nassau County Health Department Offices in Mineola. The subject of the meeting was the Summary Abatement Order for the facility, (a list of attendees is attached) and how it would be handled. After discussion, four points were agreed on:

1. The pits could be pumped through ALSY's new pretreatment facility.

2. A joint inspection would be held May 2nd to check the corrections required inside the buildings.

3. Rocky Piaggione of DEE, White Plains Office, would contact the AG's Office and request no action on their part against the site at this time.

4. The Department (DEC) would sample the soil and other leaching pits on site for E.P. Toxicity, total phenols, volatile, heavy metal, and any other contaminant found at the site in previous samples.

In addition to the above, I am to coordinate with all parties, the coverage at the site during any remedial action.

On May 2nd the joint inspection of the facility took place. Bill O'Brien, Region 1, conducted this as he was familiar with the discharge points. It appeared all illegal discharges had been eliminated.

At Phil's request I asked Jerry Rider to do a joint RCRA inspection of the site.

The points to be sampled were located today also. The sampling was conducted on May 8th, with Terri Gerrish of DEE, White Plains, and Bill O'Brien assisting. There were six (6) water samples, and eight (8) soil samples obtained and shipped to Erco Labs in Mass. A chain of custody was used and the samples were split with H_2M, ALSY's representative.

R-119

Received from
NYSDEC Region 1

The week of May 20th, three (3) leaching pits (W1, W2, W3) and one catch basin were pumped out and treated in the ALSY pretreatment plant.

On May 22nd, I found leaching pits, pits W-2 and W3, with large amounts of water in them which would necessitate pumping them out again.

It was decided to test the roof drains with dye and water to determine if the water in these pits came from the heavy rain on May 21st. A roof drain from the old building was found to be still connected to the pits. The line from the building to the pits was dug up, cut off and plugged.

The pumping and treatment of the leaching pits was finished on May 25th.

Removal of the pits and contaminated soil will start when the sample results are received. I will coordinate this with the Region and NCHD.

Attachment
RGT:ks
cc: P. Barbato, Region 1
B. O'Brien, Region 1
Ted Sanford, Region 1

15 (12/75)

New York State Department of Environmental Conservation

MEMORANDUM

TO: File
FROM: Bill O'Brien
SUBJECT: Sampling and Inspection of Alsy Mfg. on 8/1/84

DATE: August 2, 1984

I went to Alsy Mfg. on 8/1/84 to take samples from the industrial outfall 001. I was met there by Larry Chrysler of Alsy. Sample E184-207-11 was taken from the first cesspool - a strong volatile smell was noted when the cesspool was opened. Cesspool was filled to within 6 inches of cover. Mr. Chrysler informed me that all sanitary discharges were connected to sewers including the sanitary that had been connected to outfall 001. This is the first I was informed of sanitary connection to outfall 001, and I'm not sure it's correct. I next went to the second cesspool and took sample E184-207-13, the cover was off this cesspool and a gasoline powered pump was set up to pump out the cesspool but was not running. The outfall from the pump Mr. Chrysler informed me was in Cesspool #3, but I pointed out that the hose was not in Cesspool #3, but was on the ground east of the cesspools. A large area had been flooded by the pumping operation. Mr. Chrysler was informed that this was a violation, he said the operation would not resume. Cesspool #2 was filled to within about a foot of the cover. Cesspool #3 was sampled next, sample #E184-207-09. All samples will be analysed for Metals and Volatiles. Cesspool #3 was filled to within 4 inches of cover. Mr. Chrysler informed me that samples of liquid and sludge from all three cesspools were given to NY Test Labs last week and when results were received, cesspools would be pumped by RGM; this was anticipated to be in a week or two.

I next went into the building with Mr. Chrysler to see that the plating line overflow had been removed. Near the back door was a pile of PVC pipe, apparently removed from the overflow. About half way between the back door and the plating line the overflow was observed connected to a roof drain. Mr. Chrysler said he had never seen this before. We traced it back to the submersible pump behind the plating tanks. Mr. Chrysler was informed this was a violation. Mr. Chrysler then ordered a worker to cut out with a hack saw approximately six feet of the verticle pipe above the pump. This pipe was removed while I watched.

I was next shown the Cycle II Area and noted that all discharges appeared to have been removed. An inspection of the railroad siding area near the Cycle II paint shop showed the area to be clean, but the siding to be flooded. Mr. Chrysler informed me that this area always had a drainage problem.

When questioned about hazardous waste storage practices, Mr. Chrysler showed me some 55 gallon drums and 5 gallon cans stored on pallets on a loading dock. I questioned Mr. Chrysler about the former storage of wastes in an alley on the south side of the building. He said he knew nothing about it. We went to the area and noted approximately 20 rusted 55 gallon drums. Of six checked to see if they contained liquid, four appeared to be full and two empty. One of the full drums appeared to be swelling as the top was bulged up. At least one other drum was noted in this condition but was not checked to determine if it was filled. Another full drum appeared to be leaking, the top of the drum had dull blue material around the cap, while the ground around the drum was covered with a shiney blue stain which appeared wet. There were numerous stains on the asphate in the area of the drum storage and it is possible other drums are leaking. Only two drums were observed to be labeled; one with a Hazardous waste label and one labeled "Bad Paint". In February most drums in this area bore Hazardous Waste labels. Mr. Chrysler was informed that this probably represented a violation, and he said he was unaware of the drums, and would have them removed as soon as he had the contents analyzed.

When we returned to Mr. Chryslers office, I questioned him about the discharge of untreated rinse water from the plating line to a storm drain mentioned in H2M's engineering report. Mr. Chrysler said he knew of no such discharge but would try to find out what discharge was being referred to. Mr. Chrysler repaired that most improvements to the treatment system recommended by the report had been implemented, while a few would be done when necessary equipment was received. He said that when upgrade was complete much or all process wastewater would probably be recycleable.

A real estate agency sign was noted on the southeast corner of the building. When Mr. Chrysler was questioned about this and he said he had never seen it.

sp
cc: A. Yerman
G. Robin
P. Barbato
H. Schaefer, NCDH

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

JOHN J. DOWLING, M.D., M.P.H.
Commissioner

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

FRANCIS T. PURCELL
County Executive

December 13, 1983

Mr. Jack Ehrenfeld, General Manager
Alsey Mfg. Co.
270 Duffy Avenue
Hicksville, N.Y. 11801

Dear Mr. Ehrenfeld:

Recently a sample was collected of your industrial wastewater discharge. Analysis of this sample for organic chemicals shows it to contain certain chemicals in concentrations exceeding allowable amounts.

Constituent	Allowable Limit	Test Result
Methylene Chloride	50 ug/l	63 ug/l
Total Organics*	100 ug/l	154 ug/l

*Includes chloroform 9 ug/l, 1,1,1 trichloroethane 30 ug/l, toluene 39 ug/l, xylene 13 ug/l.

A copy of the test result has been enclosed for your reference. Please investigate the source of this contamination and take measures to eliminate it. Contact this office by December 28, 1983 to report on your success.

Analysis of the sample for inorganic chemicals has not been completed. The results will be forwarded to you when they are received by this office.

I may be contacted at 535-2284 if you have any questions.

Very truly yours,

Howard Schaefer

Howard Schaefer
Bureau of Land Resources Management

HS:no
Enc.

LABORATORY REPORT

CHEMICAL EXAMINATION OF IN[illegible]STRIAL AND HAZARDOUS WASTES

Division of Laboratories and Research

Nassau County Department of Health

1 ☑ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 13926

Field No. [illegible]

Source Information (Please Print)

Premises Alsy Mfg

Address Duffy Ave.

Town Wantagville

Collection Point [illegible]

	Month	Day
Date Collected	11	7
Date Received		
Date Reported		

Collection Time [illegible]

Collected By: [illegible]

Sampler's Comments:

Bureau :
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Check	Metals		Result	Check	Non-Metals		Result
1	Aluminum	mg/l	400.0	15	Chloride	mg/l	43.8
2	Arsenic	mg/l	0.06	16	Cyanide	mg/l	
3	Barium	mg/l	<0.5	17	Fluoride	mg/l	<0.20
4	Cadmium	mg/l	<0.001	18	MBAS	mg/l	0.06
5	Chromium, Total	mg/l	<0.01	19	pH		9.3
6	Copper	mg/l	3.05	20	Phenols	mg/l	
7	Iron, Total	mg/l	0.82	21	Solids, Suspended	mg/l	
8	Lead	mg/l	<0.01	22	Solids, Total Diss.	mg/l	1392
9	Manganese	mg/l	<0.05	23	Sulfate	mg/l	870
10	Mercury	mg/l		24	Ammonia nitrogen	mg/l	0.73
11	Nickel	mg/l	1.00	25	Kjeldahl nitrogen	mg/l	3.3
12	Selenium	mg/l	<0.005	26	Nitrite nitrogen	mg/l	0.017
13	Silver	mg/l	0.10	27	Nitrate nitrogen	mg/l	2.66
14	Zinc	mg/l	0.30	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

Examiner's Comments

BOTTLE NOT SUBMITTED FOR PHENOL.
BOTTLE NOT SUBMITTED FOR CYANIDE.

D-103

LIMITATIONS AND MONITORING REQUIREMENTS

.iod beginning EDP
, until 5 Years From EDP
.arges from the permitted facility shall be limited and monitored by the
.see as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations Daily Avg.	Daily Max.	Units	Monitoring Reqmts. Measurement Frequency	Sample Type
001 Flow		NA		Continuous	Recorder
Copper-Total		1	mg/l	Monthly	Composite
Cyanide-Total		.4	"	"	"
Nickel-Total		2	"	"	"
Zinc-Total		5	"	"	"
Total Nitrogen		10	"	"	"
Phenol		.002	"	"	"
pH (Range)	6.5 - 8.5		SU	"	Grab
Chloroform		.1	mg/l	Quarterly	"
Dichlorobromomethane		.05	"	"	"
Methylene Chloride		.02	"	"	"
2,4-Dinitrophenol		.25	"	"	"

Clause 1: The permit application must list all the corrosion/scale inhibitors or biocidal-type compounds used by the permittee. If use of new boiler/cooling water additives is intended, application must be made prior to use.

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington DC 20460

EPA Form 2070-12
July 1981

Alsy Manufacturing

EPA

Potential Hazardous Waste Site

Preliminary Assessment

PA/
New Site Discovery

FILE COPY

R-125

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Alsy Manufacturing	270 Duffy Avenue				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Hicksville (Town of Oyster Bay)	NY	11801	Nassau		
09 COORDINATES LATITUDE 40° 45' 47"	LONGITUDE 73° 31' 52"				

10 DIRECTIONS TO SITE (Starting from nearest public road)

, The site is located on the north side of Duffy Avenue about 3/4 of a mile west of the intersection of Duffy Avenue and Newbridge Road.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Surrey Corp.	6901 Jericho Turnpike		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Syosset	NY	11791	(516) 361-2000
07 OPERATOR (If known and different from owner) Mr. Alvin Gindel, Pres.	08 STREET (Business, mailing, residential)		
Alsy Manufacturing, Inc.	270 Duffy Avenue		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Hicksville (Town of Oyster Bay)	NY	11801	(516) 822-5252

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 1 / 23 / 86 (MONTH DAY YEAR)

☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): EA Science and Technology

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1977 (BEGINNING YEAR) | present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

SPDES discharge of treated plating wastes to leaching pools. Wastes bypasssing treatment were discharged to ground. Crusts with multi-layers of paint or paint sludge were observed near railroad spur.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Samples of discharge and surrounding soils indicates potential soil and ground-water contamination.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
Rebecca Ligotino	EA Science and Technology			(914) 692-6706
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Stephen Barry		EA	(914) 692-6706	3 / 25 / 86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

R-126

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☒ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☒ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☒ G FLAMMABLE
- ☐ H IGNITABLE
- ☒ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS	Unknown		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	75-09-2	TK/OD/DR	600	ppb
SOL	1,1,1 Trichloroethane	71-55-6	TK/OD/DR	600	ppb
SOL	1,1 Dichloroethane	75-34-3	TK/OD/DR	600	ppb
SOL	1,2 Dichloropropane	78-99-9	TK/OD/DR	Unknown	
SOL	1,1 Dichloroethylene	75-35-4	TK/OD/DR	Unknown	
SOL	Toleune	108-88-3	TK/OD/DR	600	ppb
SOL	Xylene	1330-20-7	TK/OD/DR	Unknown	
OCC	Ethyl benzene	100-41-4	TK/OD/DR	240	ppb
MES	Nickel	7440-02-0	TK/OD/DR	88.5	mg/liter
MES	Chromium	7440-47-3	TK/OD/DR	0.19	mg/liter
MES	Arsenic	7440-38-2	TK/OD/DR	57	ppb
MES	Lead	7439-92-1	TK/OD/DR	120	ppb
MES	Cadmium	7440-43-9	TK/OD/DR	0.33	mg/liter
IOC	Cyanide				

V. FEEDSTOCKS (See Appendix for CAS Numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA site inspection, 23 January 1986
New York State Department of Environmental Conservation Bureau of Hazardous Site Control-files.
Nassau County Department of Health files
New York State Department of Environmental Conservation Region I files
New York State Department of Environmental Conservation Division of Environmental Enforcement file

CHEMICAL/SOLVENT WASTE REPORT

For each shipment of wastes, complete the following table with the indicated information. ATTACH COPIES OF MANIFESTS RECEIPTS FROM SCAVENGER FOR EACH SHIPMENT MADE.

Date of Shipment	Type of Waste (Chemical, oil or solvents)	Amount Shipped	Shipped By: Scavenger Name	Shipped By: Scavenger Address	Shipped By: Scavenger Number (EPA I.D. No.)	Shipped To (Final Disposal Site For Waste)
1/11/85	Solvent	330 gal	Chemical Waste Disposal	42 14 19th Ave, Bklyn, NY	NYD077444263	Chemical Waste Di
1/10/85	Metal Sludge	220 gals	"	"	"	Chemical Waste
2/7/85	Solvent	165 gals	"	"	"	Chemical Waste
2/7/85	Metal Sludge	165 gals	"	"	"	Chemical Waste Dis
2/28/85	Solvent	330 gals	"	"	"	Chemical Waste Dis
5/30/85	Solvent	110 gals	"	"	"	Chemical Waste Dis
5/30/85	Corrosive Chemical	55 gals	"	"	"	Chemical Waste Dis
6/4/85	Solvent	440 gal	Techtronics Ecological	8 Walworth St., Brln., NY	NYD000824334	Techtronics Eco
6/4/85	Waste Paint	110 gals	"	"	"	Techtronics Ecological
8/28/85	Solvent	440 gals	"	"	"	Techtronics Ecological
10/22/85	Solvent	330 gals	"	"	"	Techtronics Ecolog
11/18/85	Metal Sludge	10 cu. yds	Salo Waste, Inc	115 Jacobus Ave., So. Kearney, NJ	NJD991239-1105	Waste Conversion 2869 Sandstone Dr., Hatt
11/18/85	Metal Sludge	20 cu. yds	"	"	"	"

...dental spills that occurred during the reporting period:

...ill	Describe the nature of spill

Title

Date: / /

Environmental Engineers & Scientists
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575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

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MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

Project No. 2C

Lab No.

CLIENT'S NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY: RG 99
DATE COLLECTED: 2/21/84 DATE RECEIVED: 2/21/84

DEC ID# E-184-207-08 A/sy
SOIL SAMPLE
PRIORITY POLLUTANT METALS & TOC & PHENOL

PARAMETER	RESULT	PARAMETER	RESULT
Antimony	<0.27	Selenium	<0.95
Arsenic	1.9	Silver	1.9
Beryllium	<0.93	Thallium	<0.27
Cadmium	4.7	Zinc	65
Chromium	13	T.Org Carbon	1.58%
Copper	55.9	Phenols	1.90
Lead	140		
Mercury	0.23		
Nickel	280		

All results reported in mg/kg or percent (%) Dry Weight.

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
LAW ENFORCEMENT
WHITE PLAINS

Date Reported: 8/16/84

S. C. McLENDON, P.E., LABORATORY DIRECTOR

R-129

THE LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND SAID

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LABORATORY REPORT

LAB NO. 46432
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONS.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
COLLECTED BY WO 9
DATE COLLECTED - 10/10/84
DATE RECEIVED - 10/10/84

PRIORITY POLLUT T METALS & CYANIDE
DEC ID #E-184-207-14
LIQUID SMPLE
Alsy - Treatment System Discharge

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	10.0 #	SILVER	<0.02
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	0.28
CHROMIUM	<0.02	CYANIDE	0.17
COPPER	0.65	Permit limit 0.40	
LEAD	<0.20	? ← limit 0.05	
MERCURY	<0.50#		
NICKEL	0.33		

RECEIVED
NOV - 5 1984
BUREAU OF WATER RESEARCH
DIVISION OF WATER

Received from Nassau Co. Dept. of Health

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

R-130

DATE REPORTED 10/29/84

S.C. McLENDON, P.E., LABORATORY DIRECTOR

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LABORATORY REPORT

5.1.92

LAB NO. 4551

PROJECT NO. 2C

COLLECTED BY RG

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONS.

50 WOLF ROAD

ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84
DATE RECEIVED - 2/21/84

EP TOXICITY METALS
DEC ID #E-184-207-07
SOIL SAMPLE
Alsy "Gesso" - West side of Bldg

PARAMETER	RESULT
ARSENIC	29.5 #
BARIUM	1.50
CADMIUM	0.33 limit 0.02
CHROMIUM	0.14
LEAD	6.20 limit 0.05
MERCURY	<0.50#
SELENIUM	9.00#
SILVER	<0.02

Received from: Nassau Co. Dept. of Health

RECEIVED
JUN 11 1984
BUREAU OF WATER RESEARCH
DIVISION OF PURE WATERS

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 5/30/

S. C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF HMM CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID

H2M HORZMACHER MCLENDON and MURRELL P.C.
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LABORATORY REPORT

LAB NO. 455:

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONS.

50 WOLF ROAD

ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY RG
DATE COLLECTED - 2/21/84 DATE RECEIVED - 2/21/84

EP TOXICITY METALS
DEC ID #E-184-207-07 ← E184-207-08
SOIL SAMPLE
Alex "Gesso" - Northside of Bldg

PARAMETER	RESULT
ARSENIC	20.5 #
BARIUM	0.80
CADMIUM	0.24 limit 0.02
CHROMIUM	0.19
LEAD	4.00 limit 0.05
MERCURY	<0.50#
SELENIUM	18.3 #
SILVER	<0.02

Received From: Nassau Co. Dept. of Health

RECEIVED
JUN 11 1984
BUREAU OF WATER RESEARCH
DIVISION OF PURE WATERS

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 5/30

S. C. McLENDON, P.E., LABORATORY DIRECTOR

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575 BROAD HOLLOW ROAD, MELVILLE N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 452032
Sample: DEC ID# E-184-207-06
Date Sampled: 2/21/84
Collected By: WO 99 O'Brien

ACID EXTRACTABLE PRIORITY POLLUTANTS

Compound	ug/l
2-Chlorophenol	ND
2-Nitrophenol	ND
Phenol	ND
2,4-Dimethylphenol	ND
2,4-Dichlorophenol	ND
2,4,6-Trichlorophenol	ND
4-Chloro-3-methylphenol	ND
2,4-Dinitrophenol	2) ND
2-Methyl-4,6-dinitrophenol	2) ND
Pentachlorophenol	ND
4-Nitrophenol	1) ND

Method limit of detection: lower than 25 ug/l (unless indicated otherwise)

Quantification limit: 25 ug/l

ND - Under detection limit.

1) Method limit of detection 40 ug/l.

2) Method limit of detection 60 ug/l.

Date Reported: 8/15/84

S.C. McLendon, P.E. Lab Director

RECEIVED FROM NYSDEC
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575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

Client Name and Address

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Alsy

Paint Shop discharge

Lab. No. 452030, 452031

Sample Description:
DEC ID#E-184-207-06

Amended report, replaces 6/20/84

Date Sampled: 2/21/84
Time Sampled:
Collected By: WD 99

PRIORITY POLLUTANTS

PURGEABLE ORGANICS

COMPOUND	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl chloride	ND
Chloroethane	ND
Methylene chloride	1100
Trichlorofluoromethane	ND
1,1-dichloroethene	ND
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	ND
1,2-dichloroethane	ND
1,1,1-trichloroethane	ND
Carbon tetrachloride	ND
Bromodichloromethane	ND
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	ND
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	ND
Chlorobenzene	ND
Ethylbenzene	ND
Acrolein 1)	ND
Acrylonitrile 1)	ND

Method limit of detection: lower than 100 ug/l

Quantification limit: 100 ug/l

ND - Under detection limit

1) Method limit of detection: lower than 100 ug/l

Date Reported: 7/13/84

S.C. McLendon, P.E., Lab Director

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APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

Client Name and Address

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Alsy

Lab. No. 452030, 452031

Sample Description:
DEC ID# E-184-207-06

Date Sampled: 2/21/84
Time Sampled:
Collected By: WO 99

PRIORITY PURGEABLE ORGANICS POLLUTANTS

COMPOUND	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl chloride	ND
Chloroethane	ND
Methylene chloride 2)	> 600
Trichlorofluoromethane	ND
1,1-dichloroethene	ND
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	ND
1,2-dichloroethane	ND
1,1,1-trichloroethane	ND
Carbon tetrachloride	ND
Bromodichloromethane	ND
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	ND
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	170
Chlorobenzene	ND
Ethylbenzene	11
Acrolein 1)	ND
Acrylonitrile 1)	ND

Method limit of detection: lower than 10 ug/l

Quantification limit: 10 ug/l

ND - Under detection limit

• - Detected, but less than 10 ug/l

1) Method limit of detection: lower than 100 ug/l

2) Exceeds instrument linearity.

SEE ATTACHED REPORT ATTACHED

Date Reported: 6/20/84

in- Shop discharge

S.C. McLendon, P.E., Lab Director

H2M Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL P.C.
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LABORATORY REPORT

S.1 91P

LAB NO. 452033
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84
COLLECTED BY WO 99
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS
DEC ID #E-184-207-06
LIQUID SAMPLE
Alsy Mfg - Printshop dsch

Received from Nassau Co. Dept. of Health

RECEIVED
NCDH
BLRM

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	<2.00#	SILVER	<0.02
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	0.15
CHROMIUM	<0.02		
COPPER	0.07		
LEAD	8.00#		
MERCURY	<0.50		
NICKEL	<0.02		

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/84

S.C. McLENDON, P.E., LABORATORY DIRECTOR

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 452028
Sample: DEC ID# E-184-207-05
Date Sampled: 2/21/84
Collected By: WO 99 O Brien

ACID EXTRACTABLE PRIORITY POLLUTANTS

Compound	ug/l
2-Chlorophenol	ND
2-Nitrophenol	ND
Phenol	ND
2,4-Dimethylphenol	ND
2,4-Dichlorophenol	ND
2,4,6-Trichlorophenol	ND
4-Chloro-3-methylphenol	ND
2,4-Dinitrophenol	2) ND
2-Methyl-4,6-dinitrophenol	2) ND
Pentachlorophenol	ND
4-Nitrophenol	1) ND

Method limit of detection: lower than 25 ug/l (unless indicated otherwise)

Quantification limit: 25 ug/l

ND - Under detection limit.

1) Method limit of detection 40 ug/l.

2) Method limit of detection 60 ug/l.

Date Reported: 8/15/84

S.C. McLendon, P.E. Lab Director

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

.nt Name and Address

.S. DEC
Wolf Road
.bany, NY 12233

Alsy.

Lab. No. 452026, 452027

Sample Description:
DEC ID#E-184-207-05

Date Sampled: 2/21/84
Time Sampled:
Collected By: WO 99

RITY PURGEABLE ORGANICS POLLUTANTS

COMPOUND		ug/l
Chloromethane		ND
Bromomethane		ND
Vinyl chloride		ND
Chloroethane		ND
Methylene chloride		540
Trichlorofluoromethane		ND
1,1-dichloroethene		ND
1,1-dichloroethane		ND
Cis/Trans-1,2-dichloroethene		ND
Chloroform		ND
1,2-dichloroethane		ND
1,1,1-trichloroethane		ND
Carbon tetrachloride		ND
Bromodichloromethane		ND
1,2-dichloropropane		ND
Trans-1,3-dichloropropene		ND
Trichloroethene		ND
Dibromochloromethane		ND
1,1,2-trichloroethane		ND
Cis-1,3-dichloropropene		ND
Benzene		ND
2-chloroethylvinyl ether		ND
Bromoform		ND
1,1,2,2-tetrachloroethane		ND
Tetrachloroethene	2)	> 600
Toluene		ND
Chlorobenzene		540
Ethylbenzene	1)	ND
Acrolein	1)	ND
Acrylonitrile		ND

Method limit of detection: lower than 10 ug/l

Quantification limit: 10 ug/l

ND - Under detection limit

• - Detected, but less than 10 ug/l

1) Method limit of detection: lower than 100 ug/l

2) Exceeds instrument linearity.

Date Reported: 6/19/84

S.C. McLendon, P.E., Lab Director

H2M
Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL P.C.
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LABORATORY REPORT

S 1 90

LAB NO. 452029

PROJECT NO. 2C

COLLECTED BY WO 99

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.

50 WOLF ROAD

ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS
DEC ID 0E-184-207-05
LIQUID SAMPLE
Alsy Mfg Ditch near paint shop

Received from: Nassau Co. Dept. of Health

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	39.0 #	SILVER	0.02
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	1.35
CHROMIUM	0.02		
COPPER	1.80	limit 1.0	
LEAD	1.90	limit 0.05	
MERCURY	<0.50#		
NICKEL	0.12		

RECEIVED
MAR 6 1984
NCDH
BLRM

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/8

S. C. McLENDON, P.E., LABORATORY DIRECTOR

LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID

HOLZMACHER, McLENDON and MURRELL P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
875 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 452024
Sample: DEC ID# E-184-207-04
Date Sampled: 2/21/84
Collected By: WO 99

ACID EXTRACTABLE PRIORITY POLLUTANTS

Compound	ug/l
2-Chlorophenol	ND
2-Nitrophenol	ND
Phenol	ND
2,4-Dimethylphenol	ND
2,4-Dichlorophenol	ND
2,4,6-Trichlorophenol	ND
4-Chloro-3-methylphenol	ND
2,4-Dinitrophenol	2) ND
2-Methyl-4,6-dinitrophenol	2) ND
Pentachlorophenol	ND
4-Nitrophenol	1) ND

Method limit of detection: lower than 25 ug/l (unless indicated otherwise)

Quantification limit: 25 ug/l

ND - Under detection limit.

1) Method limit of detection 40 ug/l.

2) Method limit of detection 60 ug/l.

Date Reported: 3/29/84

S.C. McLendon, P.E. Lab Director

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

R-140

HOLZMACHER, McLENDON & MURRELL, P.C. • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

Client Name and Address

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Sanitary Cesspool Hsy

Lab. No. 452022, 452023

Sample Description:
DEC ID# E-184-207-04

Date Sampled: 2/21/84
Time Sampled:
Collected By: RG 99

PRIORITY POLLUTANTS

PURGEABLE ORGANICS

COMPOUND	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl chloride	ND
Chloroethane	ND
Methylene chloride	ND
Trichlorofluoromethane	ND
1,1-dichloroethene	ND
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	ND
1,2-dichloroethane	ND
1,1,1-trichloroethane	ND
Carbon tetrachloride	ND
Bromodichloromethane	ND
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	ND
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	700
Chlorobenzene	ND
Ethylbenzene	ND
Acrolein 1)	ND
Acrylonitrile 1)	ND

Method limit of detection: lower than 100 ug/l

Quantification limit: 100 ug/l

ND - Under detection limit

* - Detected, but less than 100 ug/l

1) Method limit of detection: lower than 1000 ug/

Detection limits modified due to sample dilution.

RECEIVE
JUL 1 0 1984
BUREAU OF WATER RESEARCH
DIVISION OF PURE WATERS

Date Reported: 7/5/84

S.C. McLendon, P.E., Lab Director

R-141

H2M

HOLZMACHER, McLENDON & MURRELL, P.C. • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

ient Name and Address

Y.S. DEC
Wolf Road
Albany, NY 12233

Alsy

Lab. No. 452022, 452023

Sample Description:
DEC ID #E-184-207-04

Date Sampled: 2/21/84
Time Sampled:
Collected By: WO 99

RIORITY PURGEABLE ORGANICS POLLUTANTS

COMPOUND		ug/l
Chloromethane		ND
Bromomethane		ND
Vinyl chloride		ND
Chloroethane		ND
Methylene chloride		19
Trichlorofluoromethane		ND
1,1-dichloroethene		ND
1,1-dichloroethane		ND
Cis/Trans-1,2-dichloroethene		ND
Chloroform		ND
1,2-dichloroethane		ND
1,1,1-trichloroethane		ND
Carbon tetrachloride		ND
Bromodichloromethane		ND
1,2-dichloropropane		ND
Trans-1,3-dichloropropene		ND
Trichloroethene		ND
Dibromochloromethane		ND
1,1,2-trichloroethane		ND
Cis-1,3-dichloropropene		ND
Benzene		ND
2-chloroethylvinyl ether		ND
Bromoform		ND
1,1,2,2-tetrachloroethane		ND
Tetrachloroethene		ND
Toluene	2)	> 600
Chlorobenzene		ND
Ethylbenzene		*
Acrolein	1)	ND
Acrylonitrile	1)	ND

Method limit of detection: lower than 10 ug/l

Quantification limit: 10 ug/l

ND - Under detection limit

* - Detected, but less than 10 ug/l

1) Method limit of detection: lower than 100 ug/l

2) Exceeds instrument linearity.

SEE AMENDED REPORT ATTACHED

Date Reported: 6/20/84

Overflowing Sanitary Cesspool
On North side of Bldg

S.C. McLendon, P.E., Lab Director

D-147

Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL, P.C.
[illegible] BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040
WATER RESOURCES • WATER SUPPLY & [illegible]ATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • [illegible]ATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

LAB NO. 452025

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.

50 WOLF ROAD

ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84

COLLECTED BY WO 99
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS
DEC ID #E-184-207-04
LIQUID SAMPLE

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	4.00#	SILVER	<0.02
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	0.39
CHROMIUM	<0.02		
COPPER	0.05		
LEAD	78.0 #		
MERCURY	<0.50#		
NICKEL	<0.02		

Received from: Nassau Co. Dept. of Health

RECEIVED 1984 NCDH BLRM

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/84

S. C. McLENDON, P.E., LABORATORY DIRECTOR

LIABILITY OF H2M CORP. SHALL BE LIMITED TO THE COST OF THE SERVICE HEREUNDER PAID

HOLZMACHER McLENDON & MURRELL, P.C. • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

Client Name and Address
N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

* Re-reported sample due to dilution Alsy
Plating line Overflow

Lab. No. 452020/452021
Amended report, replaces 6/20/84
Sample Description:
DEC ID#E-184-207-02

Date Sampled: 2/21/84
Time Sampled:
Collected By: WO 99

PRIORITY POLLUTANTS

PURGEABLE ORGANICS

COMPOUND	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl chloride	ND
Chloroethane	ND
Methylene chloride	ND
Trichlorofluoromethane	ND
1,1-dichloroethene	400
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	ND
1,2-dichloroethane	ND
1,1,1-trichloroethane	74,000
Carbon tetrachloride	ND
Bromodichloromethane	ND
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	ND
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	5100
Chlorobenzene	ND
Ethylbenzene	200
Acrolein 1)	ND
Acrylonitrile 1)	ND

Method limit of detection: lower than 100 ug/l

Quantification limit: 100 ug/l

ND - Under detection limit

1) Method limit of detection: lower than 1000 ug/l

Detection limits modified due to sample dilution

Date Reported: 7/13/84

S.C. McLendon, P.E., Lab Director

R-144

H2M

7/30 - Samples run w/dilution to be forwarded HS

WJB

HOLZMACHER, McLENDON & MURRELL, P.C. • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

ent Name and Address

N.Y.S. DEC
50 Wolf Road
lbany, NY 12233

Alsy

Lab. No. 452020, 452021

Sample Description:
DEC ID#~~R~~E-184-207-02

Date Sampled: 2/21/84
Time Sampled:
Collected By: WO 99

RIORITY PURGEABLE ORGANICS POLLUTANTS

COMPOUND		ug/l
Chloromethane		ND
Bromomethane		ND
Vinyl chloride		*
Chloroethane		ND
Methylene chloride		49
Trichlorofluoromethane		ND
1,1-dichloroethene		600
1,1-dichloroethane		16
Cis/Trans-1,2-dichloroethene		ND
Chloroform		*
1,2-dichloroethane		ND
1,1,1-trichloroethane	2)	> 600
Carbon tetrachloride		ND
Bromodichloromethane		ND
1,2-dichloropropane		ND
Trans-1,3-dichloropropene		ND
Trichloroethene		*
Dibromochloromethane		ND
1,1,2-trichloroethane		13
Cis-1,3-dichloropropene		ND
Benzene		*
2-chloroethylvinyl ether		ND
Bromoform		ND
1,1,2,2-tetrachloroethane		ND
Tetrachloroethene		ND
Toluene	2)	> 600
Chlorobenzene		ND
Ethylbenzene		240
Acrolein	1)	ND
Acrylonitrile	1)	ND

Method limit of detection: lower than 10 ug/l

Quantification limit: 10 ug/l

ND - Under detection limit

* - Detected, but less than 10 ug/l

1) Method limit of detection: lower than 100 ug/l

2) Exceeds instrument linearity.

SEE AMENDED REPORT ATTACHED

Date Reported: 6/20/84

Overflow from Plating line

S.C. McLendon, P.E., Lab Director

R - 145

H2M
Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

S1.87P

LAB NO. 45201

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84

COLLECTED BY WO
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS
DEC ID #E-184-207-02
LIQUID SAMPLE
Alsy Mfg - Plating line overflow

Received from: Nassau Co. Dept. of Health

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	..2.00#
ARSENIC	57.0 # limit 50.0#	SILVER	0.03
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	9.12 limit 5.0
CHROMIUM	<0.02		
COPPER	59.9 limit 1.0		
LEAD	120.# limit 50.0#		
MERCURY	<0.50#		
NICKEL	29.2 limit 2.0		

RECEIVED
APR 06 1984
NCDH
BLRM

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/8

S. C. McLENDON, P.E., LABORATORY DIRECTOR

R-146

LIABILITY OF H2M CORP SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID

H2M
Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL, P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694 3040
WATER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
MODEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

5/88

LAB NO. 452019
PROJECT NO. 2C
COLLECTED BY WO 99

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 2/21/84
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS
DEC ID #E-184-207-03
LIQUID SAMPLE
Also MP3 - SPDES [illegible] - 2nd CP

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	10.5 #	SILVER	<0.02
BERYLLIUM	<0.02	THALLIUM	<0.20
CADMIUM	<0.02	ZINC	1.69
CHROMIUM	<0.02		
COPPER	6.30 limit 1.0		
LEAD	111.# limit 50.0#		
MERCURY	<0.50#		
NICKEL	42.7 limit 1.0		

Received from: Nassau Co. Dept. of Health

RECEIVED
APR 06 1984
NCDH
BLRM

RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/84

S. C. McLENDON, P.E., LABORATORY DIRECTOR

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS ENVIRONMENTAL SCIENTISTS and PLANNERS
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

Alsy

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 452016
Sample: DEC ID# E-184-207-01
Date Sampled: 2/21/84
Collected By: RG 99

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

ACID EXTRACTABLE PRIORITY POLLUTANTS

Compound	ug/l
2-Chlorophenol	ND
2-Nitrophenol	ND
Phenol	ND
2,4-Dimethylphenol	ND
2,4-Dichlorophenol	ND
2,4,6-Trichlorophenol	ND
4-Chloro-3-methylphenol	ND
2,4-Dinitrophenol	2) ND
2-Methyl-4,6-dinitrophenol	2) ND
Pentachlorophenol	ND
4-Nitrophenol	1) ND

Method limit of detection: lower than 25 ug/l (unless indicated otherwise)

Quantification limit: 25 ug/l

ND - Under detection limit.

1) Method limit of detection 40 ug/l.

2) Method limit of detection 60 ug/l.

Date Reported: 8/13/84

S.C. McLendon, P.E. Lab Director

HOLZMACHER, McLENDON & MURRELL, P.C. • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 • (516) 694-3040
APPROVED DRINKING WATER LABORATORY IN NEW YORK, NEW JERSEY & CONNECTICUT

Client Name and Address

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

SPDES Outfall 001
1st Cesspool

Alsy

Lab. No. 452014, 452015

Sample Description: DEC ID#E-184-207-01

Date Sampled: 2/21/84
Time Sampled:
Collected By: RG 99

PRIORITY PURGEABLE ORGANICS POLLUTANTS

COMPOUND	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl chloride	ND
Chloroethane	ND
Methylene chloride	ND
Trichlorofluoromethane	ND
1,1-dichloroethene	300
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	ND
1,2-dichloroethane	ND
1,1,1-trichloroethane	42000
Carbon tetrachloride	ND
Bromodichloromethane	ND
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	ND
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	6600
Chlorobenzene	ND
Ethylbenzene	900
Acrolein 1)	ND
Acrylonitrile 1)	ND

Method limit of detection: lower than 100 ug/l

Quantification limit: 100 ug/l

ND - Under detection limit

* - Detected, but less than 100 ug/l

1) Method limit of detection: lower than 1000 ug/l

Detection limits modified due to sample dilution.

RECEIVED
JUL 1 2 1984
BUREAU OF WATER RESEARCH
DIVISION OF PURE WATERS

Date Reported: 7/5/84

S.C. McLendon, P.E., Lab Director

R-149

H2M Environmental Engineers & Scientists
HOLZMACHER McLENDON and MURRELL P.C.
575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 (516) 694-3040

ER RESOURCES • WATER SUPPLY & TREATMENT • SEWERAGE & TREATMENT • ECOLOGICAL & IMPACT STUDIES
DEL STUDIES • PILOT PLANT STUDIES • WATER/WASTE WATER LABORATORY AND ANALYTICAL SERVICES

LABORATORY REPORT

S1.86P

LAB NO. 452017
PROJECT NO. 2C

NT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONV.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
COLLECTED BY RO 99
DATE COLLECTED - 2/21/84
DATE RECEIVED - 2/21/84

PRIORITY POLLUTANT METALS & CYANIDE
DEC ID #E-184-207-01
LIQUID SAMPLE
Alsy MRg - SUDES outfall - first CP

RAM-ER	RESULT	PARAM-ETER	RESULT
NTI-MONY	<0.20	SELEN-IUM	4.00#
ENIC	34.0 #	SILVER	0.03
RYL-LIUM	<0.02	THAL-LIUM	<0.20
MIUM	<0.02	ZINC	6.23 limit 5.0
ROM-IUM	0.02	CYANIDE	0.96 limit 0.40
PPER	18.0 limit 1.0		
LEAD	0.60 limit 0.05		
CURY	<0.50 #		
CKEL	88.5 limit 2.0		

RECEIVED
22 26 1984
NCDH
BLRM

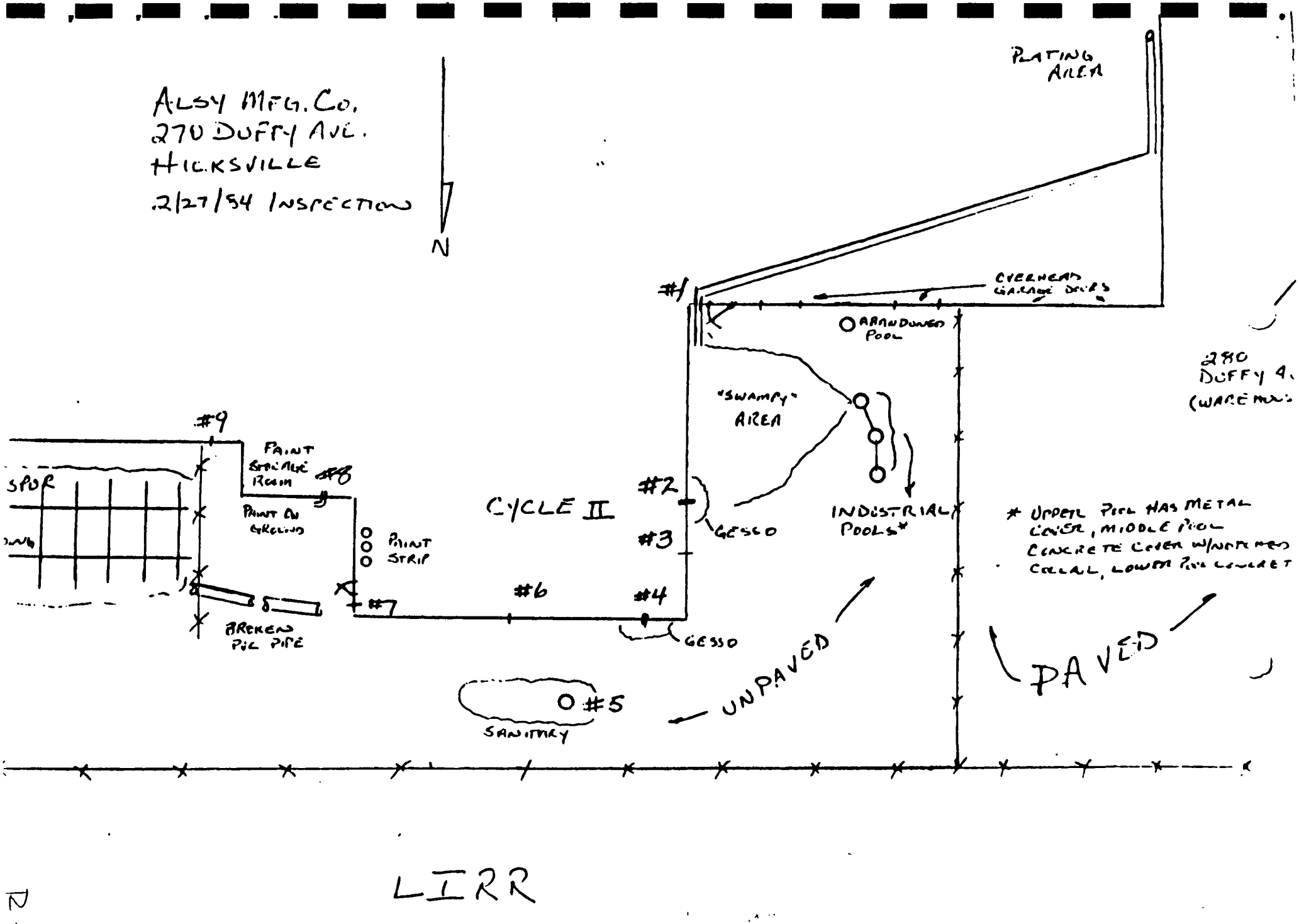
Received from:
Nassau Co. Dept. of Health

Appendix 1.1-15

RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 3/ 7/84

S.C. McLENDON, P.E., LABORATORY DIRECTOR


ALSY MFG. CO.
270 DUFFY AVE.
HICKSVILLE
2/27/94 INSPECTION
N
PLATING AREA
OVERHEAD GARAGE DOORS
#1
ABANDONED POOL
280 DUFFY A
(WAREHOUSE
"SWAMPY" AREA
#9
PAINT STRIPPING ROOM
#8
PAINT ON GROUND
PAINT STRIP
#7
BROKEN PVC PIPE
CYCLE II
#2
#3
#6
#4
GESSO
GESSO
INDUSTRIAL POOLS*
* UPPER POOL HAS METAL COVER, MIDDLE POOL CONCRETE COVER W/NOTCHED COLLAR, LOWER POOL CONCRETE
UNPAVED
PAVED
#5
SANITARY
LIRR

D-15

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent :
Address:

Inspector

DATE	COMMENTS
	will be sent to him outlining our findings and our requirements for correction. He asked if it was alright for him to install a new leaching pool to correct the sanitary overflow. I answered affirmative with the stipulation that he not fill in the existing pool since samples taken from it by SEC on 2/21/84 might indicate chemical contamination which might require re-excavation. We left the site at approximately 3 PM.
	The attached drawing is based on rough field notes and may require revision. It is mainly meant to be an aid in inspection and sampling. Numbered locations on drawing refer to text.
	Howard Scheff

R-152

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent :
Address:

Inspector

DATE	COMMENTS
	outside. Two sections of PVC pipe were laying on the ground. These sections pointed toward the railroad siding behind the plant and to the pipe draining this sink. It appeared that this pipe may have been connected to the sink drain at one time.
	8- The wall in this area makes another right angle bend and becomes the north wall of the paint storage room. A PVC pipe and elbow were seen protruding from this wall. Inspection of the inside of the wall showed no origin for this pipe. It is believed that this is no longer in use. The ground in this area was partially covered with paint. Some of the area appeared to have been recently cleaned.
	9- A second sprinkler drain was noted on a north wall adjacent to the railroad siding.
	The railroad siding is below the grade where the inspection took place. A water accumulation was noted in the siding about to the level of the top of the rails. The water appeared clean.
	After the inspection a brief meeting was held in Mr. Ehrenfeld's office. He was told that a letter

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent :
Address:

Inspector

DATE

COMMENTS

4- Along the north wall of the CYCLE II operation another pipe similar to #2 above was noted. The ground in this area was also covered with "Geso". This pipe was traced to a double sink inside the building. The operation here is similar to #2 above.

5- The sanitary leaching system is located in this area adjacent to the railroad embankment. The leaching pool was overflowing and had created a pond several inches deep in this area.

6- Further east along the north wall a sprinkler system drain was noted.

7- At the northeast corner of CYCLE II on the east wall another pipe was noted. This was traced to a sink on this wall in the paint stripping area. In this operation glass lamp parts which have been improperly painted are placed first in a drum containing an acid paint stripper. The part is then rinsed with a hose into another drum to remove the acid/paint left on the glass. The drum used for this purpose is an open 55 gallon drum which appeared to have been used many times. Material collected in this drum is removed by a scavenger. The glass part is then washed in the sink. The discharge is to the ground

[illegible] WASTE REPORT

[illegible] Resources Management

[illegible]au County Department of Health

Name: ✓ 00211

ALSU MANUFACTURING INC

Permit No.: [illegible] # [illegible]

Address: [illegible]

Report Period: 1/1/85-[illegible]

[illegible]t all waste generating chemicals and/or solvents purchased during the reporting period. [illegible]cate for each the purpose or use, trade name or supplier and the quantity purchased.

Name of Chemical or Solvent	Purpose or Use	Trade Name or Supplier	Quantity Purchased
[illegible]	PAINT THINNING	[illegible] SOLVENT # [illegible]	660g
[illegible]TONE	PAINT CLEANING + WASHING	[illegible] SOLVENT # [illegible]	165g
[illegible]ERAL SPIRITS	PARTS WASHING	PRIDE SOLVENT # [illegible]	
[illegible]SH THINNER	PAINT STRIPPING (CLEANING)	FYN PAINT # [illegible]	
[illegible]CKEL [illegible]	NICKEL PLATING	ENEQUIST # [illegible]	
[illegible]	NICKEL PLATING	ENEQUIST # [illegible]	
[illegible] CYANIDE	BRASS PLATING	CYANOGRAM + KURTS + WOLF # [illegible]	200lbs
[illegible]PPER CYANIDE	BRASS PLATING	KURTS + WOLF # [illegible]	200lbs
[illegible] CYANIDE	BRASS PLATING	KURTS + WOLF # [illegible]	
[illegible]PPER SULPHATE	BRASS PLATING	KURTS + WOLF # [illegible]	
[illegible]LD STRIPPER	PARTS STRIPPING (CLEANING)	HATCHIN # [illegible] + [illegible]	660g
[illegible]CKEL METAL	ANODES - NICKEL PLATING	ENEQUIST # [illegible]	800lbs
[illegible]RASS METAL	ANODES - BRASS PLATING	ENEQUIST # [illegible]	250lbs
[illegible]ACQUER THINNER	PAINT APPLICATION	AGATEEN #	2255g
TRICHLORETHANE	DEGREASING	PRIDE #	6875g

[illegible]

continued on reverse

FRANCIS T. PURCELL
COUNTY EXECUTIVE

NASSAU COUNTY
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD
MINEOLA, NEW YORK 11501

JOHN J. DOWLING M.D., M.P.H.
COMMISSIONER

FRANCIS V. PADAR, P.E., M.C.E.
DEPUTY COMMISSIONER
DIVISION OF ENVIRONMENTAL HEALTH

May 6, 1986

Rebecca Ligotino
E A Science and Technology
R.D. 2, Box 91
Goshen Turnpike
Middletown, New York 10940

Re: Alsy Mfg. Co.

Dear Ms. Ligotino:

After reviewing your interview summary and site sketch I have the following comments:

1. In the first paragraph you indicate that cleanup took place. As far as we are aware the only cleanup was of the three industrial leaching pools. No cleanup or investigation has been conducted of any of the surface areas which received unpermitted discharges or bypasses.

2. In the second paragraph reference is made to the practice of pumping industrial wastes to stormwater drywells. While this was never observed by the Health Department, I believe it was observed by Carl Vernick of Soil Mechanics. This may be a way to confirm this practice.

3. Also in the second paragraph, reference is made to the various colors found in the soil near the paint shop. While these colors may have been caused by paint stripping, it is also possible that metals used in the plating operation may be responsible. We have heard that the plating tanks were drained at times and may have allowed concentrated material to enter the discharge stream.

4. On the drawing, I indicated three areas by asterisks. These were the location of sinks which discharged through pipes onto the ground outside the building. DEC samples of the ground in these areas indicated the presence of lead.

Other than the above comments, the summary is an accurate record of the meeting. Please contact me if you have any questions.

00-00-103 (6/78)

New York State Department of Environmental Conservation

MEMORANDUM

TO: [redacted]/G. Donohue, NCDH

FROM: A. Yerman

SUBJECT: Alsy Manufacturing Inc: Consent Order

DATE: 9/25/84

Pls. review & comment.

RECEIVED

OCT 3 1984

NASSAU COUNTY
DEPARTMENT OF HEALTH

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Environmental Engineers & Scientists
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LABORATORY REPORT

LAB NO. 554815
PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ALSY MFG. CO.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 4/12/85
COLLECTED BY RSI 03
DATE RECEIVED - 4/12/85

EP TOX METALS

LAB NO.	SAMPLE ID INFORMATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY
554815	FIRST PILE N.W.	<20.0 *	0.40	0.02	<0.02	0.10	<0.50*
554816	PILE #2 EAST	<20.0 *	0.30	<0.02	<0.02	<0.10	<0.50*

REMARKS - ALL BILLS & REPORTS TO RSI

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY * (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)

DATE REPORTED 4/18/8

Environmental Engineers & Scientists
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LABORATORY REPORT

LAB NO. 554819
PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ASLY MFG.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - INDUSTRIAL WASTE
DATE COLLECTED - 4/12/85
COLLECTED BY RSI 03
DATE RECEIVED - 4/12/85

EP TOX METALS
FILTERED

Not EP Tox

LAB NO.	SAMPLE ID INFORMATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY
554819	EAST - 1ST POOL	38.0 *	<0.20	<0.02	<0.02	<0.10	<0.50*
554820	WEST - 1ST POOL	<20.0 *	<0.20	<0.02	<0.02	<0.10	<0.50*
554821	WEST - 2ND POOL	<20.0 *	<0.20	<0.02	<0.02	<0.10	0.60*

REMARKS - ALL BILLS & REPORTS TO RSI

* RESULTS IN (MG/L) EXCEPT AS NOTED BY * (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 4/17/85

S. C. McLENDON, P.E., LABORATORY DIRECTOR

THE LIABILITY OF HMM CORP. ...

H2M
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LABORATORY REPORT

LAB NO. 554819
PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ASLY MFG.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - INDUSTRIAL WASTE COLLECTED BY RSI 03
DATE COLLECTED - 4/12/85 DATE RECEIVED - 4/12/85

EP TOX METALS
FILTERED

AB NO.	SAMPLE ID INFORMATION	SELEN-IUM	SILVER	ALUMI-NUM	NICKEL	COPPER	ZINC
54819	EAST - 1ST POOL	30.0 #	<0.02	<0.20	1.06	3.19	0.06
54820	WEST - 1ST POOL	<20.0 #	<0.02	<0.20	0.23	0.18	0.11
54821	WEST - 2ND POOL	<20.0 #	<0.02	<0.20	0.24	0.37	0.07

REMARKS - ALL BILLS & REPORTS TO RSI

L RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)

DATE REPORTED 4/17/85

J. M. Sh...

H2M
Environmental Engineers & Scientists
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LABORATORY REPORT

LAB NO. 554822
PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ALSY MFG.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - INDUSTRIAL WASTE
COLLECTED BY RSI 03
DATE COLLECTED - 4/12/85
DATE RECEIVED - 4/12/85

SPECIAL WASTE SAMPLES

LAB NO.	SAMPLE ID INFORMATION	SELENIUM	SILVER	ALUMINUM	NICKEL	COPPER	ZINC
54822	EAST POOL #1	30.0 *	<0.02	0.40	1.46	3.67	0.33
54823	WEST - 1ST POOL	<20.0 *	<0.02	0.20	0.86	0.47	0.23
54824	WEST - 2ND POOL	<20.0 *	<0.02	<0.20	3.56	1.20	0.57
54825	DRY WELL	<20.0 *	<0.02	0.80	0.46	0.14	0.07

REMARKS - ALL BILLS & REPORTS TO RSI

L. RESULTS IN (MG/L) EXCEPT AS NOTED BY * (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)

DATE REPORTED 4/17/85

J. M. Allen

H2M
Environmental Engineers & Scientists
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LABORATORY REPORT

LAB NO. 554822
PROJECT NO. ALSY 85-01

CLIENT'S NAME AND ADDRESS

ALSY MFG.
270 DUFFY AVE
HICKSVILLE, NY

TYPE OF SAMPLE - INDUSTRIAL WASTE COLLECTED BY RSI 03
DATE COLLECTED - 4/12/85 DATE RECEIVED - 4/12/85

SPECIAL WASTE SAMPLES

AB NO.	SAMPLE ID INFORMATION	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY
54822	EAST POOL #1	42.0 $	<0.20	<0.02	0.02	<0.10	<0.50$
54823	WEST - 1ST POOL	<20.0 $	<0.20	<0.02	0.02	<0.10	<0.50$
54824	WEST - 2ND POOL	<20.0 $	<0.20	<0.02	<0.02	<0.10	<0.50$
54825	DRY WELL	<20.0 $	<0.20	<0.02	<0.02	<0.10	<0.50$

REMARKS - ALL BILLS & REPORTS TO RSI

.L RESULTS IN (MG/L) EXCEPT AS NOTED BY $ (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)

DATE REPORTED 4/17/85

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

Alsy Mfg.
270 Duffy Ave.
Hicksville, NY 11803

Lab. No. 554814
Type Water Misc.
Sampling Pt. Alsy W. Second Pool

Date Sampled 4/12/85
Collected By RSI 03

VOLATILE HALOGENATED	ug/l
vinyl chloride	< 10
dichlorodifluoromethane	< 10
methylene chloride	< 10
trichlorofluoromethane	< 10
1,1-dichloroethylene	< 10
1,1-dichloroethane	< 10
trans-1,2-dichloroethylene	< 10
cis-1,2-dichloroethylene	< 10
chloroform	< 10
1,1,2-trichlorotrifluoroethane	< 10
1,2-dichloroethane	< 10
1,1,1-trichloroethane	< 40
carbon tetrachloride	< 10
bromodichloromethane	< 10
1,2-dichloropropane	< 10
2,3-dichloropropene	< 10
trans-1,3-dichloropropene	< 10
trichloroethylene	< 10
1,1,2-trichloroethane	< 10
chlorodibromomethane	< 10
cis-1,3-dichloropropene	< 10
bromoform	< 10
1,1,1,2-tetrachloroethane	< 10
tetrachloroethylene	< 10
1,1,2,2-tetrachloroethane	< 10
chlorobenzene	< 10
VOLATILE NON-HALOGENATED	
benzene	< 10
toluene	< 10
ethylbenzene	< 10
m-xylene	< 10
p-xylene	< 10
o-xylene	< 10

* Reported value represents total.
Results reported meet N.Y.S.
Drinking Water Limits.

Date Reported: 4/17/85

S.C. McLendon, P.E.
Laboratory Director

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CLIENT NAME AND ADDRESS

Alsy Mfg.
270 Duffy Ave.
Hicksville, NY 11803

Lab. No. 554813
Type Water Misc.
Sampling Pt. Alsy E. Pool

Date Sampled 4/12/85
Collected By RSI 03

VOLATILE HALOGENATED	ug/l
vinyl chloride	< 10
dichlorodifluoromethane	< 10
methylene chloride	< 10
trichlorofluoromethane	< 10
1,1-dichloroethylene	< 10
1,1-dichloroethane	< 10
trans-1,2-dichloroethylene	< 10
cis-1,2-dichloroethylene	< 10
chloroform	< 10
1,1,2-trichlorotrifluoroethane	< 10
1,2-dichloroethane	< 10
1,1,1-trichloroethane	< 10
carbon tetrachloride	< 10
bromodichloromethane	< 10
1,2-dichloropropane	< 10
2,3-dichloropropene	< 10
trans-1,3-dichloropropene	< 10
trichloroethylene	< 10
1,1,2-trichloroethane	< 10
chlorodibromomethane	< 10
cis-1,3-dichloropropene	< 10
bromoform	< 10
1,1,1,2-tetrachloroethane	< 10
tetrachloroethylene	< 10
1,1,2,2-tetrachloroethane	< 10
chlorobenzene	< 10
VOLATILE NON-HALOGENATED	
benzene	< 10
toluene	< 10
ethylbenzene	< 10
m-xylene	< 10
p-xylene	< 10
o-xylene	< 10

* Reported value represents total.
Results reported meet N.Y.S.
Drinking Water Limits.

Date Reported: 4/17/85

S.C. McLendon, P.E.
Laboratory Director

SUBSOIL INVESTIGATIONS

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

REPORT NO. 84-536CA

IENT TUCKER/GELLMAN & MULDERIG

ADDRESS 285 Madison Avenue
New York, N.Y. 10017

AMPLE Water

OCATION Balatem Corp, Hicksville, N.Y.

MPLED BY SOIL MECHANICS DRILLING CORP.

DELIVERED BY SOIL MECHANICS DRILLING CORP.

PE TEST Chemical Analysis

AMPLE NO.

REPORT TO TUCKER/GELLMAN & MULDERIC
Att: Mr. J. Gellman

LABORATORY REPORT

RESULTS IN (mg/l)	SAMPLE IDENTIFICATION A	B	C	ALLOWABLE DISCHARGE STANDARDS
Antimony	< 0.10	< 0.10	< 0.10	
Arsenic	0.002	< 0.001	< 0.001	.05
Beryllium	< 0.003	< 0.003	< 0.003	
Cadmium	0.006	< 0.003	< 0.003	.02
Chromium	< 0.010	< 0.010	< 0.010	.10
Copper	0.884	1.149	0.071	1.0
Lead	< 0.025	< 0.025	< 0.025	.05
Mercury	0.0010	0.0009	0.0013	.004
Nickel	1.481	17.180	0.095	2.0
Selenium	0.001	0.001	< 0.001	.04
Silver	< 0.006	< 0.006	< 0.006	.1
Thallium	< 0.05	< 0.05	< 0.05	
Zinc	0.143	0.251	0.081	5.0

< = Less Than

COPIES:

DATED: December 4, 1984

BY: Carl Vernick, President

HOLZMACHER, McLENDON and MURRELL, P.C.
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LABORATORY REPORT

LAB NO. 461861
PROJECT NO. 2C

ENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONS.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
DATE COLLECTED - 8/ 1/84
COLLECTED BY WO 99
DATE RECEIVED - 8/ 1/84

PRIORITY POLLUTANT METALS
DEC I.D. #E-184-207-11
LIQUID SAMPLE
Alsy

AM-ER	RESULT	PARAM-ETER	RESULT
NTI-MONY	<0.20	SELEN-IUM	4.00#
ENIC	90.0 # limit 50.0#	SILVER	<0.02
RYL-LIUM	<0.02	THAL-LIUM	<0.10
MIUM	<0.02	ZINC	3.67
ROM-IUM	0.10		
PPER	11.8 limit 1.0		
LEAD	96.5 # limit 50.0#		
CURY	<0.50#		
CKEL	42.9 limit 2.0		

RECEIVED FROM ... DIVISION OF ENVIRONMENTAL ENFORCEMENT WHITE PLAINS

RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/19/84

S.C. McLENDON, P.E., LABORATORY DIRECTOR

ILITY OF H2M CORP. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

H2M

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

Alsy

CLIENT NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 461859/461860
Sample: E-184-207-11

Date Sampled: 8/1/84
Collected By: WO 99

PURGEABLE ORGANICS PRIORITY POLLUTANTS

Compound	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl Chloride	ND
Chloroethane	ND
Methylene chloride	NA
Trichlorofluoromethane	ND
1,1-dichloroethene	ND
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	190
1,2-dichloroethane	ND
1,1,1-trichloroethane	ND
Carbon Tetrachloride	ND
Bromodichloromethane	170
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	70
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	780
Chlorobenzene	ND
Ethylbenzene	55
Acrolein	1) ND
Acrylonitrile	1) ND

Method limit of detection: lo than 10 ug/l.

Quantification limit: 10 ug/l.

ND - Not detected.

* - Detected, but less than 10 ug/l.

1) Method limit of detection lower than 100 ug/l.

NA - Not Analyzed due to high background interference.

Date Reported: 9/27/84

OCT 22 1984
DEC REGION 1

S.C. McLendon, P.E.
Laboratory Director

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

H2M
Environmental Engineers & Scientists
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LABORATORY REPORT

LAB NO. 161864
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

N.Y.S. DEPT. OF ENV. CONS.
50 WOLF ROAD
ALBANY, NY 12233

TYPE OF SAMPLE - MISCELLANEOUS
COLLECTED BY WO 95
DATE COLLECTED - 8/ 1/84
DATE RECEIVED - 8/ 1/84

PRIORITY POLLUTANT METALS
DEC I.D. #E-184-207-13
LIQUID SAMPLE

Alsy

RECEIVED
OCT 18 1984
BUREAU OF WATER RESEARCH
DIVISION OF WATER

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
LABORATORY
WHITE PLAINS

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<0.20	SELENIUM	<2.00#
ARSENIC	22.0 #	SILVER	<0.02
BERYLLIUM	<0.02	THALLIUM	<0.10
CADMIUM	<0.02	ZINC	1.85
CHROMIUM	0.03		
COPPER	4.38	limit 1.0	
LEAD	3.10#		
MERCURY	<0.50#		
NICKEL	68.0	limit 2.0	

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/19/84

H2M

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

CLIENT NAME AND ADDRESS

N.Y.S. DEC
50 Wolf Road
Albany, NY 12233

Lab No. 461862/461863
Sample: #E-184-207-13

Date Sampled: 8/1/84
Collected By: WO 99

PURGEABLE ORGANICS PRIORITY POLLUTANTS

Compound	ug/l
Chloromethane	ND
Bromomethane	ND
Vinyl Chloride	ND
Chloroethane	ND
Methylene chloride	NA
Trichlorofluoromethane	ND
1,1-dichloroethene	NA
1,1-dichloroethane	ND
Cis/Trans-1,2-dichloroethene	ND
Chloroform	380
1,2-dichloroethane	ND
1,1,1-trichloroethane	NA
Carbon Tetrachloride	ND
Bromodichloromethane	190
1,2-dichloropropane	ND
Trans-1,3-dichloropropene	ND
Trichloroethene	ND
Dibromochloromethane	ND
1,1,2-trichloroethane	ND
Cis-1,3-dichloropropene	ND
Benzene	88
2-chloroethylvinyl ether	ND
Bromoform	ND
1,1,2,2-tetrachloroethane	ND
Tetrachloroethene	ND
Toluene	2500
Chlorobenzene	ND
Ethylbenzene	34
Acrolein	1) ND
Acrylonitrile	1) ND

Method limit of detection: lowe than 10 ug/l.

Quantification limit: 10 ug/l.

ND - Not detected.

* - Detected, but less than 10 ug/l.

1) Method limit of detection lower than 100 ug/l.

NA - Not Analyzed due to high background interference.

Date Reported: 9/27/84

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

OCT 22 1984

S.C. McLendon, P.E.
Laboratory Director

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent :
Address:

Inspector

DATE	COMMENTS
	industrial pools, one with a metal cover two with concrete covers. On one of the concrete covered pools it was noticed that the cement collar had been notched to allow any overflow to occur beneath the cover. An old unused leaching pool was inspected. This was adjacent to the north wall and appeared to have been partially backfilled. Some of the visible concrete portion of this pool was seen to have a blue-green color.
	2- North of the PVC Pipe along the west wall of the CYCLE II part of the building we noticed a smaller pipe exiting the building wall about 12" above ground level. The ground beneath the pipe was covered with a white powder called "Gesso". Inside the origin of this pipe was seen to be the drain from a double sink. As noted in R. Willis' 2/22/84 notes this sink is used in the preparation of glass lamp parts.
	3- Further along this same wall approximately 10-15' above the ground a small 3/4" pipe was noted protruding through a window. Steaming water was discharging from this pipe. This pipe was traced inside to the steam heating system. The discharge appeared to be condensate.

R-170

ENVIRONMENTAL
HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent : ALSY MFG. Co. (CYCLE II)
Address: 270 DUFFY AVE
HICKSVILLE

Inspe

DATE

COMMENTS

On 2/27/84 at 1:45 PM R. Willis and H. Schau
inspected this site to prepare a drawing of the
unpermitted discharge points noted in inspections ma
on 2/21/84 and 2/22/84. We met Jack Ehrenfeld wh
conducted a tour of the operations leading to each discharg

1 - 2"-3" DIAMETER PVC PIPE LOCATED AT REAR OF ALSY OPERATION
This pipe was actively discharging at the time of th
inspection. It originates on the west wall of the
building behind the plating tanks. The tanks are
on a raised platform adjacent to the wastewater
treatment system. A trench surrounds this area
and is used to receive the discharge from the
treatment system as well as any over spray from
rinsing or any other spilled material. Liquid
collected in the trench runs by gravity and
the floor to the industrial leaching system
which consists of three pools in series. When the
leaching system becomes overloaded a pump is
turned on and the contents of the trench are
pumped through this pipe up, across the ceiling
and over to its exit point on the north wall
adjacent to a door. The discharge from the pipe
runs across the ground and pools. A swampy
area has been created by this discharge as noted
in R Willis' report of 2/22/84. Inspection of this
area revealed the following - there are three.

EH 1/56

MEMORANDUM

Appendix 1-14

NASSAU COUNTY DEPARTMENT OF HEALTH

240 Old Country Road - Mineola, New York 11501

To : Peter Mancuso
Assistant District Attorney

Date: May 23, 1984

From : Department of Health

Received from:
Nassau Co. Dept. of Health

Subject : Alsy Manufacturing Co., Hicksville

In accordance with your recent request for a site diagram of the above reference company, to help determine the locations of DEC sampling points noted in the DEC inspection report of Bob Gillo and William O'Brien, attached is a copy of an NCHD continuation sheet describing a 2-27-84 inspection at Alsy. Part of the inspection report is a site diagram describing the location of various spills and disposal systems.

While the attached diagram does not specifically note the DEC sampling locations by number, it should be of some help. If not, I suggest you speak directly to Howard Schaefer (ext. 2284) of this department's Bureau of Land Resources Management, since he is the most familiar with this site and DEC's actions.

Gerard E. Donohue

Gerard E. Donohue, M.C.E.,P.E.
Deputy Director
Division of Environmental Health

GED:sp
Attach.

RECEIVED
MAY 24 1984
NCDH
BLRM

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent : Alsy
Address: 270 Duffy Ave Hicksville

Inspector

DATE

COMMENTS

In the rear of the building three drums were full of what seemed to be paint waste. The drums were not labeled, they were on bare ground and it appeared that paint waste was being dumped or overflowed onto the ground. At this area a trench was dug and liquid waste would flow through the trench and into the water that had accumulated in the railroad spur area. It appeared that when these 55 gal drums were full that may had been tipped over and the paint ran out into the trench.

This paint waste originates from the operation by the name of Cycle II corporation. It is in the same bldg. as Alsy. ~~This~~ Mr. Joseph Stevens (822 2610) (Vice President) of Cycle II was present during the inspection of his operation.

After the inspection Mr. O'Brien + Mr. Gillo and myself came back to the office and conferred with Larry Soma.

H. R. Willis

TH 109a 1/68
H-1198. 9/71

R-177

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent : Elsey
Address: 230 Duffy Ave. Hicksville

Inspector

DATE | COMMENTS

Today 2/22/84 it was not discharging. However there was a wet swampy area appox several inches deep and ~ 25'x25' ft. square. Mr O'Brien & Gillo stated they were told by Mr. Ehrenfeld it was a "roof drain" that was discharging rain water that had accumulated on the roof. Today Mr. Ehrenfeld stated he had said that he meant the pvc pipe ran across the roof and the water coming out was from an operation inside. The source of the pipe was traced to overflow pits in their plating operation. It appeared that untreated plating solutions would overflow and collect in these pits, where a float operated pump would pump it thru the pipe that was approx 150' long and ran along the roof inside.

Two smaller discharge pipes were found and their origin traced to two slop sinks inside. Workers would decorate glass lamps with a compound called "Gesso" which was like a thick paint. The compound was put on rags and the worker would decorate the lamps with the rags. Often employees would go to the sinks and wash their rags and hands with this "Gesso" compound. Mr O'Brien & Mr. Gillo went to contact the worker and get the formulation products of "Gesso".

EH 109a 1/68
DH-1198. 9/71

R-174

NVIRONMENTAL
EALTH
ontinuation Sheet
assau County Health Department

I

Owner or Agent : Alsy

Address: 230 Duffy Ave Hicksville

LS RP — file
Appendix 1.1-13
alsy
Gen. Cons.

ATE	COMMENTS
/82	at their request I met Bill O'Brien and Bob Ellis both from DEC.

Received from:
Nassau Co. Dept. of Health

They had been to Alsy on the 21st of Feb they stated it was a routine type of inspection. They had picked several industries in Nassau County. Upon their inspection they stated approx 4-5 pipes were coming out of the plant and discharging liquid on the top of the ground. The discharges were all located in the rear of the factory on the north and west sides. They also found 2 leaching pool that were near overflowing. A sanitary pool was overflowing at the time, a trench was dug to enable the sanitary waste to drain onto a railroad spur. The railroad spur was in a low area and the water level was above the tracks. This pool that was formed was approx. 40' x 15'. 6 liquid samples, and two soil samples were taken ~~at this time~~ on 2/21/84

.4 A reinspection was made to determine the source of the pipes that were coming thrown the wall of the plant. Present was Mr. Jack Ehrenfeld plant manager. One of the drainage pipes (PVC) approx 3" diameter was discharging a greenish liquid yesterday (2/21/84) onto the ground as stated by Bill O'Brien, + Bob Ellis,

1/68
9/71

SAMPLES COLLECTED BY NYSDEC
at Alsy Mfg. Co., 270 Duffy Ave.
Hicksville on February 21, 1984

Sample Number	Location	Constituents Found
E-184-207-01	First Industrial Leaching Pool Received from: Nassau Co. Dept. of Health	1,1 Dichloroethane 1,1,1 Trichloroethane Toluene Ethylbenzene Copper Lead Nickel Zinc
E-184-207-02	Plating Line Overflow	1,1 Dichloroethane 1,1,1 Trichloroethane Toluene Ethylbenzene Arsenic Copper Lead Nickel Zinc
E-184-207-03	Second Industrial Leaching Pool	Copper Lead Nickel
E-184-207-04	Sanitary Leaching Pool	Lead Toluene
E-184-207-05	Ditch Near Paint Shop	Toluene Ethylbenzene
E-184-207-06	Paint Shop Discharge	Methylene Chloride
E-184-207-07	Pipe on West Side of Cycle II	Cadmium Chromium Lead
E-184-207-08	Pipe on North Side of Cycle II	Cadmium Chromium Lead

On the south side of the ditch, at the top of the embankment, it appeared that white paint had been poured on the ground and vegetation. This paint spill had not been observed in previous inspections. The railroad siding area was still flooded. The waste paint drums had been removed from the outside of the paint shop. Sections of pipe that had previously been scattered around the north side of the building were now lined up on the ground from the paint shop discharge pipe to the embankment above the railroad siding. It appeared as if they intend to pipe this discharge to the siding area.

Robert Gillo
Engineering Technician

William O'Brien
Engineering Technician

Subsequently a discussion was held with Mr. Ehrenfeld and Mr. Stevens in which the following was pointed out that:

1. The overflowing cesspool must be stopped and corrected.

2. The paint waste should not be poured on the ground and that the drums must be kept covered. It was also pointed out that the area should be bermed. When questioned as to how these drums were removed to the drum storage area without spilling, Mr. Stevens stated he didn't know. The drums had two 3 to 4" holes cut in the top and were filled to within a couple of inches of the top.

3. The sink drains could not simply run through a wall and discharge on the ground. They had to be properly connected to a leaching pool.

After leaving Mr Ehrenfled and Mr. Stevens, we went back to the north side of the building with Mr. Willis and took further photographs.

On February 24, 1984 we returned to the site to observe if any progress had been made and to take additional photographs. Mr. Ehrenfeld told us that the overflowing sanitary pool had been pumped out and that he had contracted for the installation of a second pool. He also stated that he was taking bids for either connecting the plating shop overflow to the existing SPDES pools or adding another pool. When questioned about the treatment of the plating discharge, Mr. Ehrenfeld stated that the discharge was treated in tanks in the plating area before it entered the trough in the floor.

We then went around back and observed discharge from the pipe from the plating area. It appeared that a truck had been driven across the back yard to the area of the overflowing sanitary pool. The cover of the sanitary pool was now under water, and the well defined ditch of the previous days had been obliterated. There was now a large irregularly shaped flooded area on the north side of the building. It appeared that the sanitary pool was still overflowing as bubbles were rising from the partially ajar lid, but it could not positively determined if it was the source of the water as it had rained the previous night and was still raining while we were there. The ditch itself was partially filled in down to the area of the paint shop. The pipe from the paint shop was still discharging. The ditch from this pipe north to the main ditch was still flooded and was approximately four feet of the main ditch east of this. Beyond this point, the main ditch was filled in, and concrete rubble had been used to block it at the top of the embankment above the railroad siding.

On February 22, 1984, we returned to the site and went around the north side of the building and took several pictures, all discharges were as on the previous day. When we were near the paint area we were discovered by a plant employee. We then left the site. We meet Robert Willis of the NCDH in front of the building and entered the plant for an inspection. Mr Ehrenfeld took us through the plant. We traced the pipe we previously were told was a roof drain to the area between the plating tanks and the wall. Mr. Ehrenfeld denied telling us it was a roof drain and stated it was an overflow from the trough surrounding the plating area. He also stated it came from a submersible pump in the trough and was treated before discharge. However, this did not seem possible as the pipe appears to simply go from the pump in the trough up to the roof, along the rafters and out the north wall. We then took Mr. Ehrenfeld out and showed him what we had found outside the previous day.

The pipe from the plating area was not discharging. The double pipes on the west wall showed a whitish liquid discharge from one pipe. He stated that these other discharges were from the area occupied by the Cycle II Division. He then took us into this area and introduced us to Joseph Stevens who is Vice President of the Cycle II Division. Mr. Stevens took us through his area. The pipes with the whitish material below them all appear to be hooked into two sinks, which are used to clean up rags and the workers' hands in an area where [illegible] is used to decorate lamp bases. We were told the reason these discharges simply went through the wall, was that they were told to do so previously by a consulting engineer. The small pipe coming out the window discharing hot water is a bleed from the heating system. The pipe discharging in the paint area is also a drain from two sinks in a paint shop, but it was not made clear to us what is washed. At the time we made the inspection they were washing glass tubes for lamps with soap and water. When showed the mess outside the paint shop and the waste paint drums, Mr. Stevens said the mess would be cleaned up and told a worker to cap the drums. At this time we had noticed that someone tried to clean up the excess paint which was on the ground 20 minutes prior to this point. Mr. Stevens claimed to have no knowledge of who tried to clean up the paint mess, and he also stated he had no idea the leaching pool was overflowing or who dug the trench. However, he did confirm it was sanitary waste. Mr. Ehrenfeld then showed us an area on the south side of the building where waste is stored until removed by a scavenger. The area was not bermed, some drums were in a fenced enclosure, while others were not. Most of the approximately 10-12 drums appeared to be properly labeled. We were told that pickups occur monthly (Do they need a Part 360 Permit?) The area of the drum storage showed a greenish stain on the asphalt of a copper as nickle oxide color and several stains of varying colors which appeared to be recent. There was another heating system bleed in this area, but the puddle below it was of an opaque, light green color as described above.

Appendix 1.1-24

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

JOHN J. DOWLING, M.D., M.P.H.
Commissioner

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

FRANCIS T. PURCELL
County Executive

September 27, 1984

Dennis W. Cole
New York State Department
of Environmental Conservation
SUNY, Building 40 - Room 219
Stony Brook, N.Y. 11794

Re: Alsy Mfg. Co.
SPDES NY 0102539

Dear Mr. Cole:

This office has reviewed the draft renewal SPDES Permit for this facility.

We object to the renewal of this permit for the following reasons:

1. Alsy is currently in violation of the following regulation - ECL 17-0803; ECL 17-0505; ECL 17-0501; Part II Sec. 5 & 9 of the SPDES Permit. These violations were outlined in a proposed consent order on July 20, 1984 by A. Yerman.

2. The draft renewal does not address these existing violations.

3. Public sewers are available for this discharge. Alsy is required by the Nassau County Public Health Ordinance to connect the discharge to the sewer by May 1985. We feel that any permit issued in this situation should not run beyond the mandatory sewer connection date. This was recently done in the case of Depew Mfg. Co., also in Hicksville.

Please contact this office at 535-2406 if you require additional information.

Very truly yours,

Howard Schaefer

Howard Schaefer
Bureau of Land Resources
Management

HS:no

CC: G. Robin, NYSDEC

FRANCIS T PURCELL
COUNTY EXECUTIVE

BOARD OF HEALTH

BRUCE A LISTER
CHAIRMAN
NORMA J HENRIKSEN
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LAWRENCE RAVICH M D
SAMUEL M GELFAND M D
JOAN L CAEMMERER

JOHN J DOWLING M D M P H
COMMISSIONER

NASSAU COUNTY
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

May 1, 1984

Received from:
Nassau Co. Dept. of Health

Harold D. Berger, Director
Region I - New York State
Department of Environmental Conservation
SUNY - Building 40
Stony Brook, New York 11794

Re: Alsy Mfg. Co., Hicksville, N.Y.
Violation of SPDES Permit NY0102539

Dear Mr. Berger:

On February 21, 22 and 27, 1984 NYSDEC and NCHD inspectors observed Alsy Manufacturing Company in Hicksville discharging industrial wastewater from points not covered in their SPDES Permit. Four unpermitted discharge points were noted as well as possible contamination of the ground by chemical wastes including paint.

As a result, this matter is being referred for appropriate legal action. Details of our inspections are provided in the attached "Data Supporting Request for Legal Action."

If you have any questions, please contact our Bureau of Land Resources Management at 535-2406.

Sincerely yours,

John J. Dowling, M.D.

John J. Dowling, M.D., M.P.H.
Commissioner

JJD:HS:sp

cc: R. Cacciatore, Commerce & Industry
Denis Dillon, NCDA (w/enc.)
G. Cusick, Hicksville W.D.
J. Ehrenfeld, Alsy Mfg. Co.

Appendix 1.1-11

NASSAU COUNTY DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11501

JOHN J. DOWLING, M.D., M.P.H.
Commissioner

FRANCIS V. PADAR, P.E., M.C.E.
Deputy Commissioner
Division of Environmental Health

CIS T. PURCELL
nty Executive

December 13, 1983

Mr. Jack Ehrenfeld, General Manager
Alsey Mfg. Co.
270 Duffy Avenue
Hicksville, N.Y. 11801

Received from:
Nassau Co. Dept. of Health

Dear Mr. Ehrenfeld:

Recently a sample was collected of your industrial wastewater discharge. Analysis of this sample for organic chemicals shows it to contain certain chemicals in concentrations exceeding allowable amounts.

Constituent	Allowable Limit	Test Result
Methylene Chloride	50 ug/l	63 ug/l
Total Organics*	100 ug/l	154 ug/l

*Includes chloroform 9 ug/l, 1,1,1 trichloroethane 30 ug/l, toluene 39 ug/l, xylene 13 ug/l.

A copy of the test result has been enclosed for your reference. Please investigate the source of this contamination and take measures to eliminate it. Contact this office by December 28, 1983 to report on your success.

Analysis of the sample for inorganic chemicals has not been completed. The results will be forwarded to you when they are received by this office.

I may be contacted at 535-2284 if you have any questions.

Very truly yours,

Howard Schaefer

Howard Schaefer
Bureau of Land Resources Management

HS:no
Enc.

LABORATORY REPORT
CHEMICAL EXAMINATION OF IN STRI...
AND HAZARDOUS WASTES
Division of Laboratories and Research
Nassau County Department of Health

1 ☒ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

L. No. 13926

Field No. VN 302

Source Information (Please Print)

Premises: Alsu Mfg
Address: Duffy Ave
Town: Hicksville
Collection Point: [illegible]

	Month	Day
Date Collected	11	17
Date Received		
Date Reported		
Collection Time	[illegible]	[illegible]
Collected By:		

Sampler's Comments:

Bureau:
1 ☒ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☒ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solv
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Check	Metals		Result	Check	Non-Metals		Result
1	Aluminum	mg/l	400.0	15	Chloride	mg/l	43.8
2	Arsenic	mg/l	0.06	16	Cyanide	mg/l	
3	Barium	mg/l	<0.5	17	Fluoride	mg/l	<0.20
4	Cadmium	mg/l	<0.001	18	MBAS	mg/l	0.06
5	Chromium, Total	mg/l	<0.01	19	pH		9.3
6	Copper	mg/l	3.05	20	Phenols	mg/l	
7	Iron, Total	mg/l	0.82	21	Solids, Suspended	mg/l	
8	Lead	mg/l	<0.01	22	Solids, Total Diss.	mg/l	1392
9	Manganese	mg/l	<0.05	23	Sulfate	mg/l	870
10	Mercury	mg/l		24	Ammonia nitrogen	mg/l	0.13
11	Nickel	mg/l	1.00	25	Kjeldahl nitrogen	mg/l	2.5
12	Selenium	mg/l	<0.005	26	Nitrite nitrogen	mg/l	0.017
13	Silver	mg/l	0.10	27	Nitrate nitrogen	mg/l	0.60
14	Zinc	mg/l	2.30	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		R
29	Chromium hex.	mg/l	
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

Examiner's Comments

BOTTLE NOT SUBMITTED FOR PHENOL.
BOTTLE NOT SUBMITTED FOR CYANIDE.

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT

HALOGENATED - GASES	MRC (ppb)	RESULTS (ppb)
CHLOROMETHANE		
DICHLORODIFLUOROMETHANE	NA	NA
BROMOMETHANE	NA	NA
VINYL CHLORIDE	NA	NA
CHLOROETHANE	10	NA
	NA	NA

VOLATILE HALOGENATED

METHYLENE CHLORIDE		
TRICHLOROFLUOROMETHANE	4	63
1,1-DICHLOROETHYLENE	1	1
1,1-DICHLOROETHANE	1	1
CIS-1,2-DICHLOROETHYLENE	4	4
	4	4
CHLOROFORM		
1,1,2-TRICHLOROTRIFLUOROETHANE	1	9
1,2-DICHLOROETHANE	1	1
1,1,1-TRICHLOROETHANE	4	4
CARBON TETRACHLORIDE	1	30
1,2-DICHLOROPROPANE	1	1
	11	11
BROMODICHLOROMETHANE		
TRICHLOROETHYLENE		1
TRANS-1,3-DICHLOROPROPENE	1	1
DIBROMOCHLOROMETHANE / 1,1,2-TRICHLOROETHANE	1	1
CIS-1,3-DICHLOROPROPENE		
BROMOFORM	NA	NA
TETRACHLOROETHYLENE	1	1
1,1,2,2-TETRACHLOROETHANE	1	1
	NA	NA

NON-HALOGENATED

BENZENE		
TOLUENE	4	4
CHLOROBENZENE	4	39
ETHYLBENZENE		4
XYLENE (o,m,p)	4	4
	4	13
DICHLOROBENZENE (o,m,p)	8	8

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

NASSAU COUNTY DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES & RESEARCH
ENVIRONMENTAL HEALTH LABORATORIES

RESULTS OF EXAMINATION

RECEIVED FROM NYSDEC
DIVISION OF ENVIRONMENTAL
ENFORCEMENT
WHITE PLAINS

REPORTING LAB: TRACE ORGANICS

LAB ACCESS NO.: 302096

SOURCE: HLSY MFG. - DUFFY AVE., HICKSVILLE

MATRIX: WATER

DATE SAMPLED: 11/17/83

MDL - MINIMUM REPORTABLE CONCENTRATION

NA - NOT ANALYZED

NR - NO RESULT DUE TO TECHNICAL REASONS-RESAMPLE SUGGESTED

Appendix 1.1-9

MEMORANDUM

NASSAU COUNTY DEPARTMENT OF HEALTH

240 Old Country Road - Mineola, New York 11501

To : Files

Date: May 8, 1981

From : Joseph Schechter

Received from:
Nassau Co. Dept. of Health

Subject : Alsy Mfg. Co., Hicksville

On 5/5/81 at 9:30 A.M., a meeting was held at the above site to discuss a monitoring program for chlorinated hydrocarbons. Mr. Ehrenfeld was given a copy of an analysis of a sample of wastewater collected on 3/24/81 showing effluent violations for chloroform and trichloroethylene (107 ug/l & 179 ug/l respectively).

Mr. Ehrenfeld believes that both are caused by inadvertent spillage next to the discharge trough where a tank is used to remove paint from rejected lamp parts. The solution contained within is a proprietary mixture from Patlin Chemical.

Analysis by NCDH on 3/24/81 eliminated 1,1,1-Trichloroethane as a problem. Discharge was within effluent limits. This is the only chlorinated compound currently in use for degreasing prior to plating. Since analysis has revealed that organic chemicals are not entering the cleaning tank rinse water, and since all parts are first cleaned in this tank, contamination is either being caused by spillage, a by-product of cyanide destruction by alkaline chlorination; or contained within proprietary chemicals.

Mr. Ehrenfeld has already taken one sample in April for organic analysis. It was agreed another sample will be taken in May. If 2 monthly samples are negative for organics, sampling may be discontinued, pending verification by NCDH sampling.

A review of the March 30, 1981 analysis by Alsy revealed discharge in violation of permit conditions. This was explained as the result of the caustic feed pump seal failing. It has been repaired. A spare pump is available on site.

JS/ceg

Joseph Schechter

Date: February 13,

NEW YORK TESTING LABORATORIES, INC.

P.O. BOX 484, 81 URBAN AVENUE, WESTBURY, L.I., N.Y. 11590 • (516) 334-7770 • (212) 297-1449

REPORT OF TESTS

Client — 79-56394 (S) - Alsy Manufacturing Inc.

Material — Four (4) Water Samples

Client's Order No. — Verbal

Identification — Sample Received Month of January - 1981

Submitted for — Chemical Analysis

We find as follows:

	1/6/81 12:00	1/13/81 9:25 Plating	1/20/81 10:25 Plating	1/27/81 9:10 Plating	
pH at 20 deg. C.	9.85	7.69	6.24	7.99	7
Results in mg/l					
Copper	< 0.011	0.484	1.108	7.387	2
Nickel	0.087	0.870	2.391	6.891	3
Zinc	0.031	0.152	0.334	1.552	
Total Nitrogen	5.20	17.43	14.19	52.15	
Cyanide	0.12	0.25	0.21	0.22	

< None detected, less than

To:

Alsy Manufacturing, Inc.
270 Duffy Avenue
Hicksville, New York 11802

Att: Mr. Jack Ehrenfeld

mg

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

NEW YORK TESTING LABORATORIES, INC.

G. J. Horvitz, Chief Officer

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by client. The liability of the New York Testing Laboratories, Inc. with respect to the services charged for herein

Date: December 17, 1980

NEW YORK TESTING LABORATORIES, INC.

P.O. BOX 484, 81 URBAN AVENUE, WESTBURY, L.I., N.Y. 11590 • (516) 334-7770 • (212) 297-1449

REPORT OF TESTS

Client — 79-56394 (Q) - Alsy Manufacturing Inc.

Material — Three (3) Water Samples

Client's Order No. — Verbal

Identification — Sample Received 12/5 & 12/9/80)

Submitted for — Chemical Analysis

Dec 1980

We find as follows:

	11/25/80 9:45 Plating	12/5/80 9:50 Plating	12/9/80 9:50 Plating	av
pH at 20 deg. C.	12.75	8.92	9.42	9.17
Results in mg/l				
Copper	0.122	0.244	0.322	.283
Nickel	0.455	0.682	0.591	.63
Zinc	0.140	0.345	0.162	.254
Total Nitrogen	12.47	13.15	35.12	24.14
Cyanide	1.20	< 0.02	0.25	.135

< None detected, less than

To:

Alsy Manufacturing, Inc.
270 Duffy Avenue
Hicksville, New York 11802

Att: Mr. Jack Ehrenfeld

eas

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

NEW YORK TESTING LABORATORIES, INC.

G. S. Horvitz, Chief Officer

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
Information contained herein is not to be used for reproduction except by special permission.
Samples retained for thirty days maximum after date of report unless specifically requested otherwise by New York Testing Laboratories, Inc. with respect to the services charged for herein.

Date: November 29, 1980

Appendix 1.1-8

NEW YORK TESTING LABORATORIES, INC.

P.O. BOX 484, 81 URBAN AVENUE, WESTBURY, L.I., N.Y. 11590 • (516) 334-7770 • (212) 297-1449

REPORT OF TESTS

Client — 79-56394 (P) - Alsy Manufacturing Inc.

Received from: Nassau Co. Dept. of Health

Material — Three (3) Water Samples

Client's Order No. — Verbal

Identification — Sample Received (Month of November, 1980)

Submitted for — Chemical Analysis

We find as follows:

	11/4/80 9:20 Plating	11/11/80 10:00 Plating	11/18/80 9:10 Plating
pH at 20 deg. C.	9.38	7.10	6.40
Results in mg/l			
Copper	4.159	0.611	38.85
Nickel	0.263	0.386	6.596
Zinc	0.689	0.311	1.208
Total Nitrogen	5.01	4.39	83.49
Cyanide	< 0.02	0.03	12.50

< None detected, less than

To:

Alsy Manufacturing, Inc.
270 Duffy Avenue
Hicksville, New York 11802

Att: Mr. Jack Ehrenfeld

eas

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

NEW YORK TESTING LABORATORIES, INC.

G. J. Horvitz, Chief Officer

Report on sample by client applies only to sample. Report on samples by us applies only to lot sampled.
...ion contained herein is not to be used for reproduction except by special permission.
... unless specifically requested otherwise by

LABORATORY REPORT
CHEMICAL EXAMINATION OF INDUSTRIAL AND HAZARDOUS WASTES
Division of Laboratories and Research
Nassau County Department of Health

1 ☑ Routine
2 ☐ Resample
3 ☐ Special
4 ☐ Complaint
5 ☐ Other

Lab. No. 13920

Field No. VN 382

Source Information (Please Print)

Premises: Alsy Mfg
Address: Duffy Ave
Town: Hicksville
Collection Point: Collection trench

Sampler's Comments:

	Month	Day
Date Collected	11	-
Date Received		
Date Reported		

Collection Time: Comp : 9:15
Collected By: V. Nigro

Bureau:
1 ☑ Land Resources Management
9 ☐ Other (specify)

Sample Type:
A ☑ Water
B ☐ Soil
C ☐ Sludge
D ☐ Waste Solvent
E ☐ Oil
F ☐ Other

CHEMICAL EXAMINATION

Check	Metals		Result	Check	Non-Metals		Result
1	Aluminum	mg/l	4.02	15	Chloride	mg/l	42.8
2	Arsenic	mg/l	0.06	16	Cyanide	mg/l	
3	Barium	mg/l	<0.5	17	Fluoride	mg/l	<0.20
4	Cadmium	mg/l	<0.001	18	MBAS	mg/l	0.06
5	Chromium, Total	mg/l	<0.01	19	pH		9.3
6	Copper	mg/l	3.05	20	Phenols	mg/l	
7	Iron, Total	mg/l	2.82	21	Solids, Suspended	mg/l	
8	Lead	mg/l	<0.01	22	Solids, Total Diss.	mg/l	1392
9	Manganese	mg/l	<0.05	23	Sulfate	mg/l	870
10	Mercury	mg/l		24	Ammonia nitrogen	mg/l	0.83
11	Nickel	mg/l	1.00	25	Kjeldahl nitrogen	mg/l	3.3
12	Selenium	mg/l	<0.005	26	Nitrite nitrogen	mg/l	0.017
13	Silver	mg/l	0.10	27	Nitrate nitrogen	mg/l	2.66
14	Zinc	mg/l	0.90	28	Total Phos.	mg/l	

SPECIAL ANALYSIS

Check	Constituent		Result
29	Chromium hex.	mg/l	
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			

Examiner's Comments

BOTTLE NOT SUBMITTED FOR PHENOL.
BOTTLE NOT SUBMITTED FOR CYANIDE.

MEMORANDUM

NASSAU COUNTY DEPARTMENT OF HEALTH

240 Old Country Road - Mineola, New York 11501

To : F. V. Padar

Date: March 20, 1984

From : S. Juczak

Subject : Warning letter of 3/19/83 to Alsy, Hicksville to correct violations discovered by DEC

The question you had regarding the above referenced facility was "Explain why the DEC people see these violations and we don't and why we write the letter and they don't."

We did not see these violations during our past inspections.

The two DEC personnel involved,(low echelon people) were on a routine sampling mission. They come back to our office with their observations and questions and were educated by us as to what constituted violations in what they had seen at Alsy.

We asked them whether they would follow up enforcement so that it was clear who would take the lead with the facility. They discussed it by phone with Andy Yerman at DEC who reportedly told them to ask the County to follow up. It is our experience that DEC seldom follows up anyway so we took the lead.

SJ:LS:ceg

Appendix 1.1-5

MEMORANDUM

NASSAU COUNTY DEPARTMENT OF HEALTH

240 Old Country Road - Mineola, New York 11501

To : G. E. Donohue

Date: April 5, 1984

From : Stan Juczak

Received from:
Nassau Co. Dept. of Health

Subject : Questions on Alsy legal referral

1. Question: If DEC found it why don't they refer it for legal action?

   Answer: Please check memo of 3/20/84 from me to FVP, copy attached, which answers question.

2. Question: Why is someone other than our lab analyzing samples and when will we get results?

   Answer: DEC took the samples on their sampling mission and to their labs.

3. Question: If both Cycle II and Alsy are discharging, why not refer both?

   Answer: In effect, we are referring both of them since the same people and plant are involved. They are listed under "Facility Name".

4. Question: If Alsy has responded to our requests in past to correct problems:-

   (a) What have they done this time?
   (b) If good, why refer?

   Answer: (a) They have unpermitted discharge points.
   (b) Their recent illegal discharges were so blatant we want them fined.

5. Question: Where are sample results referred to in referral paragraph #4?

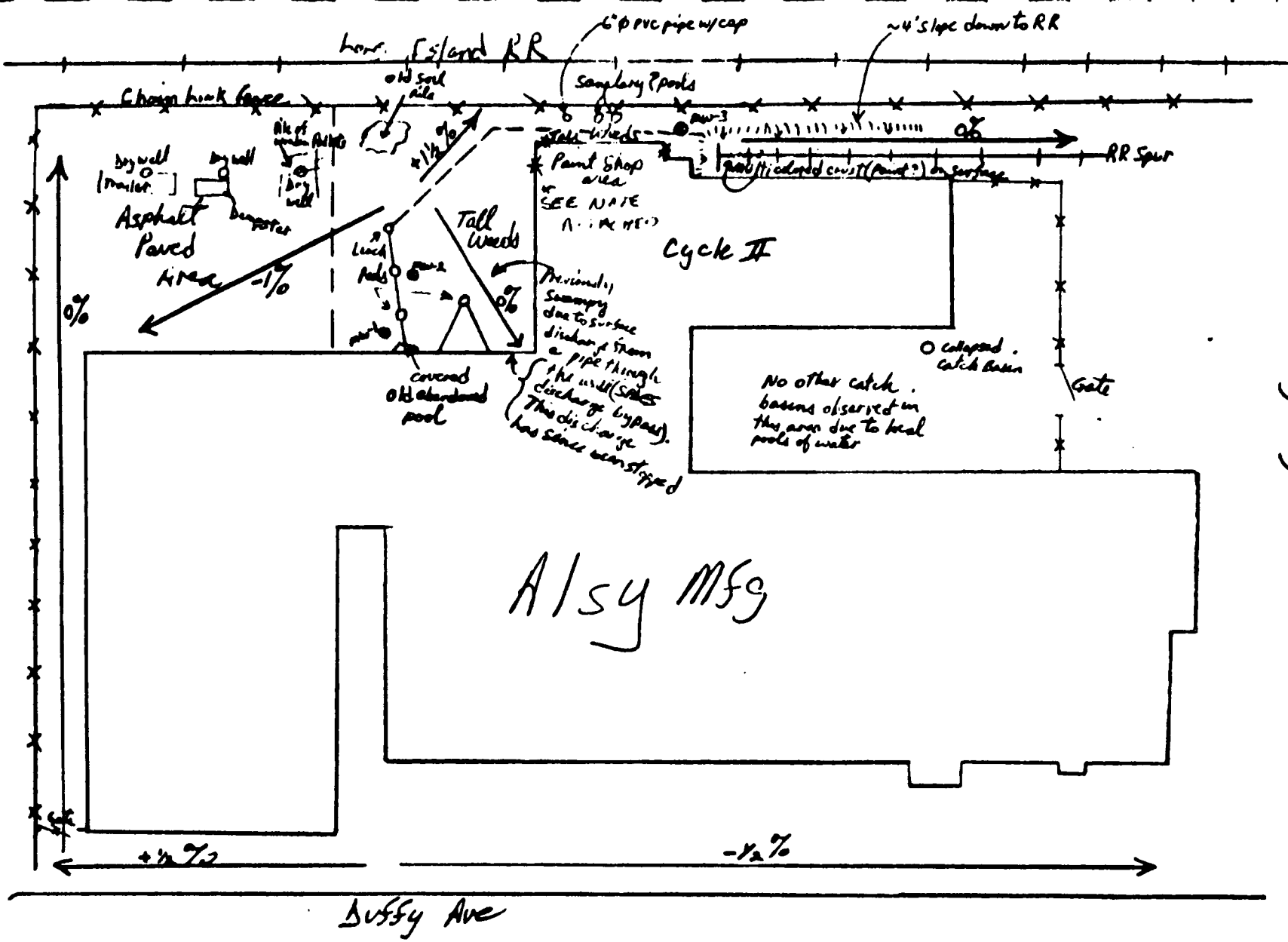
   Answer: This problem is not part of this referral and therefore sample results were not attached. However, a copy is attached here for your information.

Stan

SJ:LS:ceg
Attachment

10. SITE SKETCH

Site Name: Alsy Mfg Date: 1-23-86



Note: Base map reduced from Soil Mechanics Drilling Corp 5 Feb. 1985 Dwg # 84-536A

was run from the industrial cesspools to the railroad siding area. He also suggested that the dry wells which currently receive surface runoff may have received industrial wastes, although this was never observed by the NCDOH and cannot be substantiated. The old soil pile was created in 1984 when the surface of the swampy area which had received the SPDES discharge bypass flow was skimmed and the soil piled up. Various stains on the ground surface and colors on the wall near the paint shop area seen by the NCDOH inspectors were caused by discharge from the stripping sinks of Alsy Cycle II. Alsy Cycle II is a separate corporation, but part of the operations at 280 Duffy Avenue. Two stripping sinks discharged at the corner of the building via a 6-in. pipe to the ground. In addition, waste paints stored in the area have been spilled to the ground. Soil sampling done in this area has shown concentrations of lead. A 6-in. PVC pipe coming out of the ground behind the paint shop area is said to be a clean-out pipe for the sanitary pools also in the same location. In May 1985, Alsy Manufacturing hooked up to the public sewer system, and no longer discharges to the various pools on the property.

Mr. Casaburri indicated that the former owner of the property, Balatem, Inc. operated onsite as Metalab, a maker of laboratory furniture.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

Please see attached note -

Signature: Howard Schaefer Date: 4/23/86

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Alsy Manufacturing

I.D. Number: 130027

Person Contacted: Mr. John M. Casaburri

Date: 23 January 1986

Title: Plant Manager

Affiliation: Alsy Manufacturing, Inc.

Phone No.: (516) 822-5252

Address: 280 Duffy Avenue
Hicksville, New York 11801

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

According to Mr. John M. Casaburri, Plant Manager, the investigation of Alsy Manufacturing, Inc. began when the New York State Department of Environmental Conservation (NYSDEC) came to collect a routine sample for the SPDES permit. NYSDEC personnel observed a discharge from a pipe from inside the building to the ground surface. In addition, other pipes were seen coming out of the wall at various spots around the building. NYSDEC notified Nassau County Department of Health (NCDOH) and NCDOH began working with Alsy Manufacturing to evaluate the situation. A monitoring program was worked out with Alsy's consultant, Soil Mechanics, Inc., and certain of the proposed ground-water monitoring wells were installed during the spring of 1985 (wells were of 4-in. PVC construction and installed to first water). However, the NYSDEC disagreed with the monitoring program, and plans for the program stopped. The wells that had been installed were not sampled. The NYSDEC sampled the pools, sediment, and a suspicious dirt pile in the back of the property, and ordered a clean up of the site. Clean up took place, but with no supervision. No post-clean up samples have been taken. H2M, Inc., a consultant for Alsy, sampled at the site just prior to the NYSDEC sampling.

Discharge to the cesspools took place from 1977 to 1985. At times when the cesspools overflowed, wastes were bypassed the SPDES discharge and dumped directly to the ground in the swampy area. It was established during investigations of the site that a cesspool was beneath the swampy pool. An abandoned cesspool is located partially under the building in line with the industrial cesspools. Mr. Casaburri has indicated that wastes were treated with cyanide destruction, metal precipitation, and chlorination before being discharged to the cesspools. Mr. Schaefer, NCDOH, indicated chlorinated solvents have, at times, been identified in the SPDES discharge, but it has never been determined where they were coming from. Mr. Schaefer hypothesized that the chlorinated solvents may have been coming from lacquers used on lamps or perhaps from degreasing machines, however there is no direct connection to the plating line and parts should be dry by the time they reach plating. Mr. Casaburri indicated there is a 275-gallon trichloroethane tank inside the building. He insisted that there is no way solvents could reach the treatment system and solvents are not part of the Alsy discharge. Chlorinated solvents are not treated for by the waste treatment system. Mr. Schaefer indicated that at some point after the problems were discovered at the site an overflow pipe

D-1GC

Appendix 1.1-4

RECEIVED MAY 5 1986

FRANCIS T PURCELL
COUNTY EXECUTIVE

NASSAU COUNTY
DEPARTMENT OF HEALTH
240 OLD COUNTRY ROAD
MINEOLA, NEW YORK 11501

JOHN J DOWLING M D M P H
COMMISSIONER

FRANCIS V PADAR P E M C E
DEPUTY COMMISSIONER
DIVISION OF ENVIRONMENTAL HEALTH

May 6, 1986

Rebecca Ligotino
E A Science and Technology
R.D. 2, Box 91
Goshen Turnpike
Middletown, New York 10940

Re: Alsy Mfg. Co.

Dear Ms. Ligotino:

After reviewing your interview summary and site sketch I have the following comments:

1. In the first paragraph you indicate that cleanup took place. As far as we are aware the only cleanup was of the three industrial leaching pools. No cleanup or investigation has been conducted of any of the surface areas which received unpermitted discharges or bypasses.

2. In the second paragraph reference is made to the practice of pumping industrial wastes to stormwater drywells. While this was never observed by the Health Department, I believe it was observed by Carl Vernick of Soil Mechanics. This may be a way to confirm this practice.

3. Also in the second paragraph, reference is made to the various colors found in the soil near the paint shop. While these colors may have been caused by paint stripping, it is also possible that metals used in the plating operation may be responsible. We have heard that the plating tanks were drained at times and may have allowed concentrated material to enter the discharge stream.

4. On the drawing, I indicated three areas by asterisks. These were the location of sinks which discharged through pipes onto the ground outside the building. DEC samples of the ground in these areas indicated the presence of lead.

Other than the above comments, the summary is an accurate record of the meeting. Please contact me if you have any questions.

Very truly yours,

Howard Schaefer

Howard Schaefer

SUMMARY AND RECOMMENDATIONS

Violations and/or Problems	Recommended Action
① Monthly monitoring reports not provided - scavengers not provided	① Data supplied by company representative at time of inspection
② Trichloroethylene levels in discharge above state guidelines.	② General manager to monitor degreasing operation to prevent spillage. - Company to monitor levels of contaminant to prove that contamination does not continue.

Comments

Levels of Trichloroethylene at 420 ug/l above state limit of 50 ug/l. Company to monitor level of pollutant. If contamination continues - permit will be modified to include Trichloroethylene in effluent discharge & legal action will be taken. Company was so notified.

Violations of effluent standards have decreased due to shakedown of treatment system. System in good working order.

Inspector Signature: Joseph Schechter

Name: JOSEPH SCHECHTER

Title: PUBLIC HEALTH SANITARIAN

Date: 8/8/78

(e) Is there any discharge of unreported contaminated storm runoff? NO

(f) Is the treatment system maintained in good working order and operated efficiently? YES

(g) What alternate power supply provisions exist for waste treatment facilities? NONE
If none, what happens to the wastewater when there is a power failure? operation CEASES -

(h) Have all bypasses of waste treatment facilities been eliminated: yes
If not, why? If not, is flow monitoring installed in bypass?

(i) Are there any obvious air emission, noise, radiation, pesticides, or solid wastes problems at the plant? NO
What are they?
If yes, send copy of this report to the appropriate personnel.

(j) Does plant require a Spill Prevention Control Countermeasure Plan? NO
NOTE: SPCC plan is required if the permittee stores more than;
1. 1,320 gallons of oil above ground;
2. 660 gallons of oil in a single container above ground;
3. 42,000 gallons of oil underground.

If so, is the plant approved by a licensed P.E.?

(h) In your judgement, do sampling procedures, frequency and type of sample typify plant's daily discharge (i.e. are maximum production periods, batch discharges, etc. reflected in monitoring data)? yes

(i) Does plant perform its own analysis? NO
If not, what laboratory is analysis contracted to?
If yes, what is the appearance of plant's laborabory?
New York Testing Laboratories, Inc.
81 Urban Ave. Westbury, N.Y. 11590 516-334-7770

(j) Do all sampling and analytical methods conform to the guidelines published pursuant to Section 304(g) of 1972 FWPCAA?
yes

(k) Has plant requested modification to permit sampling schedules?
NO

(l) Are modifications appropriated?
NO

5) MISCELLANEOUS

(a) Did the permit application truly represent conditions at the plant site? yes

(b) Are any of the following toxic pollutants or compounds containing them, being discharged that would require modification of the permit: No ✓ Yes____ (Check those Applicable)

Aldrin	____	DDE	____
Dieldren	____	DDT	____
Benzidine	____	Endrin	____
Cadmium	____	Mercury	____
Cyanide	____	Polycalorinated biphenyls	____
DDD (TDE)	____	Toxaphane	____

If yes, what modifications are necessary?

(c) Is sludge being generated at plant? YES
If yes, is plant reporting on its disposal? NO
If sludge disposal is at plant site, is there any visual evidence or hazards associated with entry of pollutants into surface or ground waters? NO
If not at plant, where is the disposal site, and is it acceptable to regulatory agencies? YES
#41-009 CHEMICAL WASTE DISPOSAL CORP. 42-14 19th AVE ASTORIA, N.Y. } SLUDGE REMOVAL // PASLEY SOLVENTS + CHEM CO. 585 Commercial Ave. Garden City, N.Y.

(d) What is the appearance of plant grounds?

NEW YORK S .TE DEPARTMENT OF ENVIRONMENTAL .ONSERVATION

92-15-1 (7/75)

Inspection & S:
Permit No.

(2.1) EFFLUENT DISCHARGE NO. 001
(a) Wastewater Flow: 4800 gallons per day
(b) Measuring Device used for Flow: TIMED FLOW OF FLOOR SUMP
(c) Wastewater Characteristics: PROCESS WASTEWATER
(d) Type of treatment units and treatment sequence sketch (attach copy if on file and verify with company): ON FILE - ENGINEERS REPORT

(e) Appearance of Effluent(s):
(1) visible oil —
(2) foam —
(3) floating solids —
(4) Suspended Solids
(5) color CLEA
(6) Temperature
(7) Odor
(8) other

(f) Appearance of Receiving waters: Groundwater
(1) visible oil
(2) foam
(3) floating solids
(4) turbidity
(5) sludge deposits
(6) color
(7) temperature
(8) odor
(9) other

(2.2) EFFLUENT DISCHARGE NO. 002 Picture Taken:
(a) Wastewater Flow:
(b) Measuring Device used for Flow:
(c) Wastewater Characteristics: SANITARY
(d) Type of treatment units and treatment sequence sketch (attach copy if on file and verify with company): SEPTIC TANK & CESSPOOLS

(e) Appearance of Effluent(s):
(1) visible oil
(2) foam
(3) floating solids
(4) suspended solids
(5) color
(6) temperature
(7) odor
(8) other

(f) Appearance of Receiving waters:
(1) visible oil
(2) foam
(3) floating solids
(4) turbidity
(5) sludge deposits
(6) color
(7) temperature
(8) odor
(9) other

(2.3) EFFLUENT DISCHARGE NO.
(a) Wastewater Flow:
(b) Measuring Device used for Flow:
(c) Wastewater Characteristics:
(d) Type of treatment units and treatment sequence sketch (attach copy if on file and verify with company):

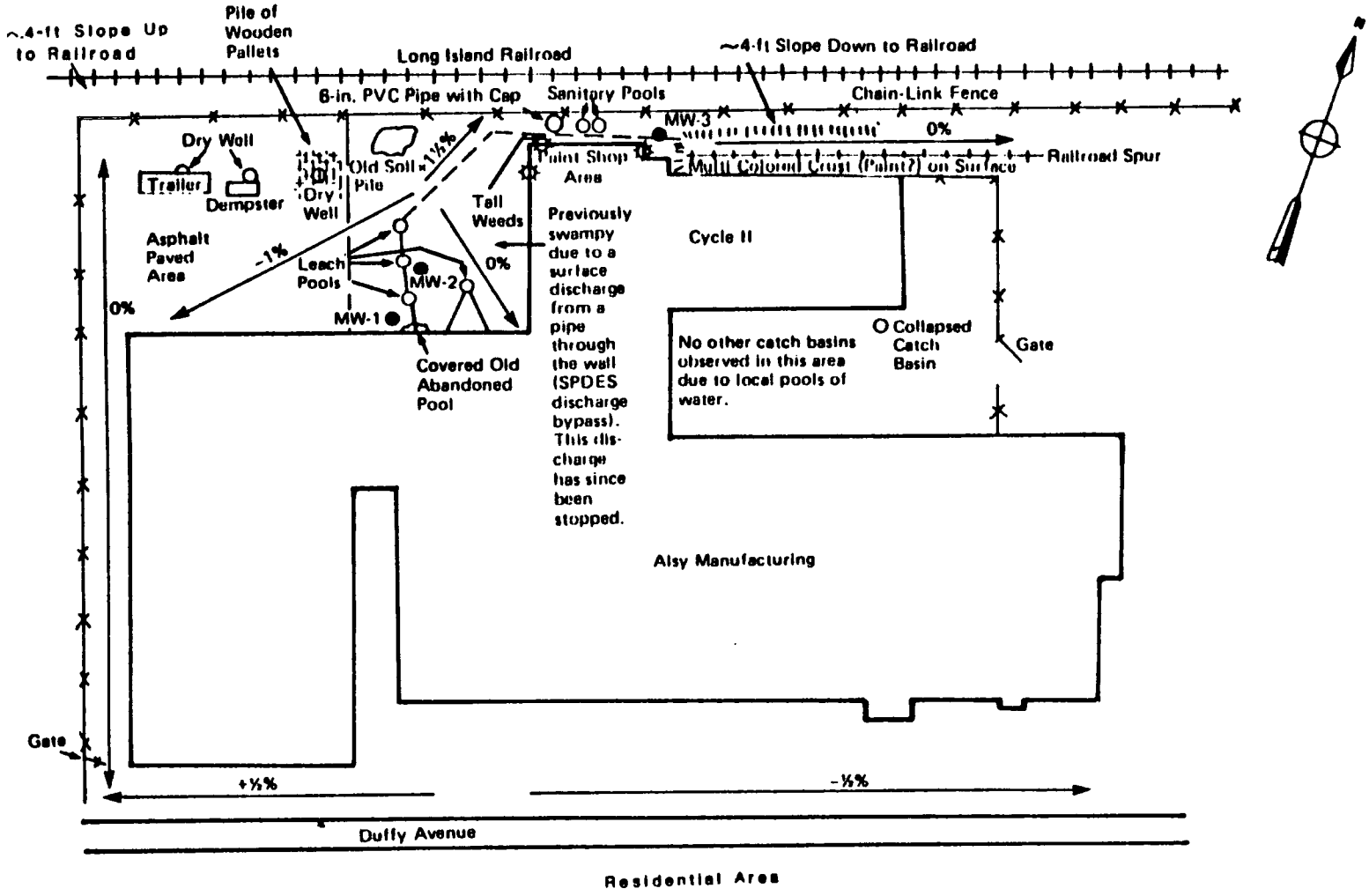
(e) Appearance of Effluent(s):
(1) visible oil
(2) foam
(3) floating solids
(4) suspended solids
(5) color
(6) temperature
(7) odor
(8) other

(f) Appearance of Receiving waters:
(1) visible oil
(2) foam
(3) floating solids
(4) turbidity
(6) color
(7) temperature
(8) odor

August 16, 1978

EFFLUENT LIMITATION VIOLATIONS
(BASED UPON SELF-MONITORING DATA)
DISCHARGE NO. 001

arameter	Permit Limitation (mg/l)	Reported Discharge (mg/l)	Date/Period of Violation
itrogen (Total)	10.0	50.2	8/1/77-8/31/77
inc	0.6	2.66	"
Copper	0.4	7.2	"
ickel	2.0	4.973	"
H	6.0 - 8.5	9.56	9/1/77-9/30/77
inc	0.6	4.82	"
yanide	0.4	0.54	"
opper	0.4	7.02	"
inc	0.6	0.968	10/1/77-10/31/77
Copper	0.4	3.612	"
H	6.0 - 8.5	10.18	"
H	6.0 - 8.5	11.44	11/1/77-11/30/77
Zinc	0.6	1.532	"
opper	0.4	2.242	"
inc	0.6	1.587, 5.092	12/1/77-12/31/77
Copper	0.4	3.523	"
opper	0.4	1.158	3/13/78
inc	0.6	0.827	"
yanide	0.4	0.77	"
H	6.0 - 8.5	4.02	6/13/78
itrogen (Total)	10.0	10.70	"
opper	0.4	1.111	7/18/78
Nitrogen (Total)	10.0	11.90	"



No Scale

NOTE: Base map reduced from Soil Mechanics Drilling Corp., 5 February 1985. Drawing No. 84-536A.

Denotes locations of sinks that discharged through pipes onto the ground outside the building.

Figure 1-2. Site sketch. Alsy Manufacturing, 23 January 1986.

Site Coordinates:

Latitude: 40° 45' 47"
Longitude 73° 31' 52"

ALSY MANUFACTURING

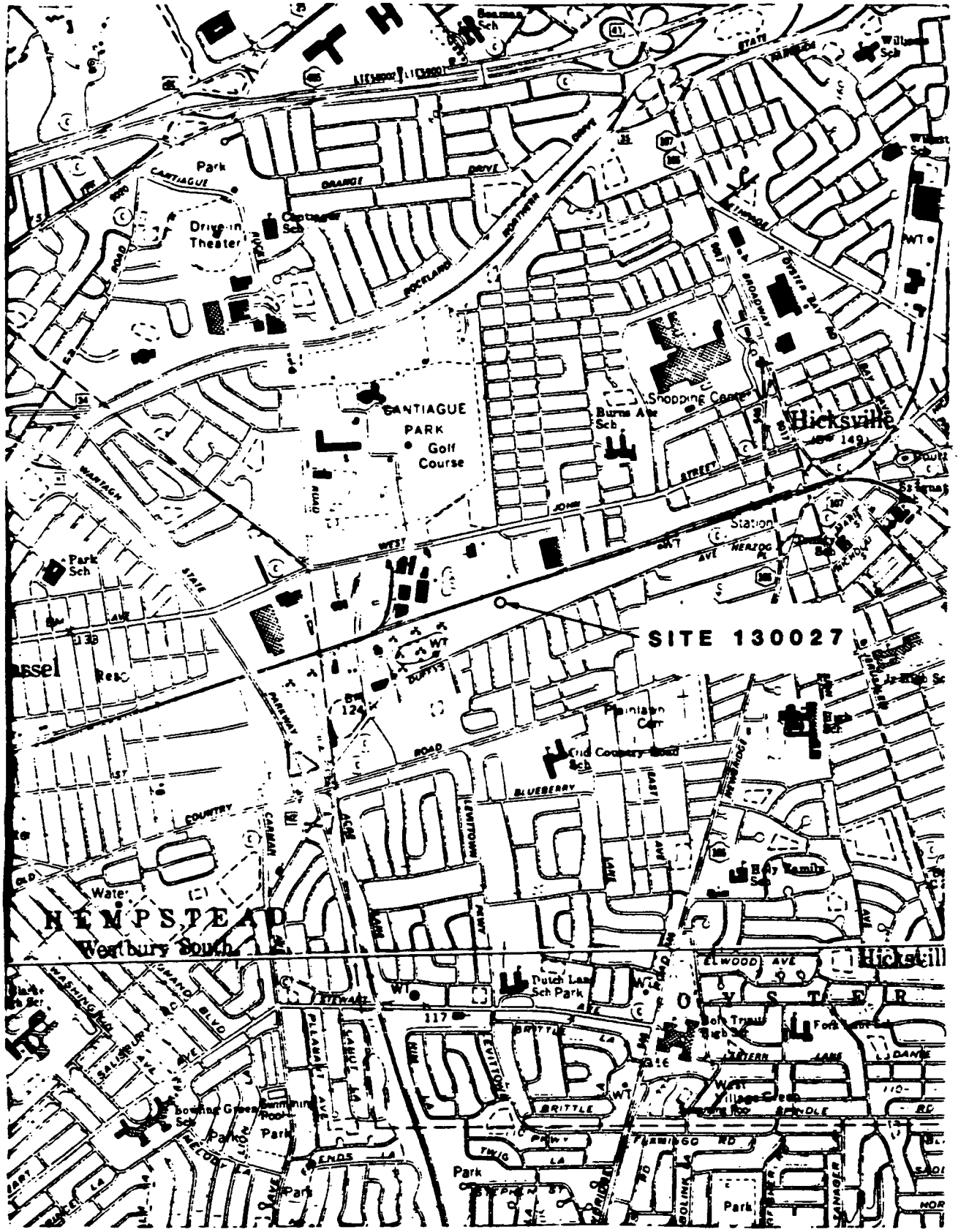


Figure 1-1. **HICKSVILLE & FREEPORT QUADS.**

Scale 1:24,000

Glasy Mfg., Hicksville LI

(Signature) Richard G Torney, Tom Gerrist

Date	Time	Comp.	Grab	Station Location	No. of Containers	Clear Glass Jar	40 Ml Vial	Colorimeter	Plastic			Remarks
5/8/85	1:30 pm	X		R-185-012-01	1	X						Soil - Sludge, Water
"	"		X	R-185-012-01B	2		X					
"	"		X	R 185-012-02	3	X	X					
"	"		X	R-185-012-03	2	X		X				
"	"	X		R-185-012-04	1	X						
"	"	X		R-185-012-05	2	X		X				
"	"	X		R-185-012-06	2	X		X				
"			X	R-185-012-07	2	X		X				
"		X		E-185-222-01	3		X	[illegible]	X			
"			X	E-185-222-02	3		X		X			
"		X		E-185-222-03	3		X		X			
"		X		E-185-222-04	3		X		X			
"			X	E-185-222-05	3		X		X			
"			X	E-185-222-06	3		X		X			

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Relinquished by: (Signature)	Date Time	Received by: (Signature)
[illegible] Gerrist	05/08/85 7:00 pm	M. Lukis Federal Express			
[illegible]hed by: (Signature) [illegible]kis.	Date Time 5/9/85 9:00	Received by: (Signature) Christy Rutkell	Relinquished by: (Signature)	Date Time	Received by: (Signature)
[illegible]hed by: (Signature)	Date Time	Received for Laboratory by: (Signature)		Remarks	

Appendix 1.4-1

New York State Dept. of
Environmental Conservation
50 Wolf Rd.
Albany NY. 12233

Form :

Received from:
Nassau Co. Dept. of Health

Sample No.
E-185-222-01

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16110

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low _____ Medium X

Matrix: Water X Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	84,000	13.	Magnesium	79,400
2.	Antimony	60 U	14.	Manganese	3100
3.	Arsenic	43	15.	Mercury	1.1
4.	Barium	723	16.	Nickel	29,300
5.	Beryllium	5 U	17.	Potassium	23,400
6.	Cadmium	28	18.	Selenium	5 U
7.	Calcium	391,000	19.	Silver	10 U
8.	Chromium	434	20.	Sodium	13,200
9.	Cobalt	53	21.	Thallium	10 U
10.	Copper	19,800	22.	Tin	496
11.	Iron	126,000	23.	Vanadium	177
12.	Lead	2560	24.	Zinc	11,100
	Cyanide	NA		Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Laurel Stedman

CLIENT	New York State DEC
CLIENT ID	E-185-222-01
ERCO ID	16110
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/14/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	ND	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	ND	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by: [illegible]
Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-01
ERCO ID	16110
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/13/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	ND
Ethyl Benzene	ND
P-Xylene	ND
M-Xylene	ND
O-Xylene	ND
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 5.

Reported by:
Checked by:

New York Dept. of
Environmental Conservation Form I
50 Wolf Rd.
Albany NY. 12233

Received from:
Nassau Co. Dept. of Health

Sample No.
E-01-Composite

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16117

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low _____ Medium X

Matrix: Water X Soil _____ Sludge _____ Other _____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum	68,900	13.	Magnesium	58,600
2.	Antimony	60 U	14.	Manganese	1450
3.	Arsenic	31	15.	Mercury	1.9
4.	Barium	597	16.	Nickel	20,600
5.	Beryllium	5 U	17.	Potassium	25,600
6.	Cadmium	20	18.	Selenium	5 U
7.	Calcium	254,000	19.	Silver	10 U
8.	Chromium	340	20.	Sodium	13,500
9.	Cobalt	50 U	21.	Thallium	10 U
10.	Copper	14,200	22.	Tin	356
11.	Iron	108,000	23.	Vanadium	153
12.	Lead	1720	24.	Zinc	7870

Cyanide NA

Percent Solids (%)

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Laurel Standard

New york State Dept. of
Environmental Conservation
50 wolf Rd.
Albany NY. 12233

Form I

Received from:
Nassau Co. Dept. of Health

Sample No. E-185-222-02

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16111

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	1240	13.	Magnesium	1500
2.	Antimony	60 u	14.	Manganese	34
3.	Arsenic	28	15.	Mercury	0.2 u
4.	Barium	100 u	16.	Nickel	2400
5.	Beryllium	5 u	17.	Potassium	31,600
6.	Cadmium	5 u	18.	Selenium	8.0
7.	Calcium	15,800	19.	Silver	10 u
8.	Chromium	13	20.	Sodium	148,000
9.	Cobalt	50 u	21.	Thallium	10 u
10.	Copper	3430	22.	Tin	40 u
11.	Iron	2330	23.	Vanadium	50 u
12.	Lead	33	24.	Zinc	549
	Cyanide	NA		Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Laurel Goddard

CLIENT	New York State DEC
CLIENT ID	E-185-222-02
ERCO ID	16111
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/14/85
RESULTS IN	ug/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	ND	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	ND	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by: [illegible]

Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-02
ERCO ID	16111
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/13/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	ND
Ethyl Benzene	ND
P-Xylene	ND
M-Xylene	ND
O-Xylene	ND
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 5.

Reported by:
Checked by:

New York State Dept. of
Environmental Conservation
50 Wolf Rd.
Albany NY. 12233

Form I

Received from:
Nassau Co. Dept. of Health

Sample No.
E-165-222-03

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16112

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	1160	13.	Magnesium	4080
2.	Antimony	60 U	14.	Manganese	46
3.	Arsenic	10 U	15.	Mercury	0.31
4.	Barium	100 U	16.	Nickel	40 U
5.	Beryllium	5 U	17.	Potassium	23,300
6.	Cadmium	5.8	18.	Selenium	5 U
7.	Calcium	35,200	19.	Silver	10 U
8.	Chromium	10 U	20.	Sodium	48,100
9.	Cobalt	50 U	21.	Thallium	10 U
10.	Copper	204	22.	Tin	84
11.	Iron	1630	23.	Vanadium	50 U
12.	Lead	200	24.	Zinc	457
	Cyanide	NA		Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Laurel Stoddard

CLIENT	New York State DEC
CLIENT ID	E-185-222-03
ERCO ID	16112
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/14/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	ND	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	ND	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by: [illegible]

Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-03
ERCO ID	16112
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/13/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	2,000
Ethyl Benzene	46
P-Xylene	41
M-Xylene	200
O-Xylene	70
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 5.

Reported by:
Checked by:

New York State Dept. of
Environmental Conservation
50 Wolf Rd.
Albany NY. 12233

Form I

Received from:
Nassau Co. Dept. of Health

Sample No.
E-165-223-04

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16113

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	2440	13.	Magnesium	2680
2.	Antimony	60 U	14.	Manganese	79
3.	Arsenic	10 U	15.	Mercury	0.2 U
4.	Barium	100 U	16.	Nickel	40 U
5.	Beryllium	5 U	17.	Potassium	2260
6.	Cadmium	5 U	18.	Selenium	5 U
7.	Calcium	22,400	19.	Silver	10 U
8.	Chromium	10 U	20.	Sodium	14,200
9.	Cobalt	50 U	21.	Thallium	10 U
10.	Copper	116	22.	Tin	64
11.	Iron	3910	23.	Vanadium	50 U
12.	Lead	33	24.	Zinc	100
Cyanide		1.4	Percent Solids (%)		

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Lowell Stoddard

CLIENT	New York State DEC
CLIENT ID	E-185-222-04
ERCO ID	16113
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/18/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane ----------	210	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene ----------	180	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by: [illegible]

Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-04
ERCO ID	16113
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/13/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	ND
Ethyl Benzene	ND
P-Xylene	ND
M-Xylene	ND
O-Xylene	ND
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 5.

Reported by:
Checked by:

New Yok Atate Dept. of
Environmental Conservation
50 Wolf Rd.
Albany NY. I2233

Form 1

Received from:
Nassau Co. Dept. of Health

Sample No.
E-185-222-05

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16114

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low _____ Medium X

Matrix: Water X Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	332,000	13.	Magnesium	117,000
2.	Antimony	60 u	14.	Manganese	6420
3.	Arsenic	498	15.	Mercury	0.67
4.	Barium	2610	16.	Nickel	169,000
5.	Beryllium	61	17.	Potassium	15,000
6.	Cadmium	91	18.	Selenium	5 u
7.	Calcium	735,000	19.	Silver	10 u
8.	Chromium	292	20.	Sodium	90,900
9.	Cobalt	107	21.	Thallium	10 u
10.	Copper	464,000	22.	Tin	314
11.	Iron	238,000	23.	Vanadium	274
12.	Lead	4030	24.	Zinc	286,000
Cyanide		NA	Percent Solids (%)		

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager [signature]

CLIENT	New York State DEC
CLIENT ID	E-185-222-05
ERCO ID	16114
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/19/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	12,000	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	280	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	3,300	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	190	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	25	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by: [illegible]
Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-05
ERCO ID	16114
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/19/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	ND
Ethyl Benzene	2,000
P-Xylene	*
M-Xylene	12,000
O-Xylene	2,400
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 100.
*Trace concentrations detected below the minimum reporting limit.

Reported by: [illegible]
Checked by: [illegible]

New York State Dept. of
Environmental Conservation
50 Wolf Rd.
Albany NY. I2233

Form 1

Received from:
Nassau Co. Dept. of Health

Sample No. E-105-222-06

Date 6/6/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ERCO

LAB SAMPLE ID. NO. 16115

QC REPORT NO. 5680-2

Elements Identified and Measured

Concentration: Low X Medium ____

Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	503	13.	Magnesium	1550
2.	Antimony	60 U	14.	Manganese	24
3.	Arsenic	10 U	15.	Mercury	0.2 U
4.	Barium	100 U	16.	Nickel	40 U
5.	Beryllium	5 U	17.	Potassium	1930
6.	Cadmium	5 U	18.	Selenium	5 U
7.	Calcium	18,100	19.	Silver	10 U
8.	Chromium	10 U	20.	Sodium	13,400
9.	Cobalt	50 U	21.	Thallium	10 U
10.	Copper	191	22.	Tin	40 U
11.	Iron	778	23.	Vanadium	50 U
12.	Lead	12	24.	Zinc	34
	Cyanide	NA		Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager [illegible]

CLIENT	New York State DEC
CLIENT ID	E-185-222-06
ERCO ID	16115
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/18/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	320	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	180	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 5.

ND = Not detected above the minimum reporting limit.

Reported by:

Checked by:

CLIENT	New York State DEC
CLIENT ID	E-185-222-06
ERCO ID	16115
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/14/85
RESULTS IN	µg/l (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	ND
Ethyl Benzene	ND
P-Xylene	ND
M-Xylene	ND
O-Xylene	ND
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 5.

Reported by: [illegible]
Checked by: [illegible]

Sample Received: 5/9/85

ıalysis Completed: 6/4/85

All Results in: ug/ml (ppm)

Reported by: JPM

Checked by: LAS

ℓient: New York State DEC - Region 1

ERCO / A DIVISION OF ENSECO, INC.

INORGANIC ANALYSIS

EP TOXICITY

- Data Report -

RCO-ID	CLIENT ID	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	R-185-								
5118	012-01	<0.040	0.046	<2.0	<0.040	<0.40	<0.0002	<0.40	<0.020
5120	012-02	<0.040	<0.005	<2.0	<0.040	<0.40	<0.0002	<0.40	<0.020
5121	012-03	<0.040	0.046	<2.0	<0.040	<0.40	<0.0002	<0.40	<0.020
5122	012-04	<0.040	<0.005	<2.0	<0.040	<0.40	<0.0002	<0.40	<0.020
5123	012-05	<0.040	<0.005	<2.0	<0.040	<0.40	<0.0002	<0.40	<0.020
5124	012-06	<0.040	<0.005	<2.0	<0.040	<0.40	<0.0002	0.40	<0.020
5125	012-07	<0.040	<0.005	<2.0	0.066	<0.40	<0.0002	<0.40	<0.020

If customer has any questions regarding analysis, refer to sample in question by its RCO ID#.

Sample Received: 5/9/85

Analysis Completed: 6/10/85

All Results in: ug/g (ppm) dry wt.

Reported by: PC / AW

Checked by: RCW

Client: New York State DEC

ERCO / ENERGY RESOURCES CO. INC.

- Data Report -

ERCO ID	CLIENT ID	Total Phenolics
	R-185-	
16121	012-03	20.4
16123	012-05	0.75
16124	012-06	1.8
16125	012-07	0.51
16121 Dup.	012-03 Dup.	26.1
16124 Dup.	012-06	1.8
16124 Sp.	012-06 Sp.	102.7% recovery
Blank	NA	<0.010
QC Ampul	WP179 conc. 4	0.144 (true value 0.15; 96% recovery)

If customer has any questions regarding analyses, refer to sample in question by its ERCO ID#.

CLIENT	New York State DEC
CLIENT ID	R-185-012-01B
ERCO ID	16119
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/23/85
RESULTS IN	ng/g (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	18,000
Ethyl Benzene	*
P-Xylene and M-Xylene	16,000
O-Xylene	3,400
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 280.

*Trace concentrations detected below the minimum reporting limit.

Reported by: [illegible]

Checked by: [illegible]

CLIENT	New York State DEC
CLIENT ID	R-185-012-02
ERCO ID	16120
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/22/85
RESULTS IN	ng/g (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 601 METHOD

	Compound	Result	Minimum Reporting Limit
45V	Chloromethane	ND	5
46V	Bromomethane	ND	5
88V	Vinyl chloride	ND	2
16V	Chloroethane	ND	5
44V	Methylene chloride	ND	1
29V	1,1-dichloroethylene	ND	1
13V	1,1-dichloroethane	ND	1
30V	1,2-trans-dichloroethylene	ND	1
23V	Chloroform	ND	1
10V	1,2-dichloroethane	ND	1
11V	1,1,1-trichloroethane	ND	1
6V	Carbon tetrachloride	ND	1
48V	Bromodichloromethane	ND	1
32V	1,2-dichloropropane	ND	2
33V	Trans-1,3-dichloropropylene	ND	2
87V	Trichloroethylene	ND	1
51V	Dibromochloromethane	ND	1
33V	Cis-1,3-dichloropropylene	ND	2
14V	1,1,2-trichloroethane	ND	2
47V	Bromoform	ND	5
15V	1,1,2,2-tetrachloroethane	ND	2
85V	Tetrachloroethylene	ND	1
7V	Chlorobenzene	ND	5
19V	2-chloroethyl vinyl ether	ND	10

Multiply minimum reporting limit by dilution factor to obtain true minimum limit.

Dilution factor = 18.

ND = Not detected above the minimum reporting limit.

Reported by:

Checked by:

CLIENT	New York State DEC
CLIENT ID	R-185-012-02
ERCO ID	16120
SAMPLE RECEIVED	5/9/85
ANALYSIS COMPLETED	5/23/85
RESULTS IN	ng/g (ppb)

ERCO / A Division of ENSECO

VOLATILE COMPOUNDS

EPA 602 METHOD

Benzene	ND
Toluene	3,000
Ethyl Benzene	7,900
P-Xylene and M-Xylene	32,000
O-Xylene	8,000
Styrene	ND
N-Propylbenzene	ND
O-Chlorotoluene	ND
Trimethyl Benzene	ND
P-Dichlorobenzene	ND
M-Dichlorobenzene	ND
N-Butylbenzene	ND
O-Dichlorobenzene	ND
1,2,4-Trichlorobenzene	ND

ND = Not detected above the minimum reporting limit of 180.

Reported by:
Checked by:

HS HS

Appendix 1.1-38

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent: Alsy-
Address: Duffy Ave Hicksville Ct

Inspector: [illegible]

DATE	COMMENTS
3/85	Met with John Casabrini (plant manager) He stated all sludge removal had been completed last Wednesday August 28, 1985, and that the sludge is contained in two large water-tight steel tanks sitting on the ground rear of building awaiting to be removed to final dump site. Work was done by De Vito Cesspool Service I asked if the sides of the pool were washed with a high pressure hose. He stated to the best of his knowledge they had been washed. John stated that no one from DEC was present as an observer while the work was being done. Inspected inside two pools, could not see well enough to determine if properly R.R. WILLIS cleaned.

Appendix 1.1-33

New York State Department of Environmental Conservation

MEMORANDUM

TO: Rocky Piaggione
FROM: Terri Gerrish
SUBJECT: Alsy Manufacturing, Hicksville (V)
Summary Abatement Order (SAO)
DATE: 04/19/85

Received
NYDEC
Dept of Environmental Conservation

On Wednesday, April 17, I attended a meeting at the above-referenced site. The following people were also present:

Al Gindel	Alsy, President
John Casaburri	Alsy, Manager
Howie Shaeffer	Nassau County Health Dept. (NCHD)
Bob Willis	" " " "
Bill O'Brien	DEC, Reg. 1, Div. of Water
Dick Torrey	DEC, Albany, DSHW

NOTE: Also refer to a memo from Torrey to Iannotti.

The purpose of the meeting was twofold: 1) Alsy would provide the State with results of analysis of samples which had been collected in response to the SAO, and 2) other actions which were being taken by Alsy to comply with the SAO would be discussed. Furthermore, the NCHD had been told by Alsy that drilling of on-site groundwater wells, as agreed to by NCHD and Alsy, would begin.

Following are highlights of the meeting:

1. Analysis of the 04/12/85 samples collected and analyzed by H2M for Alsy was not complete. Partial results were verbally presented at the meeting. The samples tested for EP toxicity were not EP toxic. Volatile organic results which were available for two of the four sumps sampled indicated non-detectable concentrations.

2. Mr. Gindel was informed that a determination regarding hazardousness of the waste would be made after a hard copy of all results was received. D. Torrey explained to Mr. Gindel the

Rocky Piaggione
Terri Gerrish
Alsy Manufacturing
04/19/85
---

basic procedures which would have to be adhered to if the waste is hazardous, e.g. submittal of a removal plan including EPA I.D. numbers, manifesting material, health and safety procedures, etc.

3. I answered a number of questions from Mr. Gindel pertaining to field investigations of hazardous waste sites, consent orders, etc. I suggested that he may want to consult his attorney, or speak to an attorney in our office, which he declined to do.

4. D. Torrey and I told Mr. Gindel that he should respond in writing to Ms. Scherb (Reg. 1 Attorney) regarding the SAO. We very clearly stated that each item in the SAO should be specifically addressed in as much detail as possible. We suggested that his attorney or engineer may be able to assist him. Mr. Gindel said he would respond in writing.

5. Mr. Gindel called Joan Scherb's office to find out if she wanted him to go to the scheduled hearing. He and I both spoke to Laurie Reilly who said Ms. Scherb would call him back if he did not have to appear.

6. B. O'Brien was told that the illegal pipe discharges he had noticed has been blocked or disconnected.

7. The NCDH discussed their 'plan', which consisted of a blueprint, with Mr. Gindel.

8. Following the meeting, D. Torrey, B. O'Brien and I walked around the site. The NCHD people were at the drill rig when we arrived at this area of the site. The work being performed is completely unacceptable.

Rocky Piaggione
Terri Gerrish
Alsy Manufacturing
04/19/85
---

unacceptable. There was no proposed plan which was being followed. There was no cleaning station anywhere for the hollow stem auger or other tools. The well was installed without placing any sandpack, bentonite pellets, or cement grout. D. Torrey spoke to the drillers, Soil Mechanics -- please refer to his memo.

On Thursday, April 18, I spoke to Charlie Goddard, DSHW to make him aware of the situation, since the site is a State Superfund site. Later in the afternoon Phil Barbato, Div. Water, Reg. 1 returned my call. We discussed the events which had occurred; Phil called the NCDH and told them they must inform Alsy that there was no DEC approval of the work being performed.

I also called Ramid Iyer, H2M (516)752-9060, as we had discussed, to inquire about the status of results and to clarify questions about the work performed. I was told the following:

1. H2M was hired only to get rid of the material cited in the SAO. They were not hired as consultants to evaluate the results or prepare a report of what work was done. They would only be submitting a hard copy of analytical results. The samples were collected solely for the purpose of providing appropriate informaion to the waste disposal firm.

2. R. Iyer took a composite sample from the pile of soil opposite the leaching pools. The sample was composited from approximately five locations, not deeper than twelve inches but at least one inch below the surface.

Rocky P[illegible]one
Terri G[illegible]sh
Alsy Ma[illegible]turing
04/19/8[illegible]

[illegible]. R. Iyer was present when an employee of Alsy took samples from the pools. He confirmed what B. Willis had said -- that these samples were collected into jars supplied by H2M, at the surface of the liquid.

[illegible]. o The pool closest to the soil is called West 1st and was full.

o The pool next in direction toward the building is called West 2nd and was half full. The non-detectable organics results pertained to this pool.

o The pool closest to the building is called West 3rd and was empty.

o The pool east of West 3rd is called East 1st and was almost empty; it contained approximately 6-12 inches of liquid. Organics were non-detectable in this pool also.

[illegible]. Mr. Iyer thought East 1st was supposed to be badly contaminated. He instructed the lab to start at a detection limit of 100 ppb on all samples, but they went down to 10 ppb. He hoped for complete results including volatiles on West 1st and West 3rd by Friday April 19, 1985.

NOTE [illegible] following facts:

[illegible]. On April 17, B. O'Brien told me flow through the sumps goes sequentially from the sump nearest the building (West 3rd) to West 2nd to West 1st. West 3rd was always full.

WORKSHEET: COMMUNITY WATER SUPPLIES AND MONITORING WELLS WITHIN A 3-mi RADIUS OF THE SITE

Community Water Supply	Water District	Well Field	Well	Depth (ft)	Aquifer
	Jericho		6651	615	Magothy
			7781	459	Magothy
			4245	571	Magothy
			4246	458	Magothy
			7030	531	Magothy
	Hicksville		6190	605	Magothy
			6191	555	Magothy
			7562	550	Magothy
			9488		
			8249	415	Magothy
			3953	419	Magothy
			3878	478	Magothy
			9463	closest site	
			8778	590	Magothy
			8779	585	Magothy
			6192	632	Magothy
			6193	472	Magothy
			9180	635	Magothy
			7561	551	Magothy
			9212	610	Magothy
			3552	169	Magothy
			8526	601	Magothy
			5336	528	Magothy
			3488	169	Magothy
			8525	503	Magothy
	Plainview		4097	470	Magothy
			6580	601	Magothy
	Old Westbury		152	484	Magothy
	Westbury		5007	259	Magothy
			7353	39[illegible]	Magothy
			8007	564	Magothy
			5655	260	Magothy
			1910	77[illegible]	Magothy

WORKSHEET: COMMUNITY WATER SUPPLIES AND MONITORING WELLS WITHIN A 3-mi RADIUS OF THE SITE

Community Water Supply	Water District	Well Field	Well	Depth (ft)	Aquifer
	Westbury		7785	404	Magothy
			8497	544	Magothy
			5654	340	Magothy
	Bowling Green Estate		8956	535	Magothy
			8957	598	Magothy
	Levittown		5301	382	Magothy
			4451	408	Magothy
			2402	211	Magothy
			8371	674	Magothy
			2580	357	Magothy
			4450	472	Magothy
			7676	674	Magothy
			3194	259	Magothy
			3612	430	Magothy

Source: Kilburn, C. 1982. Ground-water Pumpage in Nassau County, Long Island, New York 1970-77. Introduction and User's Guide to the Data Compilation. USGS Open File Report 81-499.

W-1232

ORIGINAL—TO COMMISSION

County Nassau

Well No. N-3964 (on preliminary report)

State of New York
Department of Conservation
Division of Water Power and Control

COMPLETION REPORT—LONG ISLAND WELL

LOG

Ground Surf., El. ..... ft. above sea

..... ft.

Top of Well

Owner Metalab Equipment Corp.

Address 270 Duffy Ave., Hicksville, N.Y.

Location of well same

Depth below surface 103' feet

Depth to water: Ground water 52'-6" ft.; Finished well 103' ft.

Casings:

Diameter 6 in. ..... in. ..... in. ..... in.

Length 93 ft. ..... ft. ..... ft. ..... ft.

Sealing .....

Casings removed .....

Screens: Make Johnson Openings 40 slot

Diameter 3-5/8 in. with 6" packer in. ..... in. ..... in.

Length 10 ft. ..... ft. ..... ft. ..... ft.

Depth to top from top of casing ..... ft.

Pumping Test: Date July 14, 1952 Test or permanent pump? Permanent

Duration of Test ..... days 4 hours

Maximum Discharge 100 gallons per minute

Static Level Prior to Test ..... ft. ..... in. below top of casing

Level during Max. Pumping ..... ft. ..... in. below top of casing

Maximum Drawdown ..... ft.

Approx. time of return to normal level after cessation of pumping ..... hours ..... minutes

Pump Installed:

Type Turbine Make Deming Model No. 4700

Motive power Electric Make U.S. H.P. 10

Capacity 100 g.p.m. against ..... ft. of discharge head

No. bowls or stages 17 ..... ft. of total head

Drop Line: **Suction Line:**

Diameter ..... in. ..... in.

Length ..... ft. ..... ft.

Use of water Cooling of instruments

Work started July 2, 1952 Completed July 14, 1952

Date Dec. 17, 1952 Driller Henry Mathias

License No. 153

Depth	Log
1-1/2'	Top Soil
2-1/2'	Loam
3-1/2'	Dirty coarse Sand & Gravel
45'	Coarse sand Gravel & Large Stones
86'	Coarse Sand & Gravel
92'	Med. Sand & Grits
103'	Coarse Sand & Gravel

NOTE: Show log of well—materials encountered, with depth below ground surface, water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—p. 5-7.

RECEIVED

County NASSAU

ORIGINAL—TO COMMISSION

Appendix 13-2 Page 1 of 1

Well No. N-3878

State of New York
Department of Conservation
Division of Water Power and Control

LOG

Ground Surf., El. ..... ft. above ..... ft. Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner HICKSVILLE WATER DISTRICT

Address 85 BETHPAGE RD, HICKSVILLE, LI

Location of well KUHL AVE AT NEVADA ST., HICKSVILLE, LI

Depth below surface 428' feet

Depth to water: Ground water 68 ft.; Finished well 68 ft.

CASINGS: 30" x 18" GRAVEL PACK

Diameter 18" in. ..... in. ..... in. ..... in.
Length 375' ft. ..... ft. ..... ft. ..... ft.
Sealing PACKER
Casings removed —

LOG ON REVERSE SIDE

2" RISER & PACKER ON TOP OF SCREEN. TOTAL LENGTH: 5'

SCREENS: Make JOHNSON EVERDUR Openings #60 SLOT

Diameter 12" in. ..... in. ..... in. ..... in.
Length 53' ft. ..... ft. ..... ft. ..... ft.
Depth to top from top of casing 375' ft.

PUMPING TEST: Date 7-22-52 Test or permanent pump? TEST

Duration of Test ..... days 10 hours
Maximum Discharge 1613 gallons per minute
Static Level Prior to Test 67 ft. ..... in. below top of casing
Level during Max. Pumping 97 ft. ..... in. below top of casing
Maximum Drawdown 30 ft.
Approx. time of return to normal level after cessation of pumping — hours — minutes

PUMP INSTALLED:

Type DWT Make JOHNSTON PUMP Model No. 14" CC
Motive power EL. MOTOR Make U.S. MOTORS HP 125
Capacity 1200 g.p.m. against } 185' ft. of discharge head
No. bowls or stages 10 } 277' ft. of total head

DROP LINE: SUCTION LINE:

Diameter 10" in. 10" in.
Length 110' ft. 10' ft.

Use of water PUBLIC WATER SUPPLY

Work started 5-13-52 Completed 10-10-52

Date 12-16-52 Driller G.W. LAUMAN & CO. INC.

License No. 13

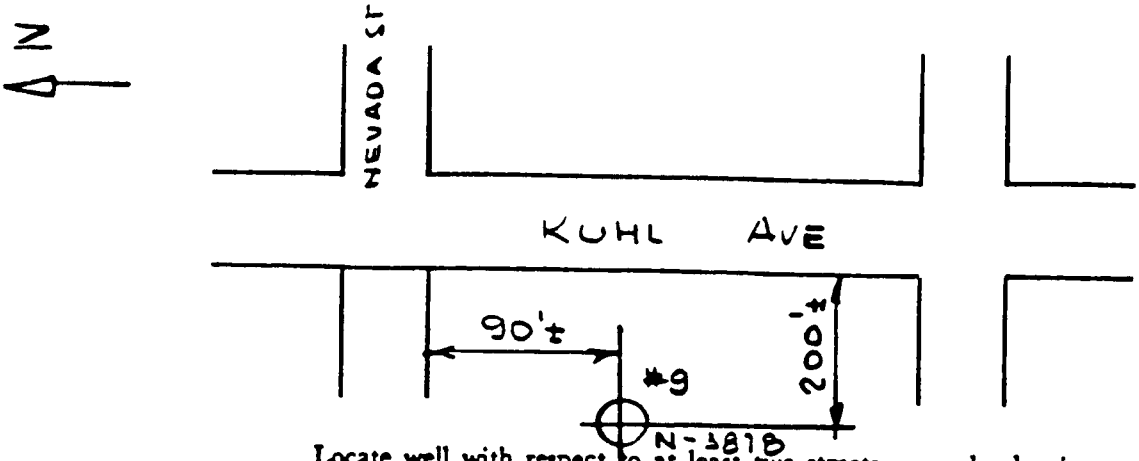
STATE OF NEW YORK WATER POWER AND CONTROL COMMISSION DEC 29 1952

R-240

NOTE: Show log of well—materials encountered, with depth below ground surface, water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

0'-1'	TOPSOIL
1'-3'	CLAY & SAND
3'-94'	SAND & GRAVEL, GRITS, BOULDERS
94'-115'	GRAY SANDY CLAY
115'-135'	FINE BRN SAND, STREAKS OF GRAY CLAY
135'-144'	MED FINE BRN SAND
144-155'	FINE GRAY SAND, STREAKS OF CLAY
155-160'	STREAKS OF CLAY & HARDPAN
160-180'	FINE GRAY SNDY CLAY, LAYERS OF HDPN
180-217'	FINE BRN SAND, SOME CLAY
217-233'	LAYERS OF SNDY CLAY & SOLID CLAY
233-245'	FINE GRAY SAND, SOME CLAY
245-265'	FINE BRN SAND, SOME CLAY
265-270'	SOLID CLAY
270'-280'	SANDY CLAY & STREAKS OF SOLID CLAY
280-315'	FINE GRAY SAND & STREAKS OF CLAY
315-339'	SOLID WHITE CLAY
339-347'	FINE GRAY SAND, STREAKS OF HARDPAN
347-379'	FINE GRAY SAND STREAKS OF CLAY
379-428'	MED. BROWN SAND WITH STREAKS OF CLAY, GRITS, HARDPAN

3 of 19

County Nassau

ORIGINAL—TO COMMISSION

Well No. N-5655

State of New York
Department of Conservation
Division of Water Resources

LOG
Ground Surf., El. ..... ft. above
..... ft.
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner WESTBURY WATER DISTRICT

Address 160 Drexel Ave. Westbury, L.I., N.Y,

Location of well T-#12 State St. New Cassel (L-5)

Depth of well below surface 258' feet

Depth to ground water from surface 57' 8" feet

RESOURCE MGT. SERV.
MAY 18 1972
DUR. WATER REG.
WESTBURY
REC'D.

CASINGS:
Diameter ..... in. ..... in. ..... in. ..... in.
Length ..... ft. ..... ft. ..... ft. ..... ft.
Sealing .....
Casings removed .....

SCREENS: Make ..... Openings .....
Diameter ..... in. ..... in. ..... in. ..... in.
Length ..... ft. ..... ft. ..... ft. ..... ft.
Depth to top from top of casing ..... ft.

PUMPING TEST: Date 5/12/72 Test or permanent pump? Perm.
Duration of Test ..... days 3 hours
Maximum Discharge 1074 gallons per minute
Static level prior to test 57 ft. ..... in. below top of casing
Level during Max. Pumping 92 ft. 2 in. below top of casing
Maximum Drawdown 35' 2" ft.
Approx. time of return to normal level after cessation of pumping ..... hours 30 minutes

PUMP INSTALLED:
Type DWT Make Layne Model No. DRHC
Motive power electric Make GE H.P. 50
Capacity 1050 g.p.m. against 23 ft. of discharge head
No. bowls or stages 3 945 ft. of total head

DROP LINE: SUCTION LINE:
Diameter 10" in. 8" in.
Length 120' ft. 11 ft.

Method of Drilling (Rotary, cable tool, etc.) .....
Use of Water Public Supply
Work started 2/8/72 Completed 5/12/72
Date 5/17/72 Driller LAYNE-NEW YORK CO. INC.
License No. 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe [illegible]

Installed a new 15 DRHC 3 stage pump bowl. Corrected well print will follow.

County ..... 4 of 1

cc A 2755

ORIGINAL—TO COMMISSION

State of New York
Department of Conservation
Division of Water Power and Control

Well No. ..... (on preliminary report)

LOG

Ground Surf., El. ..... ft. above

..... ft.

Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner WESTBURY WATER DISTRICT WELL #12 (Layne Well #5)

Address Westbury, Long Island, N.Y.

Location of well No. side of main line of L.I.R.R. between Brooklyn Ave. & State St., Westbury, New York

Depth of well below surface 250 feet

Depth to ground water from surface 48'6" feet

CASINGS:

Diameter	20 in.	12 in.	in.	in.
Length	200 ft.	79 ft.	ft.	ft.
Sealing	Cemented			
Casings removed	None			

SCREENS: Make Layne Openings Shutter

Diameter	12 in.	in.	in.	in.
Length	50 ft.	ft.	ft.	ft.

Depth to top from top of casing 205 ft.

PUMPING TEST: Date August 16, 1956 Test or permanent pump? Permanent

Duration of Test ..... days 8 hours

Maximum Discharge 1050 gallons per minute

Static level prior to test 48 ft. 6 in. below top of casing

Level during Max. Pumping 86 ft. ..... in. below top of casing

Maximum Drawdown 37'6" ft.

Approx. time of return to normal level after cessation of pumping ..... hours 30 minutes

STATE OF NEW YORK
WATER POWER AND
SEP 4 - 1956
CONTROL COMMISSION
RECEIVED

PUMP INSTALLED:

Type Turbine Make Layne Model No. [illegible]

Motive power electric Make G.E. H.P. 50

Capacity 1050 g.p.m. against } ~~115~~ 27 ft. of discharge head

No. bowls or stages 4 } 115 ft. of total head

DROP LINE: **SUCTION LINE:**

Diameter	10 in.	8 in.
Length	125 ft.	11 ft.

Use of water Public Supply

Work started Nov. 14, 1955 Completed Aug. 16, 1956

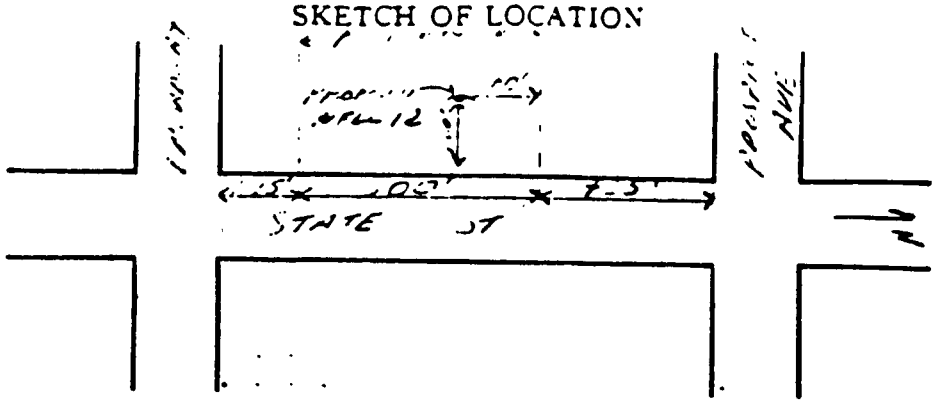
Date August 31, 1956 Driller Layne-New York Co. Inc.

License No. 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

SKETCH OF LOCATION



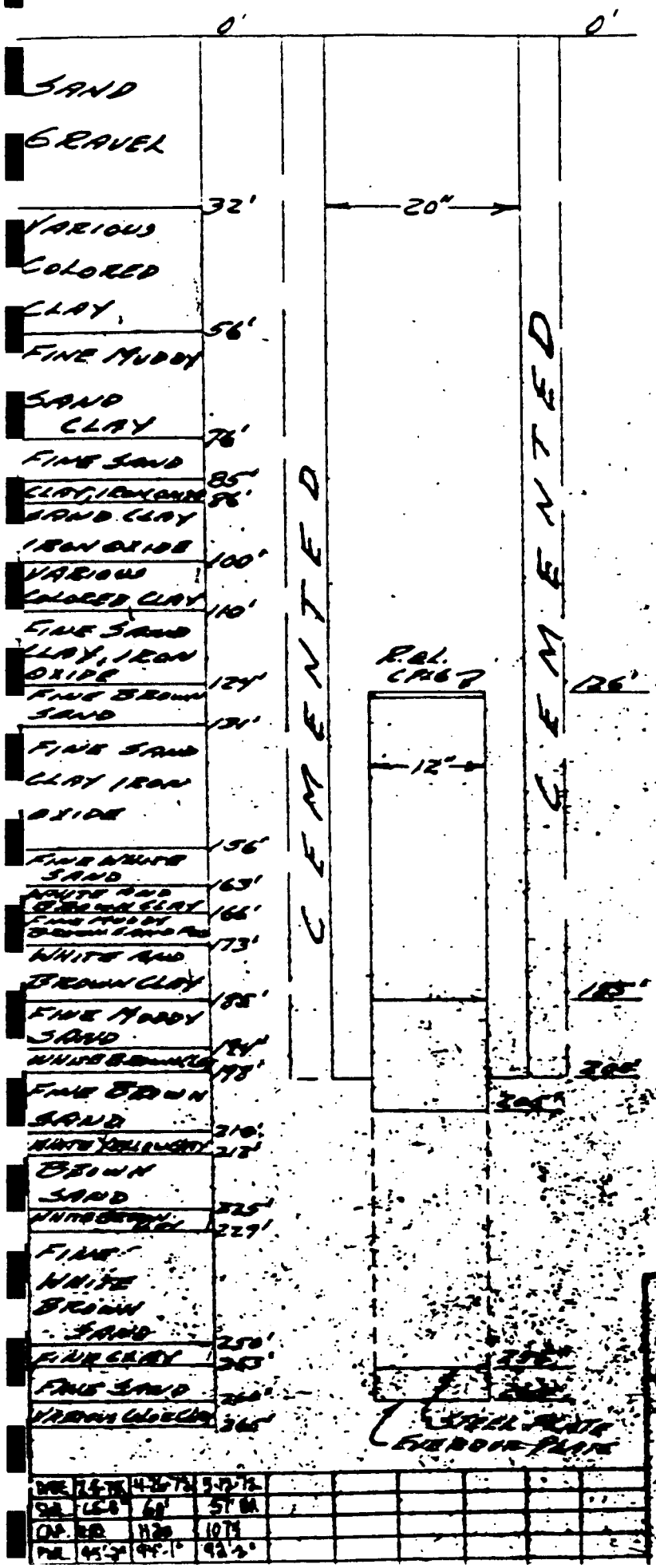
Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

4-9-65 - Layne H2O @ 56'2" - removed pump cleaned well repaired pump reset pump - no changes made in well.

6-24-77 Layne - Routine overhaul of pump. Depth to water @ 53 ft.

6 & 19



DATE	7-6-72	4-26-72	5-17-72
DR.	LCB	LB	STM
CHK.	RB	HJB	JDM
PHL.	45'-3"	44'-1"	42'-3"

Material

Pit: 200' OF 20" STEEL PIPE WELDED
59' OF 12" STEEL PIPE T & C
20' OF 12" EVERDUR WELDED

Screen: 50' OF 12" EVERDUR

Cone: 5' OF 12" EVERDUR WITH STEEL & EVERDUR PLATES

Pump 9.26.72 NEW BOWL

Type ~~AYMC~~ DRHC	Shop No. 33705-1
Setting 125' SF	Size ~~14W~~ 15"
Suction 11' OF 8"	Stages ~~X~~ 3
Basket —	Impellers BE
Discharge 10" x 10' CPLD	Head TF1018
Tubing 2 1/8"	Press B. P. 12"
Shafting 1 1/2"	Air Line ~~1 3/4~~ 1 3/8"

JOHNSON GEAR DRIVE
MODEL NO 70
SER. 25793 RATIO 4.5

Motor

Make G.E.	Type K
Volts 220	Cycle 60
Phase 3	Amp.
H. P. 50	R. P. M. 1175
Frame 445P	Form VERTICAL
Model 5K445KC2A	Serial 4T5111402
UPPER BEARING 629A32061	CODE F
LOWER BEARING 2892332P14	

Well

Started 11-11-55	Static Level 47' FIN. 4
First Test 12-1-55	Production 1078 FIN. 107
Final Test 3-18-56	Pumping Level 87 FIN. 8
Accepted 3-19-56	Guarantee 1050
Clear Depth 260'	Press. 70

Driller: P. GOYETTE

Installer: MUD BAY

RESOURCE MGT. SERV.

JUN 21 1972

BUR. WATER REG.

REC'D

LAYNE NEW YORK CO., INC. NEW YORK, N. Y.

WATER SUPPLY CONTRACTORS

WESTBURY WATER DIST.

WESTBURY, N.Y.

SCHOLE STREET

DRAWN BY SJB

APPROVED BY

LAYNE WELL NO. 17 TYPE

DRAWING NO.

County N-8956 Nassau

ORIGINAL—TO COMMISSION

WSA-6212

State of New York

Department of Conservation

Division of Water Resources

Well No. N-[illegible]

LOG

Ground Surf., El. ..... ft. ab[illegible]

^ ..... ft.

v

Top of We[illegible]

COMPLETION REPORT—LONG ISLAND WELL

Owner BOWLING GREEN ESTATES WATER DISTRICT

Address Town of Hempstead Water Dept. 1995 Prospect Ave., East Meadow, N.Y.

Location of well T-#1 w/o Iris Place, s/o Astor Place

Depth of well below surface 535' feet

Depth to ground water from surface 38'-2" 10/4/73 feet

CASINGS:

Diameter	36" in.	20" in.	12" in.	in.
Length	7' ft.	466' ft.	84'-3" ft.	ft.

Sealing cement

Casings removed 36" surface

SCREENS: Make Layne Openings #7 Slot

Diameter	12" ID in.	in.	in.	in.
Length	60' ft.	ft.	ft.	ft.

Depth to top from top of casing 470' ft.

Log attached

Well print to follow.

PUMPING TEST: Date 10/10/75 Test or permanent pump? Perm.

Duration of Test ..... days 7-1/2 hours

Maximum Discharge 1380 gallons per minute

Static level prior to test 44 ft. ..... in. below top of casing

Level during Max. Pumping 144 ft. ..... in. below top of casing

Maximum Drawdown 100' ft.

Approx. time of return to normal level after cessation of pumping ..... hours 30 minutes

PUMP INSTALLED:

Type DWT Make Layne - ~~[illegible]~~ Model No. TLC

Motive power electric Make U.S. H.P. 100

Capacity 1400 g.p.m. against 71.4 ft. of discharge head

No. bowls or stages 6 215.4 ft. of total head

DROP LINE: SUCTION LINE:

Diameter	10" in.	10" in.
Length	169'-8" ft.	9'-9" ft.

Method of Drilling (Rotary, cable tool, etc.) Reverse Rotary

Use of Water Public Supply

Work started 8/3/73 Completed 10/10/75

Date 2/18/76 Driller Layne-New York Co., Inc.

License No. 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

8 of 19

LAYNE-NEW YORK CO., INC.

1250 WEST ELIZABETH AVE., LINDEN, N. J.

LOG OF WELL

Well No. 1 N-8956 Job No. 0-046-01 Test No.

Log of Well for (Owner) BOWLING GREEN ESTATES WATER DISTRICT

Address

Representative, if any

Well Located at Iris Place, Bowling Green in Nassau County, State of New York

Furnish sketch of location Date Drilling started 8/13/73 Date Test Hole Completed 8/16/73

Total depth to bottom of Well Diameter Test Hole 26" Elevation at Ground Level, if available

Elevation at Ground Level, if available Distance from where measurements were taken to ground level

Water stands when not pumping feet inches from the surface of the ground

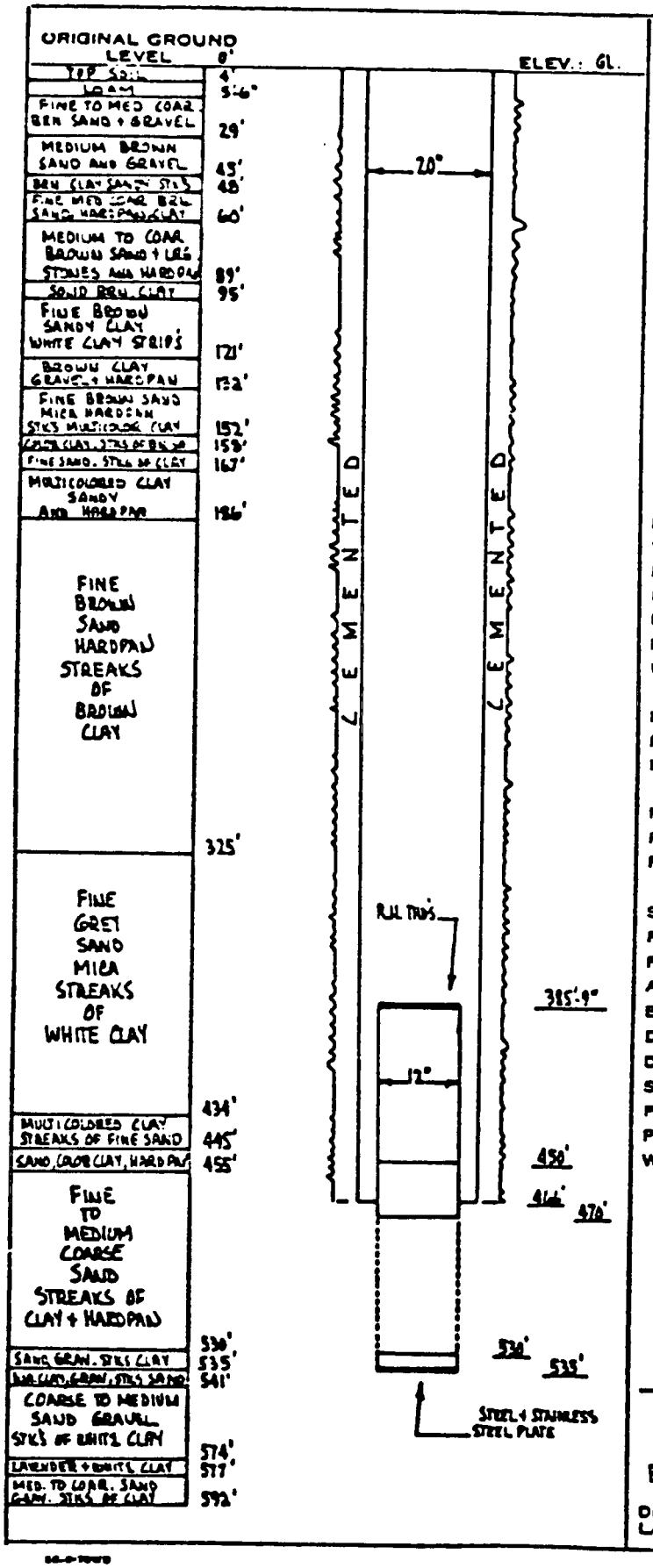
All Measurements taken from ground level

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	Length of Core Taken	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	Length of Core Taken	FORMATION FOUND EACH STRATUM
4	4		Top soil	109	434		Fine gray sand & mica stks of white clay
1'6"	5' 6"		Loam	11	445		Multi colored clay stks of fine sand
23'6"	29'		Fine med. to coarse br. sand & gravel	10	455		Fine sand, multi colored clay, hardpa
16	45		Med. brown sand Gravel	75	530		Fine to med coarse s. stks of clay, hardpa
3	48		Brown clay sandy streaks	5	535		Med sand, gravel, st of clay
12'	60		Fine med. to coarse brown sand & Hardpan	6	541		White clay, gravel, stks of sand
			Streaks of br. clay	33	574		Coarse to med. sand, gravel, stks of white
29	89		Med to coarse br. sand & lg stones & hardpan				clay
6	95		Solid brown clay	3	577		Lavender & white clay
26	121		Fine br. sandy, clay White clay strips	15	592		Med. to coarse sand, gravel & stks of whit
			Hardpan	6	598		clay, brown & gray cl solid
11	132		Br. clay, gravel & hardpan				
20	152		Fine br sand, mica, hardpan, stks multi-				
			colored clay				
6	158		Multi colored clay Stks of br. sand				
9	167		Fine br sand, stks multi colored clay				
19	186		Multi colored clay sandy & hardpan				
139	325		Fine br sand, hardpan stks of br clay				

Remarks and opinion of Test

Reverse XXX

9 of 17



MATERIAL

PIPE: 466' OF 20" DIAM x .375" WALL BLACK STEEL PIPE WELDED
64' OF 12" DIAM x .375" WALL BLACK STEEL PIPE WELDED
25' OF 12" DIAM x 7.GA -304 STAINLESS STEEL PIPE WELDED

SCREEN: 60' OF 12" DIAM x 7-GA. - LAYNE - 304 - STAINLESS STEEL SHUTTER
SLOT NO: - 7 _ STKS - 134

PLUG: 3/4" STEEL + 7GA. STAINLESS STEEL PLATES WELDED

GRAVEL: 93000 LBS. OF # 3 MORIE

SEAL: CEMENT GROUT OUTSIDE OF 20" CASING TO 466'-GL.

PUMP

SIZE 14"	NUMBER 75795
STAGES 6	TYPE TLC
SETTING 178'-6 1/2" TO S.F.	COLUMN 10" x 10' CPLD.
TUBING 2 1/2"	SHAFTING 1 1/2"
BOWLS CAST IRON ENAMELLED	IMPELLERS BRONZE
IMP. SHAFT 416 STAINLESS	SUCTION 10" OP 10"
STRAINER	PRESS. B.P.
HEAD TF-10LB	AIR LINE 2. 1@ 169'-6" 1@ 188'

MOTOR

MAKE U.S.	TYPE RU
VOLTS 230/460	CYCLE 60
PHASE 3	AMP. 244/122
H. P. 100	RPM 1180
FRAME 444 TPA	NON REV. YES
MODEL VHS	SERIAL NO. C-521029
UPPER BRG. 7322M	LOWER BRG. 6215J

GEAR DRIVE

MFG.	MODEL
RATIO	SERIAL NO.
HVY. THRUST	NON-REV.

ENGINE

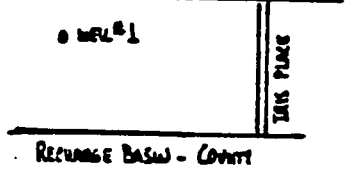
MFG.	MODEL
RPM	CONTINUOUS H. P.
FUEL	SERIAL NO.

WELL

STARTED 8-3-73	CLEAR DEPTH 532'-6" BP.
FIRST TEST 10-4-73	METHOD REVERSE ROTARY
FINAL TEST 10-10-75	GUAR. CAP. 1400
ACCEPTED 10-10-75	GUAR. PRESS.
B. P. ELEV.	FORMATION MAGOTHY
DIST. TO G.W. 390'-GL.	DRILLER CICOGNA + BOOTH

DATE	10-4-73	10-10-75			
STATIC LEV.	78'-2"	44'-BP			
PRODUCTION	1404 GPM	1400 GPM			
PUMP. LEVEL	132'-3"	144'			
WATER TEMP.		52°			

LOCATION SKETCH



LAYNE-NEW YORK CO., INC. - LINDEN, N. J.
WATER SUPPLY CONTRACTORS

BOWLING GREEN WATER DIST - W/O IRIS PLACE - BOWLING GREEN L.I.

DRAWN BY NM
LAYNE WELL #
STATE # N-8956
CUSTOMER WELL # 1

2

10 of 19

ORIGINAL—TO COMMISSION

County Nassau

Well No. N 8526

State of New York
Department of Conservation
Division of Water Resources

LOG
Ground Surf., El. ..... ft. above
..... ft.
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Hicksville Water District

Address Hicksville, New York

Location of well # 4-2 NEWBRIDGE ROAD

Dept of well below surface 601'-2" feet

Depth to ground water from surface 54 feet

CASINGS:
Diameter 20 in. ..... in. ..... in. ..... in.
Length 511 ft. ..... ft. ..... ft. ..... ft.
Sealing .....
Casings removed .....

SCREENS: Make E.E. Johnson Openings 50 Slot
Diameter SEE REVERSE SIDE in. ..... in. ..... in.
Length ..... ft. ..... ft. ..... ft. ..... ft.
Depth to top from top of casing 397'-7" ft.

PUMPING TEST: Date 3/20/69 Test or permanent pump? T
Duration of Test ..... days 8 hours
Maximum Discharge 1421 gallons per minute
Static level prior to test 54 ft. ..... in. below top of casing
Level during Max. Pumping 87 ft. 5 in. below top of casing
Maximum Drawdown 5 33'-5" ft.
Approx. time of return to normal level after cessation of pumping ..... hours 20 minutes

PUMP INSTALLED:
Type DWT Make Johnston Model No. 12DC
Motive power Electric Make US H.P. 125
Capacity 1400 g.p.m. against 187 ft. of discharge head
No. bowls or stages 6 287 ft. of total head

DROP LINE: SUCTION LINE:
Diameter 10 in. 10 in.
Length 110 ft. 10 ft.

Use of water Public Supply

Work started 1/12/69 Completed 3/28/69

Date 4/1/69 Driller The Lauman Company, Inc.

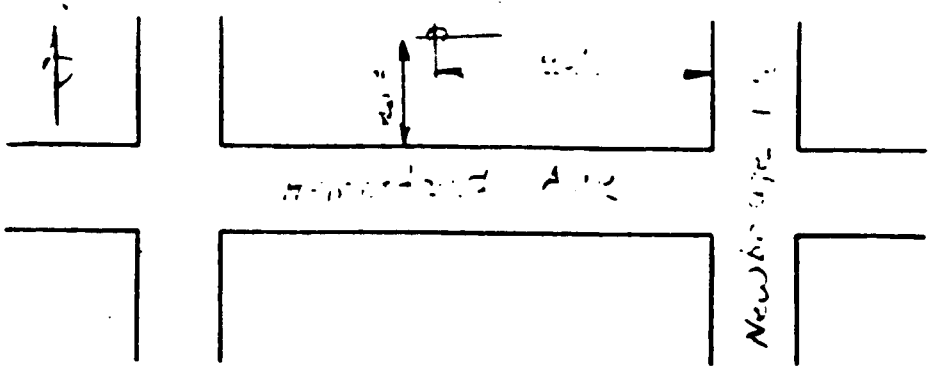
License No. 13

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, addi-

APR 15 19..

11 of 12

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

397-7" to 500'-2"	12" Riser
500-2" to 520'	TW Blank
520'- 555'-7"	12" Screen
555'-7"to 575'-7"	T.W. Blank
575'-7" to 601'-2"	12" Screen

Well N-8526

Screened in Basal Magothy Formation

T.D. - 642 ft below lsd

Elev. - +120 ft ± above msl

Yield - 1,420 gpm; dd: 34 ft

Sp. Cap. - 42 gpm/ft of dd

Correlation (from GW-18 and U.S.G.S. records)

U.P. 0 to 93 ft below lsd

Magothy 93 to 529 ft below lsd

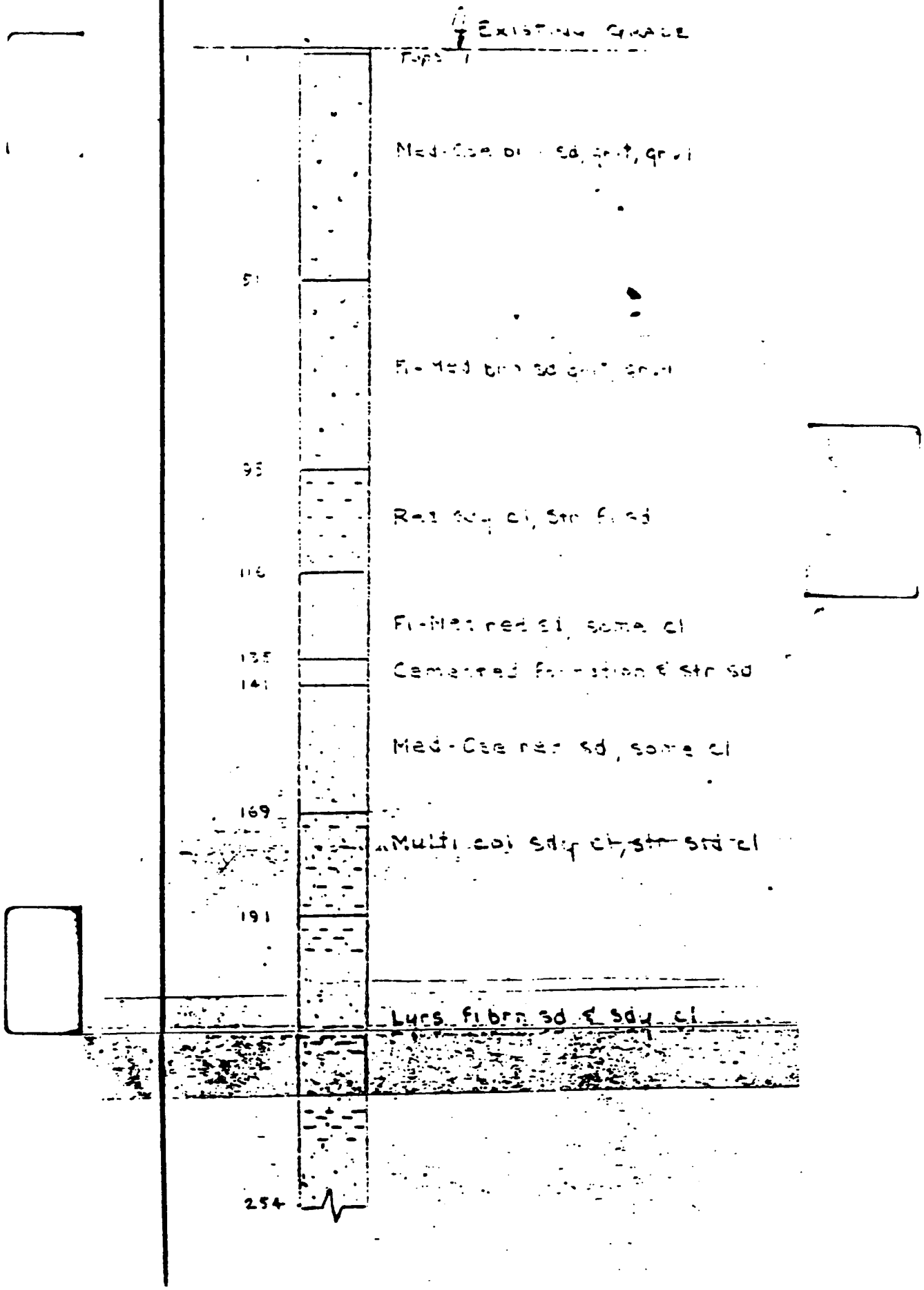
Basal Magothy 529 to 642 ft below lsd

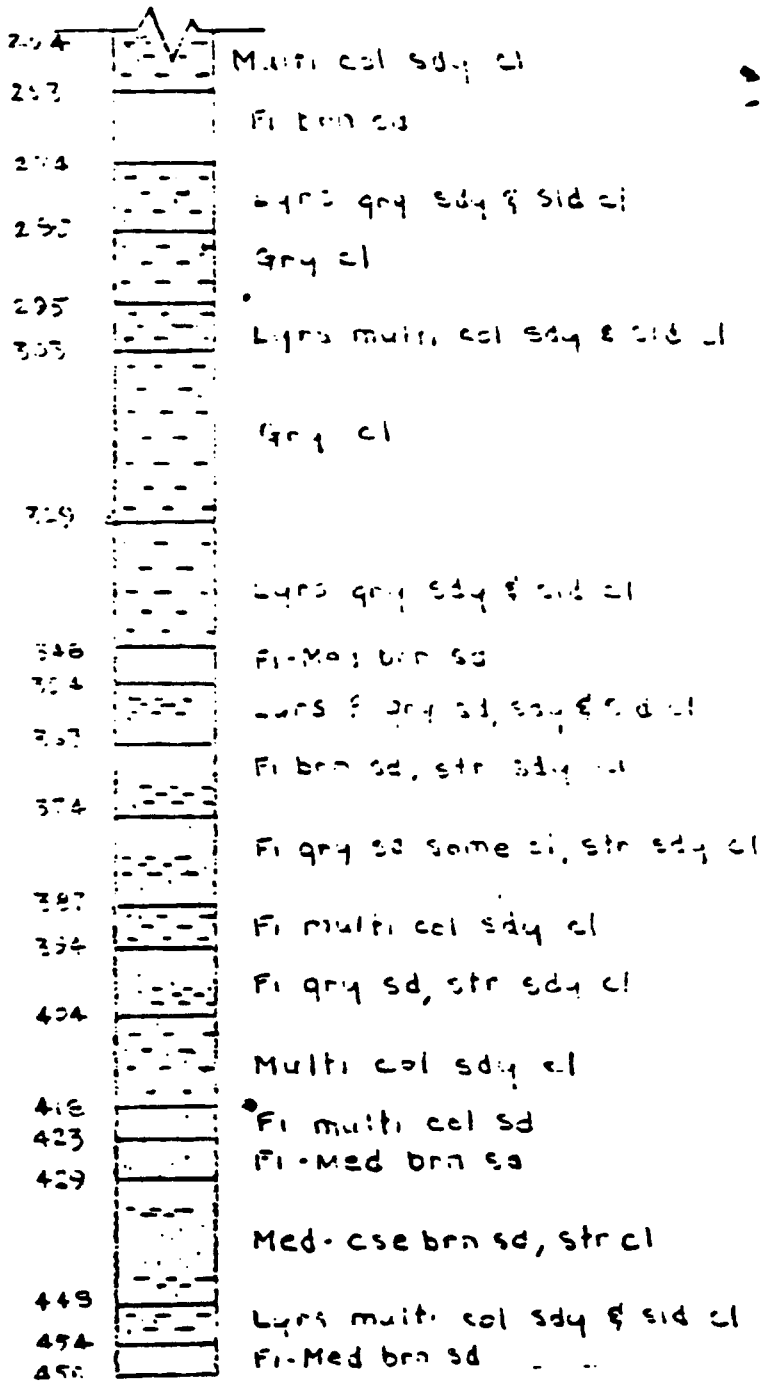
(Raritan clay should be at about 670 ft ± below lsd)

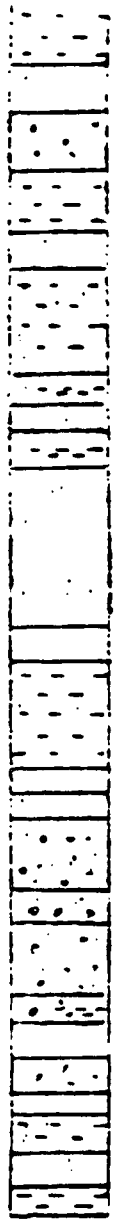
(Correlation good)

4/21/67 USGS Hans Jensen

526 4.2 HICKSVILLE 4. 12 of 17




Multi col sdy cl
Fi brn sd
Lyrs gry sdy & sld cl
Gry cl
Lyrs multi col sdy & sld cl
Gry cl
Lyrs gry sdy & sld cl
Fi-Med brn sd
Lyrs & gry sd, sdy & sld cl
Fi brn sd, str sdy cl
Fi gry sd some cl, str sdy cl
Fi multi col sdy cl
Fi gry sd, str sdy cl
Multi col sdy cl
Fi multi col sd
Fi-Med brn sd
Med-cse brn sd, str cl
Lyrs multi col sdy & sld cl
Fi-Med brn sd



	Fi brn sdy cl
453	
	Med-Cse grit sd
474	
	Med-Cse brn sd some grit
493	
	Fi gry sdy cl
492	
	Fi gry sd
498	
	Multi col sdy cl
514	
	Fi multi col sd, str sdy cl
519	
	Fi-med brn sd
523	
	Fi gry sd & cl, str pyrite
529	
	Med-cse gry sd some cl
553	
	Med-cse brn sd
559	
	Multi col sdy cl
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578	
	Fi-Med gry sd some cl
582	
	Med-cse brn sd some grit
593	
	Med-cse red sd grit, grvl
599	
	Med brn sd some grit
609	
	Cse brn sd, sld cl, grit, grvl
613	
	Fi brn sd
619	
	Fi-Med brn sd some grit
624	
	Fi brn sd
623	
	Brn cl, cse sd, grit, grvl
633	
	Med brn sd
635	
	Silty brn cl
642	

15 4 1

County Nassau

ORIGINAL—TO COMMISSION

Well No. N 8807

State of New York
Department of Conservation
Division of Water Resources

LOG

Ground Surf., El. ..... ft. above

..... ft.

Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Certified Industries

Address 344 Duffy Ave. Hicksville,

Location of well SAME

Depth of well below surface 139'-9" feet

Depth to ground water from surface 17 feet

CASINGS:

Diameter 8 in. ..... in. ..... in. ..... in.
Length 109'-2" ft. ..... ft. ..... ft. ..... ft.
Sealing .....
Casings removed .....

SCREENS: Make Johnson S S Openings 50 Slot

Diameter 8 in. ..... in. ..... in. ..... in.
Length 30'-7" ft. ..... ft. ..... ft. ..... ft.
Depth to top from top of casing 109'-2" ft.

PUMPING TEST: Date 10-25-71 Test or permanent pump? T

Duration of Test ..... days 4 hours
Maximum Discharge 361 gallons per minute
Static level prior to test 17 ft. in. below top of casing
Level during Max. Pumping 54 ft. in. below top of casing
Maximum Drawdown 37 ft.
Approx. time of return to normal level after cessation of pumping ..... hours ..... minutes

PUMP INSTALLED:

Type DWT Make Johnston Model No. 8CS
Motive power Elec Make US H.P. 30 75
Capacity 350 g.p.m. against { 116 ft. of discharge head
No. bowls or stages 7 } 174 ft. of total head

DROP LINE: SUCTION LINE:

Diameter 5 in. 5 in.
Length 40 ft. 10 ft.

Method of Drilling (Rotary, cable tool, etc.) Rotary

Use of Water Washing

Work started 10-13-71 Completed 10-25-71

Date 3-14-72 Driller LAUMAN COMPANY, INC.

License No. 13

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

17 4 10

HICKSVILLE WATER DISTRICT
TEST WELL #9
LOG FROM GRADE

FORMATION	THICKNESS OF STRATUM	DEPTH OF STRATUM
Top soil	2 ~~1'-6"~~	~~1'-6"~~ 2
Loam	4 ~~3'-6"~~	~~5'~~ 6
Coarse brown sand grit & gravel	80'	~~85'~~ 86
Med coarse brown sand grit & lumps of clay	52'	~~137'~~ 138
Med fine brown sand	14'	~~154'~~ 155
Fine gray sand & some clay	11'	~~165'~~ 166
Fine gray sandy clay & layers of hard pan	15'	~~180'~~ 181
Fine brown sand & some clay	37'	~~217'~~ 218
Layers of fine gray sandy clay & solid clay	16'	~~233'~~ 234
Fine gray sand & some clay	34'	~~267'~~ 268
Fine gray sandy clay	40'	~~307'~~ 308
Fine brown sand & some clay	24'	~~331'~~ 332
Fine gray sandy clay	5'	~~336'~~ 337
Solid brown clay	11'	~~347'~~ 348
Fine brown sand	4'	~~351'~~ 352
Fine gray sandy clay	28'	~~379'~~ 380
Fine brown sand & some clay	48'	~~427'~~ 428
Fine brown sandy clay & layers of hard pan	21'	~~448'~~ 449
Fine red sand & some clay	8'	~~456'~~ 457
Fine gray sandy clay	20'	~~476'~~ 477
Fine brown sand & some clay	8'	~~484'~~ 485
Layers of gray sandy clay & solid clay	41'	~~525'~~ 526
Layers of solid gray clay, sandy clay grit & gravel	29'	~~554'~~ 555
Layers of solid gray clay & sandy clay	24'	~~578'~~ 579
Med coarse brown sand & grit	6'	~~584'~~ 585
Solid brown clay	22'	~~606'~~ 607

STATE OF N...
WATER FO...
MAR 15 1952
CONTROL COMMISSION
RECEIVED

D-255

W.C.A. 2176 18 Hy 13

County

ORIGINAL—TO COMMISSION

Well No. [illegible]
(on preliminary report)

State of New York
Department of Conservation
Division of Water Power and Control

LOG

Ground Surf., El. ..... ft. above sea

..... ft.
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner HICKSVILLE WATER DISTRICT - WELL #9

Address 85 BETHPAGE RD., HICKSVILLE, LI, NY

Location of well KUHL AVE NR NEVADA ST., HICKSVILLE LI

Depth below surface 606' feet

Depth to water: Ground water NOT OBSERVED ft.; Finished well ..... ft.

LOG ON ATTACHED SHEET

CASINGS: 5 7/8" ROTARY TEST HOLE

Diameter ..... in. ..... in. ..... in. ..... in.
Length ..... ft. ..... ft. ..... ft. ..... ft.
Sealing .....
Casings removed .....

SCREENS: Make ..... Openings .....
Diameter ..... in. ..... in. ..... in. ..... in.
Length ..... ft. ..... ft. ..... ft. ..... ft.
Depth to top from top of casing ..... ft.

PUMPING TEST: Date ..... Test or permanent pump? .....
Duration of Test ..... days ..... hours
Maximum Discharge ..... gallons per minute
Static Level Prior to Test ..... ft. ..... in. below top of casing
Level during Max. Pumping ..... ft. ..... in. below top of casing
Maximum Drawdown ..... ft.
Approx. time of return to normal level after cessation of pumping ..... hours ..... minutes

PUMP INSTALLED:
Type ..... Make ..... Model No. .....
Motive power ..... Make ..... H.P. .....
Capacity ..... g.p.m. against } ..... ft. of discharge head
No. bowls or stages ..... } ..... ft. of total head

DROP LINE: SUCTION LINE:
Diameter ..... in. ..... in.
Length ..... ft. ..... ft.

Use of water FORMATION TEST HOLE

Work started 2-13-52 Completed 2-26-52

Date 3-14-52 Driller C.W. LAUMAN & CO. INC.

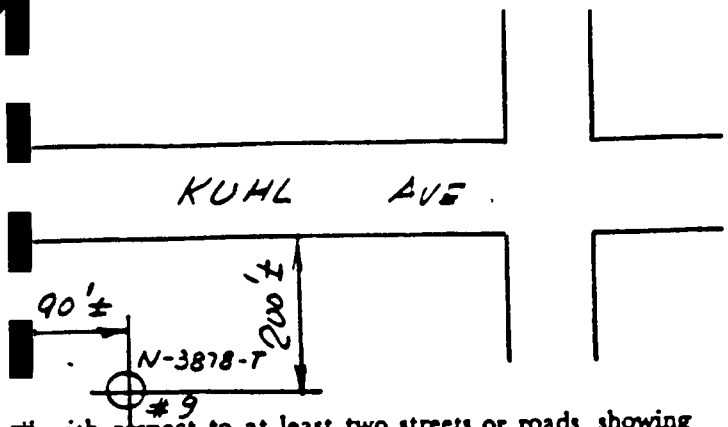
License No. 13

NOTE: Show log of well—materials encountered, with depth below ground surface, water-bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

STATE OF NEW YORK
WATER POWER AND
MAR 15 1952
R-256
CONTROL COMMISSION

SKETCH OF LOCATION



with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Alsy Mfgt. Plainview Area Well Info.

[illegible] TOR

25 Adams Avenue
Bethpage, NY 11714

Official: Sal Greco, Jr. Chairman
Bd. of Commissioners

Consult: H2M

Superintendent: Ron Krumholz

Lab: H2M

Population: 37,650 (1981)

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda(#BDG-1)

WELLS(9)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Broadway	Bethpage	5-1	8004	740	M	1400
N/S Park La	Bethpage	6-1	3876	386	M	1400
	Bethpage	6-2	8941	770	M	1400
E/S Adams Avenue	Bethpage	7A	8767	640	M	1400
	Bethpage	8A	8768	678	M	1400
	Bethpage	9	6078	275	M	1400
Sophia St	Bethpage	10	6915	609	M	1400
	Bethpage	11	6916	611	M	1400
Broadway	Bethpage	BDG-1	9591	682	M	1380

STORAGE TANKS(2)

Address	Village	Capacity (MG)	Type
Adams Avenue	Bethpage	1.25	Elevated
Sophia Street	Bethpage	1.50	Ground

HICKSVILLE WATER DISTRICT [illegible]

4 Dean Street
Hicksville, NY 11802

Official: Nicholas Brigandi, Chairman Consult: H2M
Bd. of Commissioners

Superintendent: Richard Woodwell Lab: H2M

Population: 57,000 (1981)

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda,
OR(Packed Tower Aeration)(#1-5)

WELLS(19)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Bethpage Rd	Hicksville	1-4	7562	545	M	1400
	Hicksville	1-5	8249	490	M	1400
	Hicksville	1-6	9488	575	M	1380
W/S Newbridge Rd	Hicksville	2-2	5336	523	M	1200
Jerusalem Ave	Hicksville	3-2	8525	503	M	1400
W/S Newbridge Rd	Hicksville	4-2	8526	601	M	1400
N/S Stewart Ave	Hicksville	5-2	7561	550	M	1400
	Hicksville	5-3	9212	604	M	1400
W/S Kuhl Ave	Hicksville	6-1	3953	419	M	1200
	Hicksville	6-2	3878	428	M	1200
E/S Miller Pl	Hicksville	7-1	6190	600	M	1200
	Hicksville	7-2	6191	550	M	1200
Dean St	Hicksville	8-1	6192	626	M	1400
	Hicksville	8-2	6193	467	M	1400
	Hicksville	8-3	9180	630	M	1400
Alicia St	Hicksville	9-1	8778	590	M	1400
	Hicksville	9-2	8779	585	M	1400
	Hicksville	9-3	10208		M	
Barclay St	Hicksville	10-1	9463	638	M	1380

[illegible] (Continued)

STORAGE TANKS(5)

Address	Village	Capacity (MG)	Type
[illegible] Rd	Hicksville	1.25	Elevated
[illegible] St	Hicksville	1.5	Ground
Stewart Ave	Hicksville	2.0	Ground
Newbridge Rd and Barter La	Hicksville	0.5	Elevated
Newbridge Rd	Hicksville	2.0	Ground

JERICHO WATER DISTRICT (19) [illegible] 101

1/5 Convent Road
Syosset,NY 11791

Official: Edward F. Bracken,Jr. Consult: Sidney Bowne and Son
Chairman,Bd. of Commissioners

Superintendent: Len Martling Lab: Mytest

Population: 64,500 (1981)

Treatment: Chlorination(E),Caustic Soda

WELLS(20)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
N/S Convent La	Syosset	3	198	617	M	1150
	Syosset	4	199	600	M	1120
	Syosset	5	570	600	M	1200
N/S Wheatley Rd	Brookville	6	3474	512	M	1200
	Brookville	7	3475	482	M	1200
	Brookvillek	16	7446	493	M	1200
W/S Motts Cove Rd	Roslyn Harbor	11	5201	504	L	1200
W/S Cypress Dr	Woodbury	12	6092	631	M	1200
	Woodbury	13	6093	604	M	1200
N/S Tobie La	Jericho	14	6651	610	M	1200
S/S Jericho Tpk	Jericho	9	4245	565	M	1200
Cantiaque Rock	Jericho	15	7030	530	M	1200
Cold Spring Rd	Laurel Hollow	17	7593	468	M	1200
W/S Split Rock Rd	Syosset	18	7772	563	M	1200
	Syosset	19	7773	560	M	1200
		20	10149		M	

JERICHO WATER DISTRICT (Continued)

WELLS (Continued)

Address	Village	Local Num.	N-Num	Depth (Ft.)	Strata	Capacity (GPM)
E. of Norwich Rd	Jericho	22	7781	454	M	1200
W. Idlewild Rd	Woodbury	23	9043	688	M	1200
Pine La	Muttontown	25	8755	590	M	1400
N. E. Simonson Rd	O. Brookville	27	8713	372	M	1400

STORAGE TANKS (6)

Address	Village	Capacity (MG)	Type
Piping La	Muttontown	3.0	Ground
Wheatley Rd	Brookville	1.0	Elevated
Convent La	Syosset	1.5	Elevated
Jericho Tpke	Jericho	1.5	Elevated
Orchard Dr	Woodbury	2.0	Stand Pipe
Split Rock Rd	Syosset	3.4	Stand Pipe

[illegible] WATER DISTRICT [illegible] [illegible]

[illegible] Manetto Hill Road
Plainview, NY 11803

Official: John Edwards, Chairman
Bd. of Commissioners

Consult: H2M

Superintendent: Samuel Pancirolli

Lab: H2M

Population: 40,000 (1981)

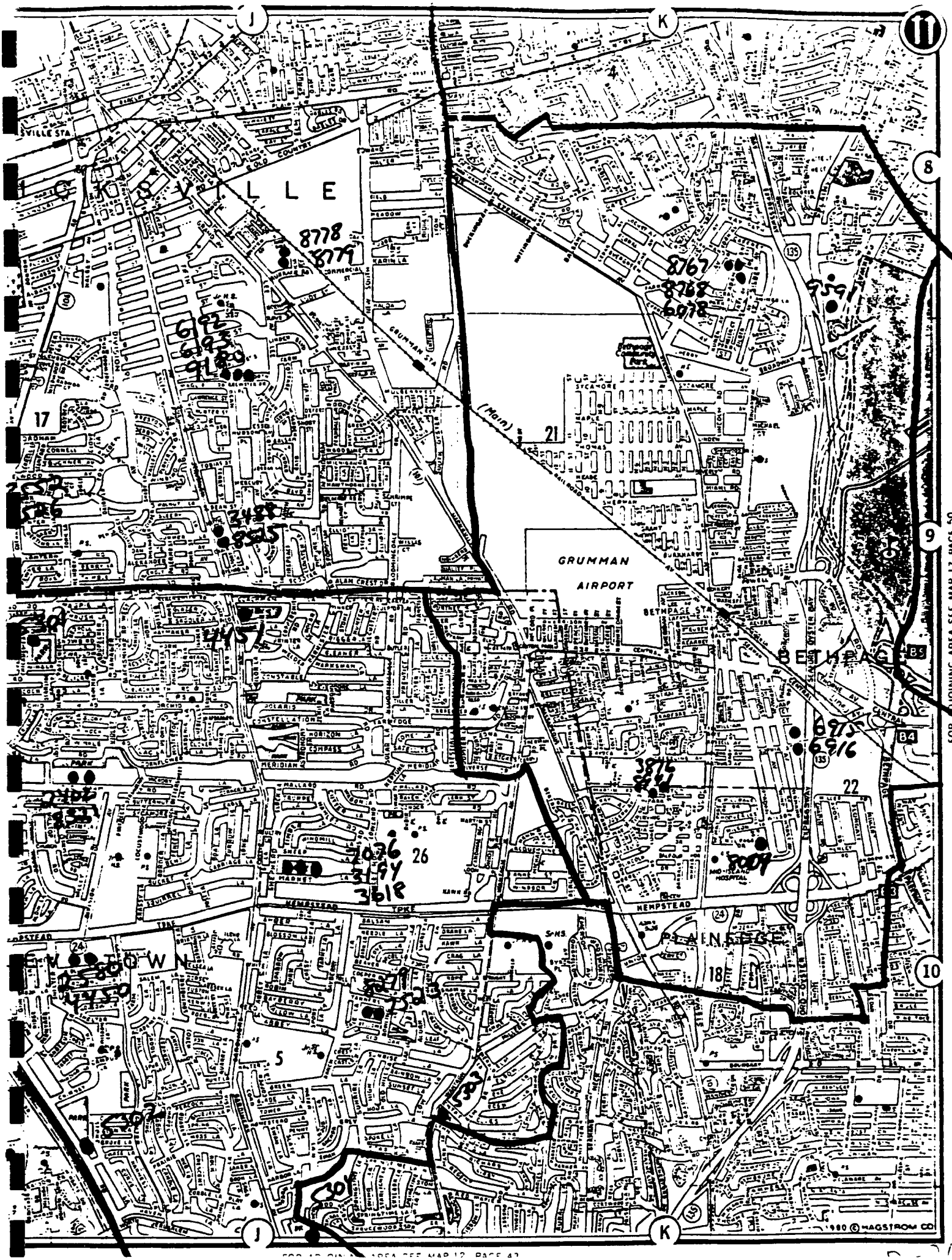
Treatment: Chlorination, Polyphosphate, Lime

WELLS(11)

Address	Village	Local Num	N-num	Depth (Ft)	Strata	Capacity (GPM)
W/S Manetto Hill Rd	Plainview	1-1	4095	490	M	1200
	Plainview	1-2	4096	494	M	1200
S/S Donna Dr	Plainview	2-1	7526	688	M	1400
E/S Orchard St	Plainview	3-1	4097	463	M	1200
	Plainview	3-2	6580	596	M	1200
Southern Pkwy	Plainview	4-1	6076	358	M	1200
	Plainview	4-2	6077	460	M	1200
S/S Winding Rd	Plainview	5-1	6956	597	M	1400
	Plainview	5-2	7421	559	M	1400
	Plainview	5-3	8054	580	M	1400
	Plainview	5-4	8595	610	M	1350

STORAGE TANKS(3)

Address	Village	Capacity (MG)	Type
S/S Donna Dr	Plainview	1.25	Elevated
Southern Pkwy	Plainview	1.5	Ground
Winding Rd	Plainview	2.0	Ground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GRUMMAN
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(Main)
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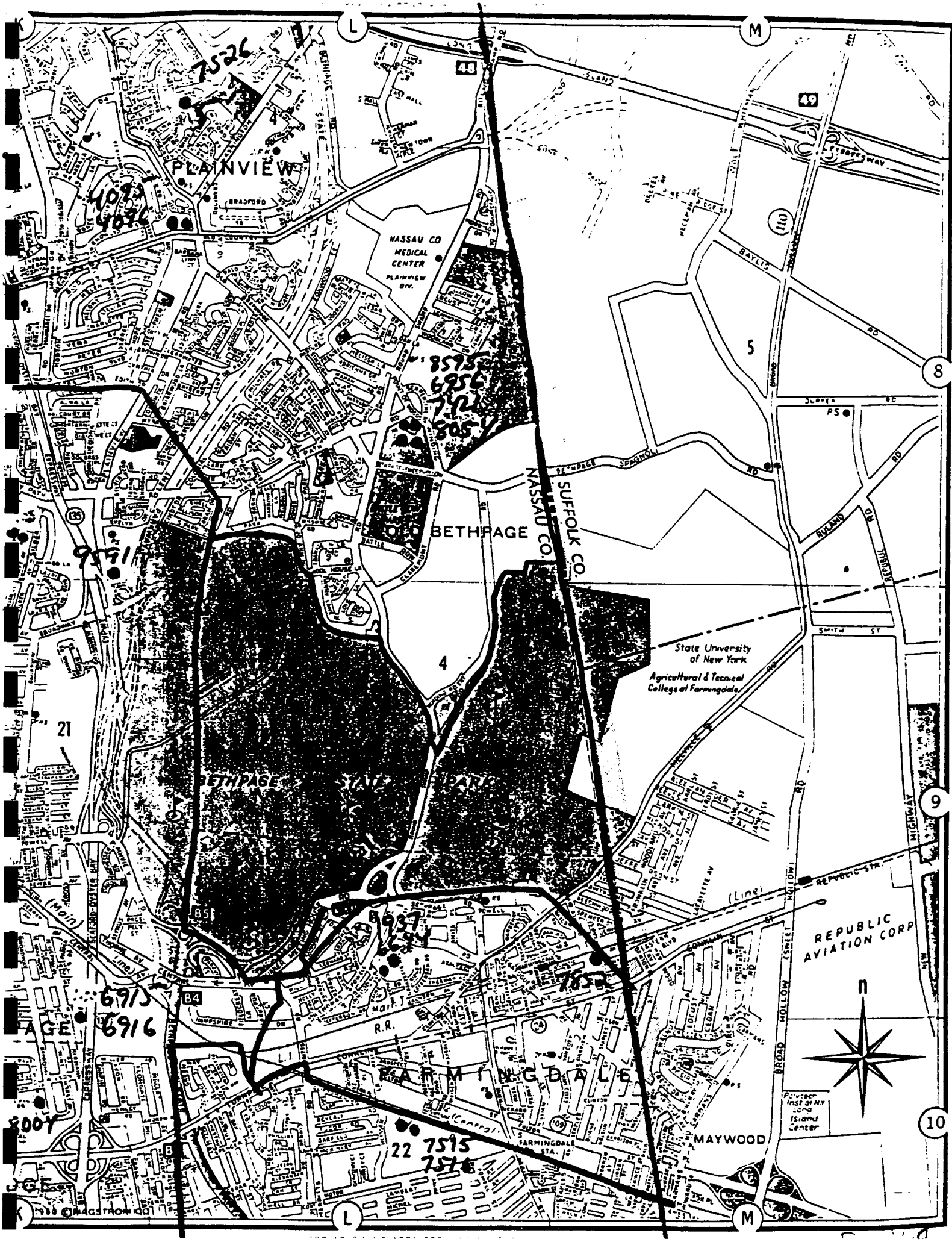
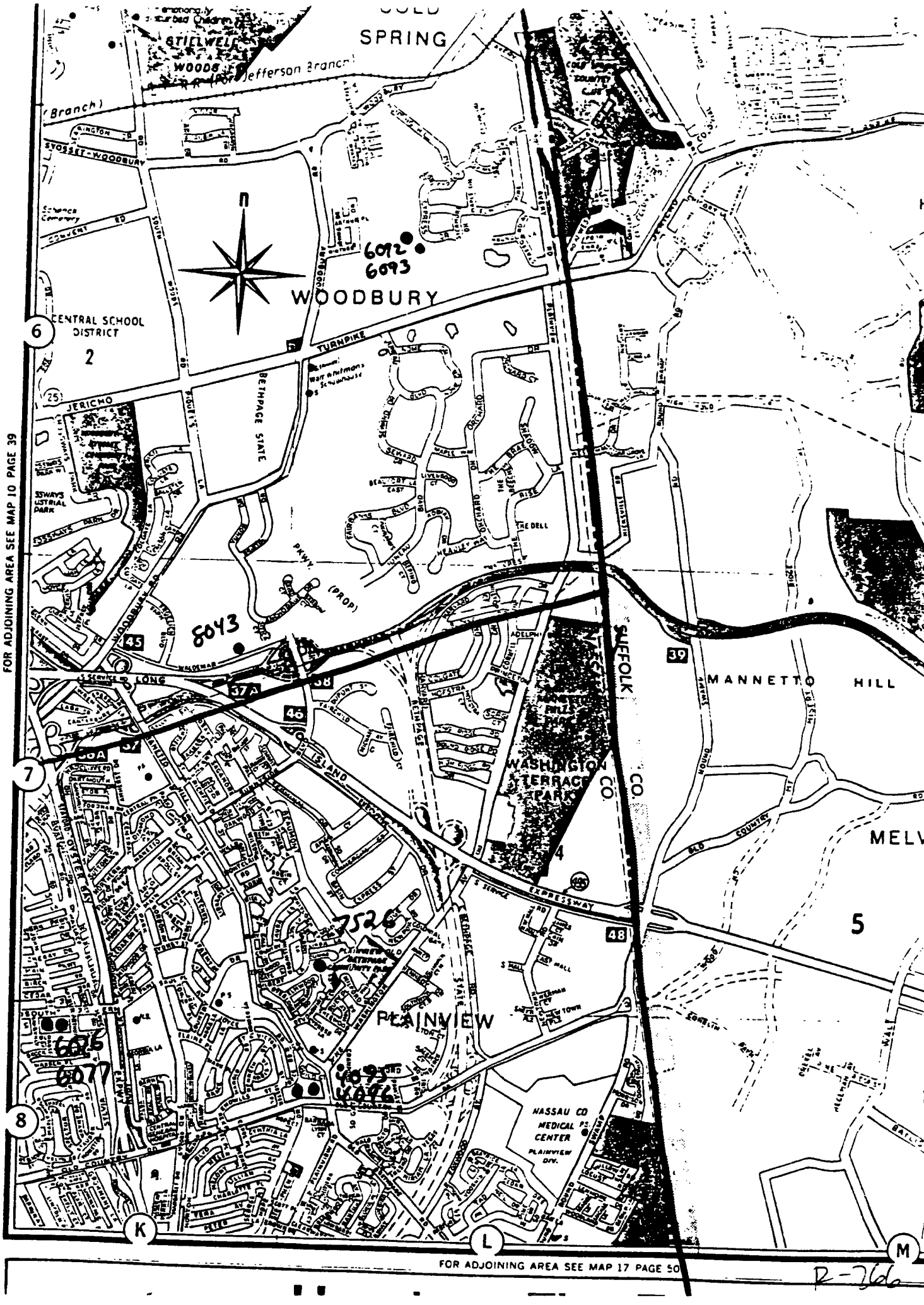
4451
6915
6916
3876
8009
7076
3194
3618
2580
4450
8279
7523
5303
5301
FOR ADJOINING AREA SEE MAP 17 PAGE 50
1980 © HAGSTROM CO



PLAINVIEW
NASSAU CO MEDICAL CENTER PLAINVIEW DIV.
OLD BETHPAGE
NASSAU CO.
SUFFOLK CO.
State University of New York
Agricultural & Tecnical College at Farmingdale
BETHPAGE STATE PARK
REPUBLIC AVIATION CORP
FARMINGDALE
MAYWOOD
Polytech Inst of N.Y. Long Island Center
7526
4095
4096
8595
6956
7421
8054
9591
8937
6654
7852
6915
6916
8004
22
7515
7516



SPRING
STILLWELL WOODS
(Branch)
Jefferson Branch
SYOSSET-WOODBURY
WOODBURY
6092
6093
CENTRAL SCHOOL DISTRICT
2
TURNPIKE
JERICHO
BETHPAGE STATE
PKWY. (PROP)
8043
LONG
ISLAND
EXPRESSWAY
SUFFOLK CO.
MANNETTO HILL
WASHINGTON TERRACE PARK
MELV
5
7526
PLAINVIEW
6076
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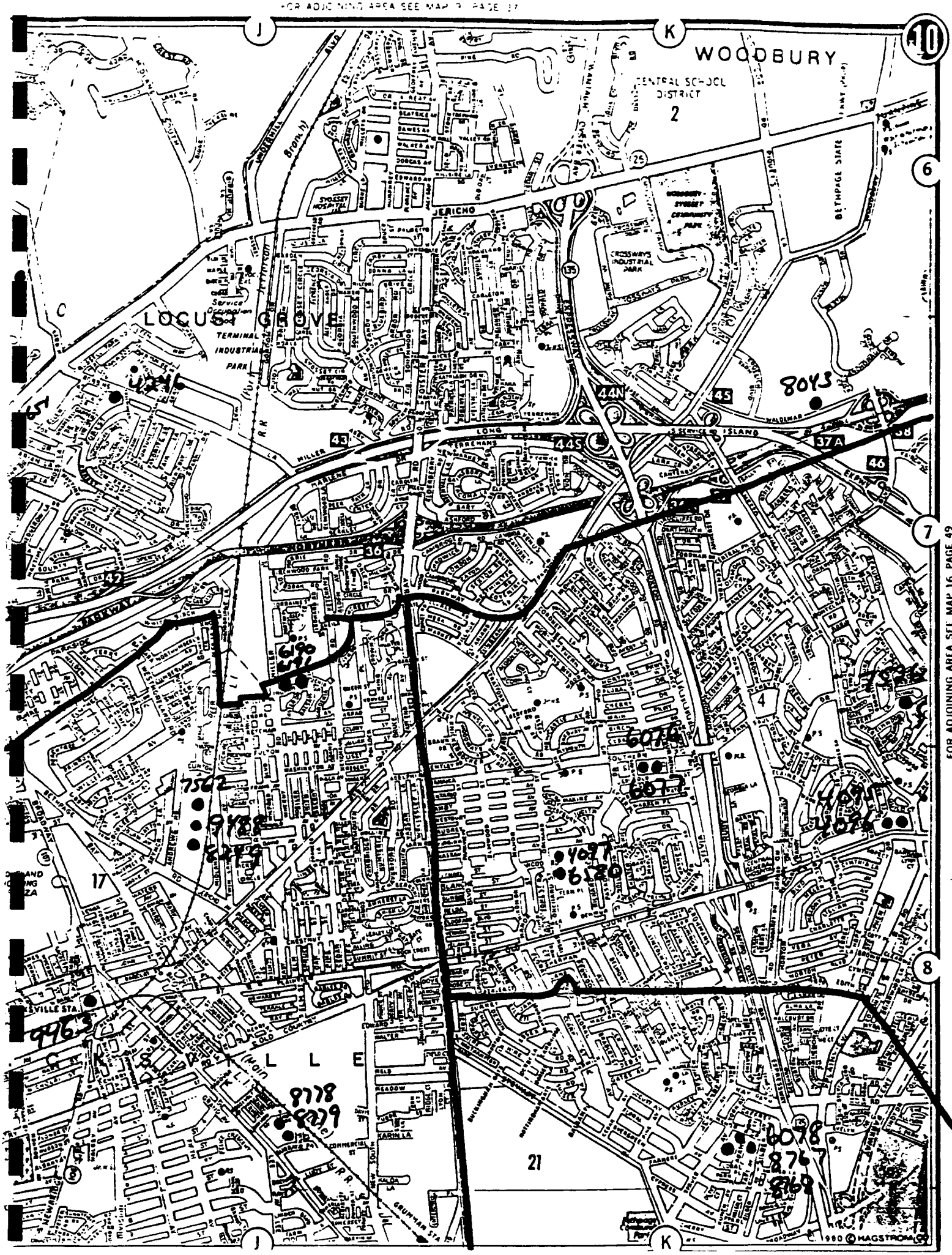
4096
NASSAU CO MEDICAL CENTER
PLAINVIEW DIV.
FOR ADJOINING AREA SEE MAP 10 PAGE 39
FOR ADJOINING AREA SEE MAP 17 PAGE 50

R-766

FOR ADJOINING AREA SEE MAP 9 PAGE 37



FOR ADJOINING AREA SEE MAP 16 PAGE 49

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

ORGANICS TRAFFIC REPORT

Sample Number **BK 264**

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

✓ Water
___ Soil/Sediment

④ **Ship To:** 0 0 88
York Laboratories
300 Monroe Turnpike
Monroe, CT 06468

Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** EIT 2

Sampling Personnel:
RANDY RICE
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 (Begin) 6/16/87 (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 6/[illegible] Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	3	240 oz.	OK - No Tags
Water (VOA)	2	80 ml.	OK - No Tags 1 has air
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ **Shipping Information**

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4486830655
Airbill Number:

⑧ **Sample Description**

___ Surface Water ___ Mixed Media
✓ Ground Water ___ Solids
___ Leachate ___ Other (specify) _____

⑨ **Sample Location**

GW-2
MATCHES INORGANIC SAMPLE MBK 532

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

LABFILE COPY

R-268

BK 264

0 0 83

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: YORK

Lab Sample ID No: 1086002

Sample Matrix: WATER

Data Release Authorized By: Larry Lewis

Case No: ~~7495~~ 7459

QC Report No:

Contract No: 68-01-7157

Date Sample Received: 6.17.87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6.19.87

Date Analyzed: 6.19.87

Conc/Dil Factor: 1.0 pH N/A

Percent Moisture: (Not Decanted) N/A

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	~~2JB~~
67-64-1	Acetone	~~[illegible]~~B
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	~~[illegible]~~B
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	~~[illegible]~~B
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	140 ~~5U~~ 5U 7-17-87
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	0.7JB 5U 7-17-87
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	~~[illegible]~~JB
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	10U
591-78-6	2-Hexanone	10U
127-18-4	Tetrachloroethene	~~[illegible]~~
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
108-88-3	Toluene	~~[illegible]~~
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	5U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Name: York Labs
EPA 7495

Sample Number
BK 264

0 0 30

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 06-18-87

Date Analyzed: 07-02-87

Conc/Dil Factor: 1.0

Percent Moisture (Decanted) N/A

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/L or ug/Kg (Circle One)
08-95-2	Phenol	10U
11-44-4	bis(-2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
1-73-1	1, 3-Dichlorobenzene	
06-46-7	1, 4-Dichlorobenzene	
0-51-6	Benzyl Alcohol	
-50-1	1, 2-Dichlorobenzene	
5-48-7	2-Methylphenol	
538-32-9	bis(2-chloroisopropyl)Ether	
5-44-5	4-Methylphenol	
1-64-7	N-Nitroso-Di-n-Propylamine	
72-1	Hexachloroethane	
95-3	Nitrobenzene	
-59-1	Isophorone	
75-5	2-Nitrophenol	
-67-9	2, 4-Dimethylphenol	
85-0	Benzoic Acid	50U
-91-1	bis(-2-Chloroethoxy)Methane	10U
-83-2	2, 4-Dichlorophenol	
-82-1	1, 2, 4-Trichlorobenzene	
20-3	Naphthalene	
47-8	4-Chloroaniline	
8-3	Hexachlorobutadiene	
50-7	4-Chloro-3-Methylphenol	
7-6	2-Methylnaphthalene	
7-4	Hexachlorocyclopentadiene	
06-2	2, 4, 6-Trichlorophenol	
5-4	2, 4, 5-Trichlorophenol	50U
8-7	2-Chloronaphthalene	10U
74-4	2-Nitroaniline	50U
1-3	Dimethyl Phthalate	10U
96-8	Acenaphthylene	10U
09-2	3-Nitroaniline	50U

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	10U
51-28-5	2, 4-Dinitrophenol	50U
100-02-7	4-Nitrophenol	50U
132-64-9	Dibenzofuran	10U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	50U
534-52-1	4, 6-Dinitro-2-Methylphenol	50U
86-30-6	N-Nitrosodiphenylamine (1)	10U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	50U
85-01-8	Phenanthrene	10U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	20U
56-55-3	Benzo(a)Anthracene	10U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/95

Laboratory Name: York Labs

Case No. 7495

Sample Number: BK 2604

0 (91

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/19/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	0.05u
319-86-8	Delta-BHC	0.05u
58-89-9	Gamma-BHC (Lindane)	0.05u
76-44-8	Heptachlor	0.05u
309-00-2	Aldrin	0.05u
1024-57-3	Heptachlor Epoxide	0.05u
959-98-8	Endosulfan I	0.05u
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	0.10u
72-20-8	Endrin	0.10u
33213-65-9	Endosulfan II	0.10u
72-54-8	4, 4'-DDD	0.10u
1031-07-8	Endosulfan Sulfate	0.10u
50-29-3	4, 4'-DDT	0.10u
72-43-5	Methoxychlor	0.50u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	0.5u
11141-16-5	Aroclor-1232	0.5u
53469-21-9	Aroclor-1242	0.5u
12672-29-6	Aroclor-1248	0.5u
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	1.0u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000. or W_s _____ V_t 10,000. V_i ~~4.0~~ 2.0 mcm 7/16/87

R-271

Name: YORK LABORATORIES
#: 7495

Sample Number
BK264

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE DETECTED	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Lab Name: York Laboratories
EPA 7495

Sample Number
BK 264

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
6.				
9.				
	ALDOL COND. PROD.	BNA	8.10	31

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 • 703 557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BK 271

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

✓ Water
___ Soil/Sediment

④ **Ship To:** York Laboratories
200 Monroe Turnpike
Monroe, CT 06468

Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** FIT 2

Sampling Personnel:
Paul Rice
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 (Begin) 6/16/87 (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 6/17/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	3	240 oz.	OK - No Tops
Water (VOA)	2	80 ml.	OK - No Tops
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other	1 (KK)	1 (KK)	

⑦ **Shipping Information**

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4486830655
Airbill Number:

⑧ **Sample Description**

___ Surface Water ___ Mixed Media
___ Ground Water ___ Solids
___ Leachate ✓ Other (specify) TRIP BLANK

⑨ **Sample Location**

MATCHES INORGANIC SAMPLE MBK 539

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

D-774

Sample Number
BK 271

Organics Analysis Data Sheet
(Page 1)

0 0606

Laboratory Name: York Laboratories
Case No: 7495
Lab Sample ID No: 1086 008
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7157
Data Release Authorized By: Cheryl D. Lewis
Date Sample Received: 6-17-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6-18-87
Date Analyzed: 6-18-87
Conc/Dil Factor: 1.0 pH N/A
Percent Moisture: (Not Decanted) N/A

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	~~5~~ B
67-64-1	Acetone	~~5~~ B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	~~4~~ B
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	~~1~~ B 5u SLP 7-17-87
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	~~3~~ B
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	~~1~~ B 5u SLP 7-17-87
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	~~3~~ B 5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R-275
11/85

Name: York Labs

EPA 7495

Sample Number: BK271

0.060

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 06-18-87

Date Analyzed: 07-02-87

Conc/Dil Factor: 1.0

Percent Moisture (Decanted) N/A

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10u
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
06-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
8-95-3	Nitrobenzene	
78-59-1	Isophorone	
8-75-5	2-Nitrophenol	
05-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	50u
1-91-1	bis(-2-Chloroethoxy)Methane	10u
20-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
-20-3	Naphthalene	
6-47-8	4-Chloroaniline	
7-68-3	Hexachlorobutadiene	
-50-7	4-Chloro-3-Methylphenol	
-57-6	2-Methylnaphthalene	
-47-4	Hexachlorocyclopentadiene	
-06-2	2, 4, 6-Trichlorophenol	
-95-4	2, 4, 5-Trichlorophenol	50u
-58-7	2-Chloronaphthalene	10u
-74-4	2-Nitroaniline	50u
1-11-3	Dimethyl Phthalate	10u
8-96-8	Acenaphthylene	10u
9-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

9/85 R-276

Form I

7-85

0 0609

Laboratory Name: York Labs

Case No. 7495

Sample Number: BK271

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6/19/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	0.05u
319-86-8	Delta-BHC	0.05u
58-89-9	Gamma-BHC (Lindane)	0.05u
76-44-8	Heptachlor	0.05u
309-00-2	Aldrin	0.05u
1024-57-3	Heptachlor Epoxide	0.05u
959-98-8	Endosulfan I	0.05u
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	0.10u
72-20-8	Endrin	0.10u
33213-65-9	Endosulfan II	0.10u
72-54-8	4, 4'-DDD	0.10u
1031-07-8	Endosulfan Sulfate	0.10u
50-29-3	4, 4'-DDT	0.10u
72-43-5	Methoxychlor	0.50u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	0.5u
11141-16-5	Aroclor-1232	0.5u
53469-21-9	Aroclor-1242	0.5u
12672-29-6	Aroclor-1248	0.5u
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	1.0u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

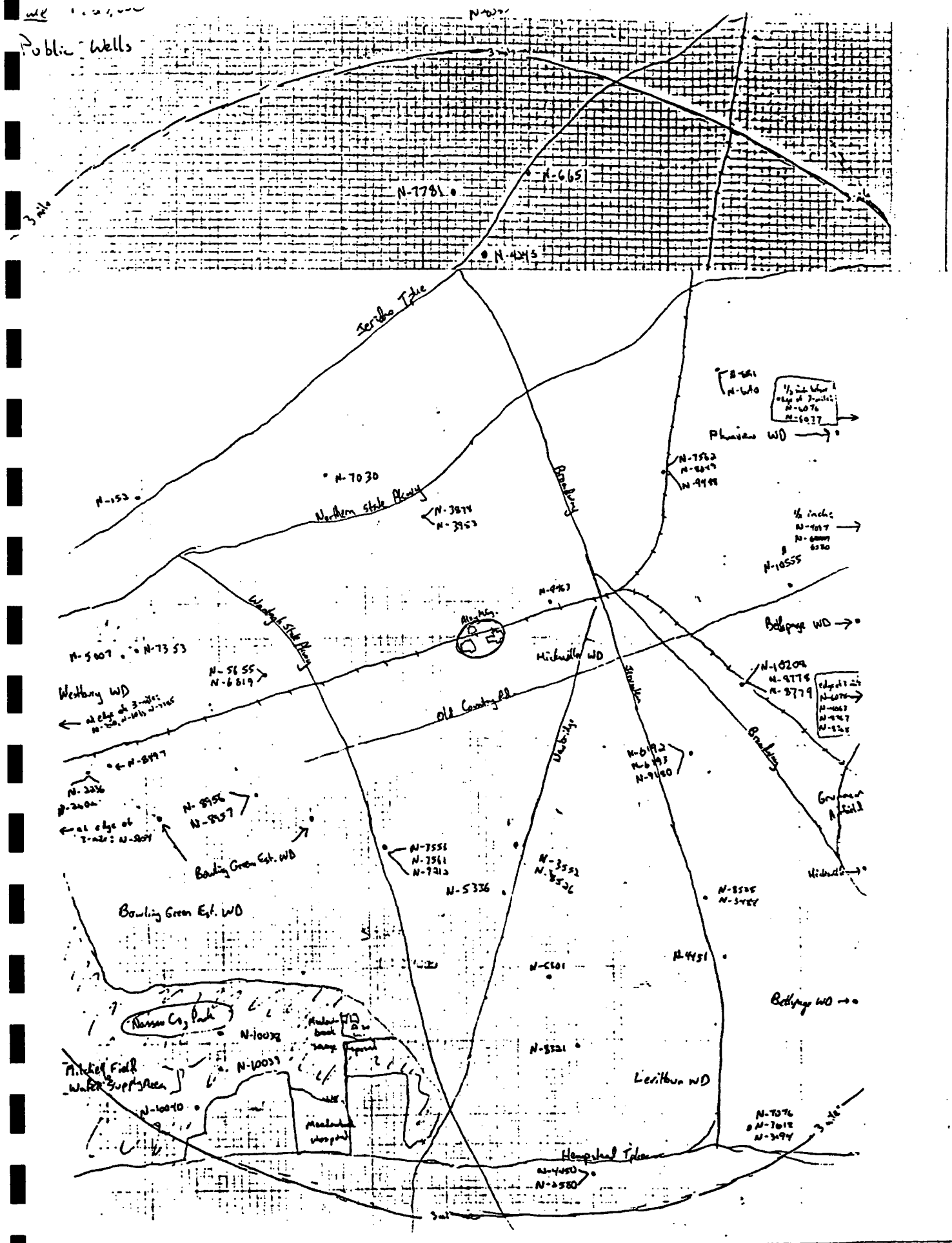
V_s 1000. or W_s _____ V_t 10,000. V_i ~~4.0~~ 2.0 MKM 7/16/87

R-277

Form 1

7/85

Public Wells



D-778

ENVIRONMENTAL HEALTH
Continuation Sheet
Nassau County Health Department

Owner or Agent : ALSY MFG. Co.
Address:

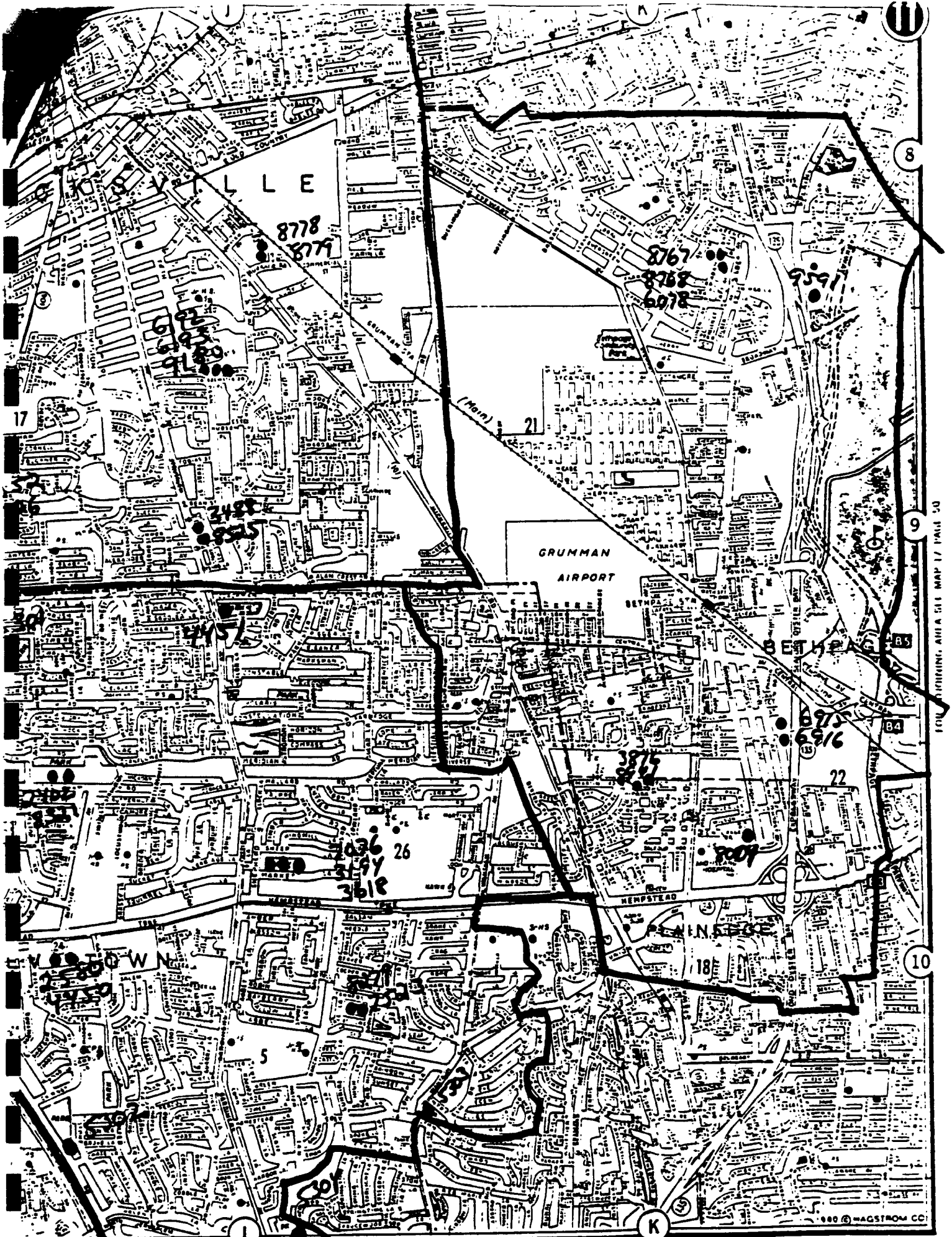
Inspector File SPD Gen'l Co

DATE	COMMENTS		
	DRINKING WATER WELLS WITHIN APPROXIMATE 1 MILE RADIUS OF ALSY		
	WATER DIST.	DIRECTION	WELL NUMBER(S)
	HICKSVILLE	NORTH	N 3953
			N 3878
		EAST	N 9463
		SOUTH	N 7561
			N 9212
		SOUTHEAST	N 5336
	BOWLING GREEN	SOUTHWEST	N 8956
			N 8957
	WESTBURY	WEST	N 5655
			N 6819
			HS

EH 109a 1/68
DH-1198. 9/71

R-779

REFERENCE #10



FOR ADJOINING AREA SEE MAP 12 PAGE 43

R-280

REFERENCE #11

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO:

DATE:

FROM:

COPIES:

SUBJECT: Alsy Manufacturing

REFERENCE: Hicksville Quad - 3-mile radius map

The 3-mile radius map is in the pocket in the back of this report

NUS 443A 58 1182

REFERENCE #12

HEMICAL/SOLVENT WASTE REPORT

or each shipment of wastes, complete the following table with the indicated information. ATTACH COPIES OF MANIFESTS OR RECEIPTS FROM SCAVENGER FOR EACH SHIPMENT MADE.

ate of ipment	Type of Waste (Chemical, oil or solvents)	Amount Shipped	Shipped By			Shipped To (Final Disposal Site For Waste)
			Scavenger Name	Scavenger Address	Scavenger Number	
/9/86	PAINT SOLVENT	385 gal.	TECHTRONIC ECOLOGICAL Co	8 WALWORTH ST., BROOKLYN, NY 11205	NYD0008 24334	BURNED
3/17/86	" "	385 gal.	" "	" " "	"	"
6/12/86	" "	825 gal	" "	" " "	"	"
1/16/86	" "	770 gal.	" "	" " "	"	"
9/16/86	PAINT STRIPPER	110 gal	" "	" " "	"	RECLAIMED
9/30/86	WASTE WATER SLUDGE	2 YARDS	CHEMICAL MANAGEMENT INC.	340 EASTERN PKWY FARMINGDALE, NY 11735	NYD 0006 91949	LAND FILL
9/30/86	PLATING TANK CYNIDE SLUDGE	1 YARD	" " "	" " "	"	NEUTRALIZED + THEN LAND FILL
2/09/86	PAINT SOLVENT	600 gal.	TECHTRONIC ECOLOGICAL CORP	8 WALWORTH ST. BROOKLYN, N.Y. 11205	NYD 0008 24334	BURNED

st any accidental spills that occurred during the reporting period:

te of ill	Amount of Spill	Describe the nature of spill

gnature of Company presentative	Title	Date:
[signature]	Plant Manager	April 30, 1987

01A 1/80

CHEMICAL/SOLVENT WASTE REPORT

Bureau of Land Resources Management

Nassau County Department of Health

Name: ALSY MANUFACTURING INC

Address: 270 DUFFY AVE HICKSVILLE, NY 11801

Permit Number: NYD 052778438

Report Period: 1/1/86 - 12/31/86

List all waste generating chemicals and/or solvents purchased during the reporting period. Indicate for each the purpose or use, trade name or supplier and the quantity purchased.

Name of Chemical or Solvent	Purpose or Use	Trade Name or Supplier	Quantity Purchased
AGATENE LACQUOR #2	CLEAR COATING	AGATE LAQUOR CO. OUR CODE # 4067	1530 gal.
LACQUOR REDUCER	LACQUOR THINNER	AGATE # 6225	410 gal.
LACQUOR THINNER	LACQUOR THINNER	AGATE # 4066	1155 gal.
ETCHING THINNER	PAINT THINNER	FYN PAINT CO # 4403	550 gal.
SPRAY PAINTS	SPRAY COATING FOR METAL PARTS ASSORTED	FYN PAINT CO COLORS	1460 gal
LACQUOR THINNER	LACQUOR THINNER	PRIDE SOLVENTS CO. # 1370	990 gal
ACETONE	WASH THINNER	PRIDE # 1065	605 gal.
XYLOL	PAINT THINNER	PRIDE # 1024	770 gal
Aromatic #150	SLOW PAINT THINNER	PRIDE # 5570	165 gal
111 TRI CHLORETHANE	DEGREASING SOLVENT	PRIDE # 3077	6500 gal
BRASS ANODES	BRASS PLATING	ENEQUIST CHEM. CO. # 4704	750 gal
NICKEL ROUNDS	NICKEL PLATING	ENEQUIST CHEM CO # 4792	551 gal
NICKEL BRIGHTENER	NICKEL PLATING	ENEQUIST CHEM CO # 4052 # 6745	125 gal
WETTING AGENT	PLATING	ENEQUIST CHEMCO # 5016 # 5205	40 gal

CHEMICAL SOLVENT WASTE REPORT

Bureau of Land Resources Management

Nassau County Department of Health

Name: ALSY MANUFACTURING INC

Address: 270 DUFFY AVE HICKSVILLE, N.Y. 11801

Permit Number: NYD 05278 3438

Report Period: 1/1/82 12/31/82

List all waste generating chemicals and/or solvents purchased during the reporting period. Indicate for each the purpose or use, trade name or supplier and the quantity purchased.

Name of Chemical or Solvent	Purpose or Use	Trade Name or Supplier	Quantity Purchased
FERRIC CHLORIDE	WASTE WATER TREATMENT	KURTS + WOLF # 7035	75 lbs.
SOLKA FLOC	" " "	# 6706	50 lbs.
SULPHURIC ACID	" " "	# 4911	4482 lbs
CAUSTIC SODA LIQ.	" " "	# 4796	7650 lbs.
LIQ BLEACH	" " "	# 4798	1980 gal

R-284

704 1/82

continued on reverse

Bureau of Land Resources Management
Nassau County Department of Health

ALSY MANUFACTURING INC

Address
270 DUFFY AVE HICKSVILLE N.Y 11801

Permit No.
NYD 05278
3938

Report Period
1/1/86 12/31/86

List all waste generating chemicals and/or solvents purchased during the reporting period. Indicate for each the purpose or use, trade name or supplier and the quantity purchased.

Name of Chemical or Solvent	Purpose or Use	Trade Name or Supplier	Quantity Purchased
219P COLD STRIPPER	PAINT REMOVER	PACTCUN # 4801	715 gal
212 COLD STRIPPER	PAINT REMOVER	PACTCUN # 5266	330 gal
POLYELECTROTYPE	SOAP CLEANER	PACTCUN # 7229	385 gal
359-T CLEANER	" "	PACTCUN # 4600	450 gal
#348 SOAK CLEANER	" "	PACTCUN # 4877	1800 gal
BRASS ADDITIVE	BRASS PLATING	JELCO # 4875	310 gal
MURIATIC ACID	PLATING	KURTS + WOLF # 4787	800 lbs
AQUA AMMONIA	PLATING	KURTS + WOLF #4783	2800 lbs.
ZINC CYANIDE	PLATING	KURTS + WOLF # 4785	600 lbs.
COPPER CYNIDE	PLATING	KURTS + WOLF # 4784	500 lbs.
SODIUM CYNIDE	PLATING	KURTS + WOLF # 4782	1400 lbs.
BUFFING COMPOUNDS	POLISHING METAL	MATCHLESS-UNITED	77,700 lbs.
56-1184 SPRAY GLUE	GLUEING LAMP SHADES	UNITED RESINS #1507	7,000 lbs.
LBS WHITE GLUE	" " "	UNITED RESINS #1452	5000 lbs.
32/13 MES VEG GLUE	" " "	UNITED RESINS #1168	14,000 lbs

R-285

H 704 1/82

continued on reverse

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

FOR OFFICE USE ONLY	
Date Application Received	Facility
Reviewed By	Date Revie
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No. of Mont

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction	Internal Protection	External Protection	Piping	Type	Material Currently or Last Stored: NCDH Number	Material Currently or Last Stored: Name	Status	Tank Installation Date (Month/yr)	Leak Detection Sys.	Secondary Containment	Product Gauge	Dispenser Method	Fill	Additional Information for Abandoned Tanks: Date Last Used (Month/yr)	Condi-
	39	1	150	1	1	4	8	2		Stores and settles metal hydroxide slurry		0000	5	1	2	1	1		
	40	1	75	4	2	4	8	2		Catches overflow from settling tank - Water on for sewer		0000	5	1	1	1	2		
	41	1	75	1	2	4	1	1		Water displacing oil petroleum product		9/86	5	1	1	3	2		
	42	1	75	1	2	4	1	1		" " "		9/86	5	1	1	3	2		

EH 858 4/86

Date Submitted 3/27/87

Page 4 of 4

☐ D.P.

~~COUNTY~~ DEPARTMENT OF HEALTH
~~APPLICATION~~ FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

Date Application Received

Reviewed By

Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE HICKSVILLE, N.Y. 11801

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area

Area No. 52 (Plating Shop)

Location: ☒ Indoors ☐ Outdoors

Bulk Storage Max. Quantity Stored:

Container Storage Max. No. 25 Max. Vol. 700 lb + 100

Secondary Containment: ☐ Impervious Berm/Dike ☐ Impervious Floor/Pad ☐ Roof ☐ Walls ☒ Floor Drain & Storage Tank ☐ None ☐ Other (Specify):

Construction Material of Dike & Pad (Check all that Apply) ☐ Concrete ☐ Steel ☐ Other (Specify):

Security ☐ Yes ☒ No

Type	NCDH Number	Material Name	Physical State	Amount Stored: Average Quantity	Amount Stored: Units	Storage Method: Average Number	Storage Method: Type
1		Brass plating solution additive	1	20	1	4	1
1		Nickle plating solution additive	1	20	1	4	1
1		Sulphuric Acid	1	6	1	6	1
1		Sodium Cyanide	2	200	3	1	
		Zinc Cyanide	2	50	3	1	
1		Cooper Cyanide	2	[illegible]	3		
1		Soap cleaner	1	25	1	1	1
		Soap cleaner (powder)	2	100	3	1	
		Ammonium hydroxide	2	600	3	1	1

COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

Date Application Received
Reviewed By
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE HICKSVILLE, N.Y. 11801

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area — Area No. S1 (Waste Storage)

Location: ☒ Indoors ☐ Outdoors — Bulk Storage Max. Quantity Stored: — Container Storage Max. No. 20 DRUMS Max. Vol. 1000 gallons

Secondary Containment: ☒ Impervious Berm/Dike ☐ Impervious Floor/Pad ☐ Roof ☐ Walls ☐ Floor Drain & Storage Tank ☐ None ☐ Other (Specify)

Construction Material Dike & Pad (Check all that Apply): ☒ Concrete ☐ Steel ☒ Other (Specify): FIBER GLASS COVERED CONCRETE — Security: ☐ Yes ☒ No

NCDH Number	Material Name	Physical State	Amount Stored: Average Quantity	Amount Stored: Units	Storage Method: Average Number	Storage Method: Units
	Waste water treatment metal hydroxide sludge	4	1	4	5	1
	Waste paint thinner (Xylene)	1	100	1	2	1
	Waste lagvor thinner (Mixed alchols + Aromatic hydrocarbons)	1	100	1	2	1
	Waste paint stripper (Methylene chloride	1	50	1	1	1
	Waste mixed solids (sump sludge)	1	50	1	1	1

[redacted] 3/22/82 [redacted] Page 1 of 5 [redacted]

[illegible] COUNTY DEPARTMENT OF HEALTH
[illegible]LICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
[illegible]RM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility [illegible]
Reviewed By	Date Revi[illegible]
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No.of Mont[illegible]

Facility Name: ALSY MANUFACTURING Co. INC.

Facility Address: 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

[illegible]ction: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area — Area No. 53 (Paint Storage)

[illegible]ocation: ☒ Indoors ☐ Outdoors — Bulk Storage Max.Quantity Stored: — Container Storage Max.No. 225 Max.Vol. 1800 gallons

Secondary Containment: ☐ Impervious Berm/Dike ☐ Impervious Floor/Pad ☐ Roof ☒ Walls ☐ Floor Drain & Storage Tank ☐ None ☐ Other (Specify):

[illegible]onstruction Material [illegible]f Dike & Pad (Check all that Apply) ☐ Concrete ☐ Steel ☐ Other (Specify): — Security ☒ Yes ☐ No

[illegible]pe	NCDH Number	Material Name	Physical State	Amount Stored: Average Quantity	Amount Stored: Units	Storage Method: Average Number	Storage Method: Ty[illegible]
1		BAKING ENAMAL PAINT (VARIOUS colors)	1	750	1	150	[illegible]
1		ETCHING PAINT THINNER	1	25	1	1	
1		ACETONE	1	25	1	1	
1		409 LAQUOR THINNER	1	55	1	1	
1		SPECIAL LAQUOR THINNER	1	25	1	1	
1		150 PETROLEUM NAPTHA	1	55	1	1	
1		XYLENE	1	25	1	1	
1		CLEAR LAQUOR	1	250	1	50	[illegible]

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility
Reviewed By	Date Revi
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No.of Mont

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area | Area No. 54 SHADE DEPT

Location: ☒ Indoors ☐ Outdoors | Bulk Storage Max.Quantity Stored: | Container Storage Max.No. 2 Max.Vol. 110 gal/c

Secondary Containment: ☐ Impervious Berm/Dike ☐ Impervious Floor/Pad ☐ Roof ☐ Walls ☐ Floor Drain & Storage Tank ☒ None ☐ Other (Specify):

Construction Material of Dike & Pad (Check all that Apply) ☐ Concrete ☐ Steel ☐ Other (Specify): | Security ☐ Yes ☒ No

ype	NCDH Number	Material Name	Physical State	Amount Stored: Average Quantity	Amount Stored: Units	Storage Method: Average Number	Ty
1		WATER BASE ADHESIVE	1	55	1	1	

ASSAU COUNTY DEPARTMENT OF HEALTH
PPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
RM 2 - TANK REGISTRATION
E INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility I
Reviewed By	Date Revie
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No. of Mont

cility Name ALSY MANUFACTURING CO. INC.

cility Address 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Tank Number	Location	Design Capacity (Gallons)	Material of Construction	Internal Protection	External Protection	Piping	Type	NCDH Number	Material Currently or Last Stored: Name	Status	Tank Installation Date (Month/yr)	Leak Detection	Secondary Containment	Product Gauge	Dispenser Method	Fill	Additional Information for Abandoned Tanks: Date Last Used (Month/yr)	Condi-
27	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
28	1	600	1	2	4	8	1		Soap solution		0000	5	8	2	3	1		
29	1	600	1	2	4	8	1		Soap solution		0000	5	8	2	3	1		
30	1	75	4	2	4	8	2		Rinse water slightly acid (PH-6)		0000	5	8	1	1	2		
31	1	75	4	2	4	8	2		Rinse water for brass (PH-9)		0000	5	8	1	1	2		
32	1	350	4	2	4	8	2		Brass rinse, Sodium hydroxide Sodium hypo chlorite (PH 10.8-11.2)		0000	5	1	1	3	1		
33	1	350	4	2	4	8	2		Acid rinse, cyanate, H_2SO_4 ferric chloride (PH 3.5-8.5)		0000	5	1	1	3	1		
34	1	260	4	2	4	8	2		Solution of nickle and copper hydroxides (PH 9.5)		0000	5	1	1	3	2		
35	1	260	4	2	4	8	2		Flocing Agent, copper and nickle hydroxides		0000	5	1	1	3	2		
36	1	150	4	2	4	8	2		Nickle and copper hydroxide in suspension		0000	5	1	1	1	2		
37	1	175	1	1	4	8	2		Separates suspended hydroxides from clear liquid		0000	5	1	1	1	1		
38	1	75	4	2	4	8	2		Water ready for discharge to sewer (PH-7)		0000	5	1	1	1	2		

☐ D.P.

Submitted 3/27/87

COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility
Reviewed By	Date Revi
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No. of Mon

Facility Name ALSY MANUFACTURING CO. INC.

Facility Address 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction	Internal Protection	External Protection	Piping	Type	Material Currently or Last Stored: NCDH Number	Name	Status	Tank Installation Date (Month/yr)	Leak Detection	Secondary Containment	Product Gauge	Dispenser Method	Fill	Additional Information for Abandoned Tanks: Date Last Used (Month/yr)	Con
	14	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	15	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	16	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	17	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	18	1	1200	1	2	4	8	1		Brass plating solution		0000	5	8	2	3	1		
	19	1	1200	1	2	4	8	1		Brass plating solution		0000	5	8	2	3	1		
	20	1	1200	1	2	4	8	1		Brass plating solution		0000	5	8	2	3	1		
	21	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	22	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	23	1	600	4	2	4	8	1		Hydrochloric Acid 20%		0000	5	8	2	3	1		
	24	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	25	1	600	1	2	4	8	2		Rinse water		0000	5	8	2	3	1		
	26	1	600	1	2	4	8	1		Soap solution		0000	5	8	2	3	1		

EH 858 4/86

Date Submitted 3/27/87

☐ D.P.

COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 2 - TANK REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility
Reviewed By	Date Review
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No. of Month

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Action	Tank Number	Location	Design Capacity (Gallons)	Material of Construction	Internal Protection	External Protection	Piping	Type	Material Currently or Last Stored: NCDH Number	Material Currently or Last Stored: Name	Status	Tank Installation Date (Month/yr)	Leak Detection Sys.	Secondary Containment	Product Gauge	Dispenser Method	Fill	Additional Information for Abandoned Tanks: Date Last Used (Month/yr)	Condi-
	S 1	4	3500	1	9	9	9	1		FUEL OIL	1	0000	5	5	2	2	1		
	S 2	4	1000	1	9	9	9	1		FUEL OIL	1	0000	5	5	1	2	1		
	S 3	1	275	1	9	4	6	1		111 TRICHLORITHANE	1	0000	5	5	1	3	1		
	4	1	600	1	2	4	8	2		Rinse Water	1	0000	5	8	2	3	1		
	5	1	600	1	2	4	8	2		Rinse Water	1	0000	5	8	2	3	1		
	6	1	600	1	2	4	8	2		Rinse Water	1	0000	5	8	2	3	1		
	7	1	600	1	2	4	8	1		Brass plating solution	1	0000	5	8	2	3	1		
	8	1	600	1	2	4	8	2		Rinse Water	1	0000	5	8	2	3	1		
	9	1	600	1	2	4	8	2		Rinse Water	1	0000	5	8	2	3	1		
	10	1	600	2	2	4	8	1		Dilute nickle plating sol.	1	0000	5	8	2	3	1		
	11	1	600	2	2	4	8	1		Nickle plating solution	1	0000	5	8	2	3	1		
	12	1	600	2	2	4	8	1		Nickle plating solution	1	0000	5	8	2	3	1		
	13	1	425	1	1	4	8	2		Rinse water	1	0000	5	8	2	3	1		

EH 858 4/86

Date Submitted 3/27/87

☐ D.P.

NASSAU COUNTY DEPARTMENT OF HEALTH
APPLICATION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT
FORM 3 - BULK AND CONTAINER STORAGE REGISTRATION
SEE INSTRUCTION SHEETS

For Office Use Only	
Date Application Received	Facility
Reviewed By	Date Revi
Action: ☐ Not Req'd. ☐ Approved ☐ Disapproved	No.of Mont

Facility Name: ALSY MANUFACTURING CO. INC.

Facility Address: 270 DUFFY AVE. HICKSVILLE, N.Y. 11801

Action: ☒ Register Existing Area ☐ Add Area ☐ Remove Area ☐ Modify Area — Area No. 55 WASTE WATER TREATMEN CHEM

Location: ☒ Indoors ☐ Outdoors — Bulk Storage Max.Quantity Stored: — Container Storage Max.No. 7 Max.Vol. 320 gall

Secondary Containment: ☒ Impervious Berm/Dike ☐ Impervious Floor/Pad ☐ Roof ☐ Walls ☐ Floor Drain & Storage Tank ☐ None ☐ Other (Specify):

Construction Material of Dike & Pad (Check all that Apply) ☒ Concrete ☐ Steel ☒ Other (Specify): FIBERGLASS — Security ☐ Yes ☒ No

ype	NCDH Number	Material Name	Physical State	Amount Stored: Average Quantity	Amount Stored: Units	Storage Method: Average Number	Storage Method: Ty
1		Sodium hypochlorite	1	75	1	2	
1		Sodium hydroxide	1	25	1	1	1
1		Sulphuric Acid	1	15	1	1	
		Floculite 551 (FLOCING AGENT)	1	25	1	1	
1		FERRIC chloride		15	1	1	

THOMAS S. GULOTTA
COUNTY EXECUTIVE

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
MINEOLA, NEW YORK 11501

SEWER PERMIT
May 15, 1987
to
May 15 1990

April 16, 1987

Mr. A. Gindel
President
Alsy Manufacturing, Inc.
270 Duffy Avenue
Hicksville, NY 11801

Re: Industrial Discharge Permit No. 21

Dear Mr. Gindel:

Enclosed herewith, please find the Industrial Discharge Permit issued on April 16, 1987 for your company and certification which should be signed and returned to us.

Thank you for your cooperation.

Very truly yours,

John J. Pascucci, PE
Chief Sanitary Engineer

JJP:IA:sm
encl.

cc: James A. Oliva, PE
Maurice J. Osman

R-295

NOTE: Please read carefully since only one certification should be signed.

CERTIFICATION

Based on my inquiry of the person directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report.

I certify also that this facility is implementing it's "Emergency Response Contingency Plan" and will notify the County of any changes made in our use of toxic organics.

Signature: Robert Gentile
Name of certifying official: R ROBERT GENTILE
Title: Vice President-Finance
Date: 5/18/87

CERTIFICATION

I certify that, to the best of my knowledge, the regulated toxic organics are not used at this facility and not expected to be discharged into the Public Sewer or underground.

Signature:_____
Name of certifying official:_____
Title:_____
Date:_____

POTW APPROVAL OF PLAN:

Nassau County Department of Public Works hereby approves the Spill Prevention Control and Solvent Management Plan as submitted.

Copies of this plan must be maintained at the facility and submitted to all local governmental units that might be called upon in the event of an emergency.

_____
John J. Pascucci, P.E., Chief Sanitary Engineer

Date_____, 19__

R-296

NASSAU COUNTY
DEPARTMENT OF PUBLIC WORKS

Division of Sanitation and Water Supply
Industrial Pretreatment Program
Cedar Creek Plant, P.O. Box 88, Wantagh, NY 11793

INDUSTRIAL DISCHARGE PERMIT NO. 21
This Permit Is Not Transferable

Effective Date: May 15, 1987

Fee: $20.00

Expires: May 15, 1990

Amendment to Sewer Connection Permit:
No. S113436

Ludwig C. Hasl
Commissioner of Public Works
Ludwig C. Hasl, P.E.

In compliance with the requirements of the Federal Water Pollution Control Act (also known as the Clean Water Act as amended), Nassau County Ordinance No. 266-1985, categorical and local discharge limitations, in accordance with your application completed on 86/06/26 and other conditions set forth herein:

Company: Alsy Manufacturing, Inc.

IPP ID#: 33109903

Description: Lamps & lampshades (electroplating, machining, assembly)

Classified by SIC Codes: 3645 3471

Subject to categorical pretreatment standards: Y [X] N [ ]

Name of standards: Electroplating (over 10,000 gpd)

Effective date of compliance: 04-27-84/07-15-86 (TTO)

is permitted to discharge wastewater from its facilities located at

270 Duffy Avenue, Hicksville NY 11801

(Section, Block, Lot: 1100600148/0191)

into the sewers tributary to Cedar Creek Water Pollution Control Plant.

R-297

The Applicant agrees to:

1. Discharge wastewater only in accordance with the terms and conditions of this Permit and comply with all the requirements of Nassau County Ordinance No. 266-1985 and appropriate categorical limitations (more stringent limitations shall apply).

2. Provide complete cooperation to the County, its employees, agents and representatives allowing reasonable access to the plant and pretreatment facilities for all inspections including, but not limited to, measurement and sampling of wastewater.

3. Maintain all records relating to the wastewater discharge flow rate, sampling results and methods of analyses for a minimum of three (3) years.

4. Provide the Department of Public Works as far in advance as is reasonably practicable all information relating to any actual or proposed material change in:

a) Volume of discharge (gpd)
b) Processes or chemicals used at the facility
c) Pretreatment facilities
d) Average daily rate of production
e) Content of discharge
f) New sewer connection
g) Expansion or new construction
h) Termination of discharge

5. Submit a "Semi-annual Compliance Report" twice a year. Forms along with analyses results of industrial wastewater discharge will be furnished to the Applicant by the County and must be returned by certified mail no later than one month from their receipt.

In those instances when the Applicant's facility exceeded its discharge limitations at least twice consecutively during the past six months, a " Schedule of Compliance" must also be submitted.

Any delay in the submission of these reports in excess of forty-five (45) days from the date of receipt, or self-monitoring data if required, or implementing the "Schedule of Compliance", shall be deemed a violation of this Permit and the Applicant will be subject to a fine and/or civil action at the discretion of the Commissioner.

6. Pay for <u>each</u> monitoring inspection and sampling procedure following notification of violation of the discharge limitations contained herein. The fee for such inspection and/or procedure shall vary in amount from a minimum of not less than One Hundred Dollars ($100) to a maximum of not more than Five Hundred Dollars ($500) depending upon the continued nature of the violation.

R-298

7. Operate the pretreatment facilities in an efficient manner at all times. By-passes of pretreatment facilities are strictly prohibited.

Applicant shall provide appropriate storage facilities to prevent an accidental discharge of prohibited materials or slug loading.

Notify the Department of Public Works orally within twenty-four (24) hours of any accidental discharge of prohibited materials or slug loading. All of the Applicant's employees, agents, and representatives shall be notified of the foregoing emergency notification procedure.

This notice must be followed immediately thereafter with a detailed written report of each such incident including a description of its causes and duration as well as any preventive measures undertaken. Failure to notify DPW about any such incident in the proper manner within five working days will be considered as a violation of this Permit.

This notification shall not relieve the Applicant of any expense, loss, damage or other liability incurred as a result of damage to any person, collection system and/or processes at the POTW.

8. Any employee, agent or representative of the Applicant who knowingly or negligently makes a false statement, or renders inaccurate any monitoring device shall be subject to a fine of not less than Three Hundred Dollars ($300) nor more than One Thousand Dollars ($1,000) per day and/or imprisonment for a period of not more than six months for each such violation.

The imposition of a penalty pursuant to the foregoing paragraphs shall result in the probation of this Permit. Accordingly, the Applicant shall immediately cease violation and undertake whatever corrective measures are warranted.

9. In the event the Applicant, its employees, agents or representatives continue to exceed its discharge limitations during the probationary period, or is unwilling to comply with its Schedule of Compliance, the County Attorney will immediately commence appropriate legal action to terminate the Applicant's authorization to dispose of industrial wastewater into the Public Sewer system.

10. The Applicant shall apply for the Discharge Permit reissuance a minimum of 180 days prior to the expiration date of the existing Permit. The terms and conditions of the Permit may be subject to modification by the County during the term of the Permit. The Applicant shall be informed of any proposed changes at least 30 days prior to the effective date of change.

R-299

11. Additional requirements:

The Applicant shall install, operate and maintain in proper working order at all times the following equipment necessary to monitor the industrial wastewater discharged to the Public Sewer:

Testing Chamber required:	Y [X]	N [ ]
Locking Device required:	Y [X]	N [ ]
Flowmeter required:	Y [X]	N [ ]

Self-Monitoring required: Y [X] N [ ]
Frequency of Self-Monitoring:
Monthly [ ] Quarterly [X] Semiannually [ ]

Draft Permit approved by the Chief Sanitary Engineer on behalf of the Nassau County Industrial Pretreatment Program:

John J. Pascucci, P.E. — 4/1/87 (Date)

Acknowledged by the Applicant Representative

_____ — 4/1/87

Title: _____ (Date)

Final Permit approved by the Deputy Commissioner of Public Works: _____ — 4/9/87

John F. Caruso (Date)

Attachments to this Permit: 1. Prohibited wastes
2. Discharge limitations (page 8)

R-300

Attachment No. 1

PROHIBITED WASTES

No person shall discharge, deposit, cause or allow to be deposited or discharged into the Public Sewer or the POTW any waste which causes or contains the following:

1.a EXPLOSIVE WASTES:

Wastes which create a fire or explosive hazard to the POTW, collection system or the operation of the system. Prohibited materials include, but are not limited to, gasoline, fuel oil, kerosene, naptha, benzene, toluene, alcohols, peroxides, carbides, xylene, and ethers.

1.b CORROSIVE WASTES:

Wastes which cause corrosion or deterioration of the equipment of the Treatment Plant or collection system, such as sulfides and concentrated acids. All wastes shall have a pH not less than 5.5 or greater than 9.5.

1.c SOLIDS AND VISCOUS SUBSTANCES:

Solids or viscous wastes in amounts which could cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the POTW. Prohibited materials include, but are not limited to, grease, wax, uncomminuted garbage, sludge of any kind, mud, ashes, cinders, sand, glass grinding, polishing waste, stone or marble dust, wood sawdust, plastics, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, or metal scrap.

1.d EXTREMELY HAZARDOUS WASTES:

Those wastes designated by the USEPA as sufficiently toxic that they shall not be discharged to a sanitary sewer in any concentration.

1.e RADIOACTIVE WASTES:

Radioactive wastes or isotopes of such half life of concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which cause hazards to the personnel operating the sewerage system or POTW.

R-301

1.f NOXIOUS MATERIALS:

Noxious or malodorous compounds which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or may be sufficient to prevent entry into a sewer for its maintenance or repair.

1.g EXCESSIVE DISCOLORATION:

Such as, but not limited to, dye wastes, tanning solutions, etc.

1.h HEAT:

No discharge having temperature higher than 150 degrees Fahrenheit (65 degrees Celsius) is allowed.

1.i EXTREME VARIATIONS:

Industrial wastes discharged in a slug of such volume or strength that may cause a treatment process upset or loss of the POTW efficiency.

1.j UNPOLLUTED WASTES:

Any unpolluted water including, but not limited to, stormwater, surface and groundwater, roof runoff, subsurface drainage, uncontaminated cooling water, or unpolluted industrial process water which will increase the hydraulic load on the POTW.

1.k DILUTION WATER:

No water shall be added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.

R-302

Permit No. 21
Attachment No. 2

DISCHARGED LIMITATIONS BASED ON CATEGORICAL AND LOCAL LIMITS

PARAMETERS	MAXIMUM CONCENTRATION OF INDUSTRIAL WASTE DISCHARGE TO THE PUBLIC SEWER mg/l	CATEGORICAL STANDARD APPLIED AT THE POINT OF DISCHARGE FROM THE REGULATED OPERATION	
		DAILY MAXIMUM mg/l	MAXIMUM 4 DAY AVERAGE mg/l
Oil/Grease (O/G)	100		
pH - maximum	9.5		
pH - minimum	5.5		
Antimony (Sb)	0.18		
Arsenic (As)	0.1		
Barium (Ba)	2.0		
Cadmium (Cd)	0.2	1.2	0.7
Chromium-total(Cr,T)	2.0	7.0	4.0
Chromium-hex (CR+6)	0.1		
Copper (Cu)	2.0	4.5	2.7
Cyanide (Cn, Total)	1.0	1.9	1.0
Fluoride (Fl)	10.0		
Iron (Fe)	4.0		
Lead (Pb)	0.1	0.6	0.4
Manganese (Mn)	2.0		
Mercury (Hg)	0.1		
Nickel (Ni)	2.0	4.1	2.6
Selenium (Se)	0.1		
Silver (Ag)	0.1		
Zinc (Zn)	5.0	4.2	2.6
Phenols			
Total Toxic Organics (TTO)		2.13	-

Note: 1. The term "TTO" shall mean the sum of concentrations for each of the compounds regulated for the industry found in the discharge of your facility at a concentration greater than 0.01 mg/l (10 ppb).

If no toxic organics are used in the processes and expected to be discharged in the Public Sewer, it should be certified in the Spill Prevention and Solvent Management Plan and no TTO monitoring is required in this case.

2. Categorical limit for Cyanide applies to Cyanide amenable to chlorination.

R-303

PERMIT NO. 21

RESULTS OF SAMPLING AND ANALYSES FOR PAST_12_MONTHS

Date	Limit mg/l	01/07	01/14	02/11	02/17	03/04	03/27
Source	C/I	I	I	I	I	I	I
BOD							
COD							
TDS							
SS							
pH max	9.5						
pH act		7.07	6.04	6.34	6.53	6.76	6.88
pH min	5.5						
O/G	100						
Pb	0.1						
Cn	1.0	0.31	0.13	1.35	1.22	2.16	0.10
Cd	0.2						
Ag	0.1						
Cr+6	0.1						
Cr,T	2.0						
Ni	2.0	4.95	0.17	1.88	6.02	2.48	0.40
Zn	5.0	0.08	1.27	0.34	0.31	0.33	0.49
Cu	2.0	3.36	3.67	1.24	1.95	1.95	2.60
Fe	4.0						
Fl	10.0						
Se	0.1						
As	0.1						
Sn							
NH3-N	20.0	8.08	10.43	4.14	10.89	19.03	20.79
Phenols							
VOH							
BTX							
TTO							
Misc.							

Notes:

1. "VOH" means the sum of measurable amounts of halogenated, or volatile, organics in mg/l.

2. "BTX" means the sum of measurable amounts of aromatic hydrocarbons (Benzene, Toluene, Xylene, Naphtalene, etc.) in mg/l.

3. "TTO" means the sum of concentrations for each of the compounds regulated for the industry found in the discharge of your facility at a concentration greater than 0.01 mg/l (10 ppb).

R-304

PERMIT NO. 21

RESULTS OF SAMPLING AND ANALYSES FOR PAST_12_MONTHS

Date	Limit mg/l	04/07	04/15	04/22	06/26	07/23	10/02
Source	C/I	C	I	I	I	C	C
BOD							
COD							
TDS							
SS							
pH max	9.5						
pH act		5.7	5.88	6.16	6.6	6.5	7.2
pH min	5.5						
O/G	100						
Pb	0.1				0.03	0.0	0.00
Cn	1.0	0.1	0.15	0.04	0.22	0.0	0.0
Cd	0.2				<0.003	0.0	
Ag	0.1				<0.006		
Cr+6	0.1					<0.01	0.01
Cr,T	2.0				0.02	0.0	0.01
Ni	2.0	0.2	0.42	0.38	0.08	0.0	0.07
Zn	5.0	0.7	0.85	0.50	0.19	0.0	0.14
Cu	2.0	2.4	4.53	2.47	1.11	0.1	0.42
Fe	4.0						
Fl	10.0						
Se	0.1						
As	0.1						
Sn							
NH3-N	20.0		5.90	17.34	27.92		
Phenols							
VOH							0.08
BTX							0.01
TTO							0.09
Misc.							

Notes:

1. "VOH" means the sum of measurable amounts of halogenated, or volatile, organics in mg/l.

2. "BTX" means the sum of measurable amounts of aromatic hydrocarbons (Benzene, Toluene, Xylene, Naphtalene, etc.) in mg/l.

3. "TTO" means the sum of concentrations for each of the compounds regulated for the industry found in the discharge of your facility at a concentration greater than 0.01 mg/l (10 ppb).

R-305

REFERENCE #13

NUS CORPORATION 02-8705.10 TELECON NOTE

CONTROL NO:	DATE: 5/26/87	TIME: 0945

DISTRIBUTION: 02-8705-10 Alsy Manufacturing

BETWEEN: Bill O'Brien	OF: NYDEC Stoneybrook	PHONE: (516) 751-7900

AND: John Ducar (NUS)

DISCUSSION: I spoke to Mr. O'Brien about his inspection of the site on 8/1/84. He told me the plant is a manufacturer of lamps and that it had a past history of very poor housekeeping practices. He said the treatment system for the wastes was almost non existent at the time of the inspection. There was evidence of discharge directly to the ground of solvent and heavy metal wastes. Samples of the cesspools showed very high levels of solvents and heavy metals. There are 3 monitoring wells on site. He said in 1986 Alsy got a permit to discharge into the sanitary sewer system. He said that public wells downgradient of the site have shown possible contamination that may be ~~to~~ attributed to the plant. He said I should talk to Richard Torrey of the Albany DEC (518)-457-5637 for more information on the site. The whole area ~~is on~~ uses groundwater as a drinking source. R-306

ACTION ITEMS:

02-8705.10

NUS CORPORATION AND SUBSIDIARIES — **TELECON NOTE**

CONTROL NO:	DATE: 6/2/87	TIME: 1630

DISTRIBUTION: 02-8705-10
Alsy Manufacturing

BETWEEN: Bill O'Brien	OF: Stonybrook DEC	PHONE: (516) 751-7900

AND: John Ducar

DISCUSSION:
Mr. O'Brien called me and gave me some more information on the site. He said there are 3 wells on site, 4" PVC casing. The wells were installed incorrectly according to Dick Torrey of the NYSDEC in Albany, he said. There are no real upgradient or downgradient wells on the site, they are situated near the cesspools. He also told me the original owner of the property in the 1950's + 60's was probably a heavy machinery manufacturer, but no one is really sure. He said the site has one very large interconnected building. He told me the stained soil, where the drums used to be stored, has been paved over. The topography of the site is relatively flat. The 3 old cesspools are no longer in use, but one sanitary cesspool on site is used for containing cycle 2 solvents.

ACTION ITEMS:

R-307

NUS 067 REVISED 0685

REFERENCE #14

NUS CORPORATION AND SUBSIDIARIES

TELECON NOTE

CONTROL NO:	DATE: 12-1-87	TIME: 0930

DISTRIBUTION: Alsy Manufacturing 02-8705-10

BETWEEN: Don Myott	OF: Nassau County Health Dept. Bureau of Public Water	PHONE: (516) 535-3324

AND: John Ducar

DISCUSSION:

I spoke with Mr. Myott concerning the depths of the two aquifers in the Hicksville Area.

He told me the Upper Glacial Aquifer is at a depth of 100-150 ft. below the surface and the Magothy Aquifer is ~~200~~ 250 - 300 ft below the surface.

ACTION ITEMS:

R-308

NUS 087 REVISED 0685

REFERENCE #15

GO

Data List of Dataset: NYT7 Number of Records = 6

REC #	POP	HOUSE	DISTANCE	SECTOR
1	1400	410	0.400000	1
2	1022	304	0.810000	1
3	11189	3456	1.60000	1
4	59660	18127	3.20000	1
5	64688	19560	4.80000	1
6	91024	26183	6.40000	1

Press RETURN to page forward, enter Pnnn to position the starting record of the next page, enter BACK to reselect variables, or enter END to stop
?

R-309

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO:

DATE: May 10, 1988

FROM: John A. Ducar

COPIES:

SUBJECT: U.S. Dept. of Interior National Register for National Natural Landmarks for New York, 1987.

~~REFERENCE:~~

A copy of this information was not available at the time of the report assembly.

R-310

NUS 443A 58 1182

REFERENCE #17

FRANCIS T. PURCELL
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

In reply to your inquiry dated August 28, 1987, please refer to the item checked below.

If additional information is required, please call this office and arrange for an appointment with the investigator.

XXX AN INVESTIGATION WAS CONDUCTED BY THIS OFFICE AS FOLLOWS:

Inv. No. 796-85 Date of Alarm 10-10-85 Time of Alarm 1102 hours

Address 270 DUFFY AVENUE, HICKSVILLE

Classification ELECTRICAL

Investigator J.LYNCH

_____ LOCAL FIRE DEPARTMENT REPORT FILED WITH THIS OFFICE INDICATES:

Fire at _____

Date of Alarm _____ Time of Alarm _____

Cause _____

_____ NO REPORT AT THIS OFFICE OF A FIRE AT _____

_____ INSUFFICIENT INFORMATION.

PLEASE NOTE: FOR FUTURE CORRESPONDENCE, PLEASE ENCLOSE A STAMPED, SELF-ADDRESSED ENVELOPE.

Joseph G. Boslet, Jr.
Fire Marshal

00378I
9/86

R-311

FRANCIS T. PURCELL
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

In reply to your inquiry dated August 28, 1997, please refer to the item checked below.

If additional information is required, please call this office and arrange for an appointment with the investigator.

XXX AN INVESTIGATION WAS CONDUCTED BY THIS OFFICE AS FOLLOWS:

Inv. No. 833-31 Date of Alarm 8-30-91 Time of Alarm 2222 hours

Address 270 DUFFY AVENUE, HICKSVILLE - DUMPSTER & TRAILER ON PROPERTY

Classification SUSPICIOUS

Investigator R. REUSMANN

_____ LOCAL FIRE DEPARTMENT REPORT FILED WITH THIS OFFICE INDICATES:

Fire at _____

Date of Alarm _____ Time of Alarm _____

Cause _____

_____ NO REPORT AT THIS OFFICE OF A FIRE AT _____

_____

_____ INSUFFICIENT INFORMATION.

PLEASE NOTE: FOR FUTURE CORRESPONDENCE, PLEASE ENCLOSE A STAMPED, SELF-ADDRESSED ENVELOPE.

Joseph G. Boslet, Jr.
Fire Marshal

00378I
9/86

R-312

FRANCIS T. PURCELL
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

In reply to your inquiry dated August 28, 1997, please refer to the item checked below.

If additional information is required, please call this office and arrange for an appointment with the investigator.

XXX AN INVESTIGATION WAS CONDUCTED BY THIS OFFICE AS FOLLOWS:

Inv. No. 847-84 Date of Alarm 10-29-84 Time of Alarm 2030 hours

Address 270 DUFFY AVENUE, HICKSVILLE

Classification SPONTANEOUS IGNITION

Investigator G.CARONIA

_____ LOCAL FIRE DEPARTMENT REPORT FILED WITH THIS OFFICE INDICATES:

Fire at _____

Date of Alarm _____ Time of Alarm _____

Cause _____

_____ NO REPORT AT THIS OFFICE OF A FIRE AT _____

_____

_____ INSUFFICIENT INFORMATION.

PLEASE NOTE: FOR FUTURE CORRESPONDENCE, PLEASE ENCLOSE A STAMPED, SELF-ADDRESSED ENVELOPE.

Joseph G. Boslet, Jr.
Fire Marshal

00378I
9/86

R - 313

FRANCIS T. PURCELL
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

In reply to your inquiry dated August 28, 1987, please refer to the item checked below.

If additional information is required, please call this office and arrange for an appointment with the investigator.

XXX AN INVESTIGATION WAS CONDUCTED BY THIS OFFICE AS FOLLOWS:

Inv. No. 350-84 Date of Alarm 5-10-84 Time of Alarm 0111 hours

Address 270 DUFFY AVENUE, HICKSVILLE- DUMP TRUCK ON PROPERTY

Classification INCENDIARY

Investigator J.SCHWEITZER

_____ LOCAL FIRE DEPARTMENT REPORT FILED WITH THIS OFFICE INDICATES:

Fire at _____

Date of Alarm _____ Time of Alarm _____

Cause _____

_____ NO REPORT AT THIS OFFICE OF A FIRE AT _____

_____

_____ INSUFFICIENT INFORMATION.

PLEASE NOTE: FOR FUTURE CORRESPONDENCE, PLEASE ENCLOSE A STAMPED, SELF-ADDRESSED ENVELOPE.

Joseph G. Boslet, Jr.
Fire Marshal

00378I
9/86

R-314

REFERENCE #18

ANALYTICAL DATA
NAME: ALSY MANUFACTURING
SAMPLING DATE: 6/16/87
CASE NUMBER: 7459

VOLATILES

SAMPLE NUMBER	NYT7-GW1	NYT7-GW2	NYT7-BL1	NYT7-SW1	NYT7-S1	NYT7-S2	NYT7-S3	NYT7-S4	NYT7-SED1	NYT7-SED2
TRAFFIC REPORT NUMBER	BJ 850	BK264	BK 271	BK 273	BK 270	BK 269	BK 265	BK 266	BK 268	BK 272
MATRIX	AQUEOUS	AQUEOUS	AQUEOUS	AQUEOUS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
CONC./DILUTION FACTOR	5	1	1	1	1	1	1	1	1	5
Chloromethane										
Bromomethane										
Vinyl Chloride										
Chloroethane										
Methylene Chloride	Q	Q	Q	Q	Q	Q	Q	Q	Q	99 B
Acetone	Q	Q	Q	Q	Q	Q	Q	88 B	Q	1500 B
Carbon Disulfide										27
1,1-Dichloroethene	Q	Q	Q	Q	Q	Q	Q	Q	Q	
1,1-Dichloroethane	5 J									
Trans-1,2-Dichloroethene										
Chloroform	Q	Q	Q	Q	Q	Q	Q	15 B	Q	160 B
1,2-Dichloroethane										
2-Butanone										
1,1,1-Trichloroethane	60	140		J		J	J		J	
Carbon Tetrachloride										
Vinyl Acetate										
Bromodichloromethane										
1,2-Dichloropropane										
Trans-1,3-Dichloropropene										
Trichloroethene	18 J	J			Q	J	J	Q		
Dibromochloromethane										
1,1,2-Trichloroethane										
Benzene		Q	Q	Q		Q	Q	Q	Q	
Cis-1,3-Dichloropropene										
2-Chloroethylvinylether										
Bromoform										
2-Hexanone							Q			
4-Methyl-2-Pentanone										
Tetrachloroethene	680 B	Q	Q	84 B				Q		35
1,1,2,2-Tetrachloroethane										
Toluene		Q	Q		Q	7	J	Q		3000 B
Chlorobenzene										
Ethylbenzene										860
Styrene										
Total Xylenes						J,B				6200

NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limit
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - estimated value due to the presence of interference
NR - analysis not required

R-315

ANALYTICAL DATA
NAME: ALSY MANUFACTURING
SAMPLING DATE: 6/16/87
CASE NUMBER: 7459

SEMI-VOLATILES

SAMPLE NUMBER	NYT7-GW1	NYT7-GW2	NYT7-BL1	NYT7-SW1	NYT7-S1	NYT7-S2	NYT7-S3	NYT7-S4	NYT7-SED1	NYT7-SED2
TRAFFIC REPORT NUMBER	BJ 850	BK264	BK 271	BK 273	BK 270	BK 269	BK 265	BK 266	BK 268	BK 272
MATRIX	AQUEOUS	AQUEOUS	AQUEOUS	AQUEOUS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
CONC./DILUTION FACTOR	1	1	1	1	1	1	1	10	1	10
Phenol										
Bis(2-Chloroethyl)Ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
Benzyl Alcohol										
1,2-Dichlorobenzene										
2-Methylphenol										
Bis(2-Chloroisopropyl)Ether										
4-Methylphenol										
N-Nitroso-Di-n-Propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
Benzoic Acid										
Bis(2-Chloroethoxy)Methane										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene						J				
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-Methylphenol										
2-Methylnaphthalene						J				
Hexachlorocyclopentadiene										
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethyl Phthalate					510					
Acenaphthylene										
3-Nitroaniline										
Acenaphthene										
2,4-Dinitrophenol										
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
2,6-Dinitrotoluene										
Diethylphthalate					J					
4-Chlorophenylphenyl ether										
Fluorene										
4-Nitroaniline										
4,6-Dinitro-2-Methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenylphenyl ether										
Hexachlorobenzene										

R-316

ANALYTICAL DATA
NAME: ALSY MANUFACTURING
SAMPLING DATE: 6/16/87
CASE NUMBER: 7459

SEMI-VOLATILES

SAMPLE NUMBER	NYT7-GW1	NYT7-GW2	NYT7-BL1	NYT7-SW1	NYT7-S1	NYT7-S2	NYT7-S3	NYT7-S4	NYT7-SED1	NYT7-SED2
TRAFFIC REPORT NUMBER	BJ 850	BK264	BK 271	BK 273	BK 270	BK 269	BK 265	BK 266	BK 268	BK 272
MATRIX	AQUEOUS	AQUEOUS	AQUEOUS	AQUEOUS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
CONC./DILUTION FACTOR	1	1	1	1	1	1	1	10	1	10
Pentachlorophenol										
Phenanthrene					J	J	J	250 J		
Anthracene										
Di-n-Butylphthalate					2000	J	J	1400 J	J	58000
Fluoranthene					J	J	J	830 J	J	
Pyrene					J	J	J	490 J	J	
Butylbenzylphthalate					2100	J		240 J	J	600 J
3,3'-Dichlorobenzidine										
Benzo(a)Anthracene					Q	J	Q			
Bis(2-Ethylhexyl)Phthalate					790	5900	Q	44000	2800	840 J
Chrysene					J	J	J	480 J		
Di-n-Octyl Phthalate					J	Q		140 J		
Benzo(b)Fluoranthene						J	J	440 J		
Benzo(k)Fluoranthene						J	J			
Benzo(a)Pyrene								280 J		
Indeno(1,2,3-cd)Pyrene										
Dibenzo(a,h)Anthracene										
Benzo(ghi)Perylene										

NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limit
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - estimated value due to the presence of interference
NR - analysis not required

ANALYTICAL DATA
NAME: ALSY MANUFACTURING
SAMPLING DATE: 6/16/87
CASE NUMBER: 7459

PESTICIDES/PCBs

SAMPLE NUMBER	NYT7-GW1	NYT7-GW2	NYT7-BL1	NYT7-SW1	NYT7-S1	NYT7-S2	NYT7-S3	NYT7-S4	NYT7-SED1	NYT7-SED2
TRAFFIC REPORT NUMBER	BJ 850	BK264	BK 271	BK 273	BK 270	BK 269	BK 265	BK 266	BK 268	BK 272
MATRIX	AQUEOUS	AQUEOUS	AQUEOUS	AQUEOUS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
CONC./DILUTION FACTOR	1	1	1	1	1	1	1	20	1	1
Alpha-BHC										
Beta-BHC										
Delta-BHC										
Gamma-BHC (Lindane)										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE					18		170		Q	
Endrin										
Endosulfan II										
4,4'-DDD							53			
Endosulfan sulfate										
4,4'-DDT							210			
Methoxychlor										
Endrin Ketone										
Chlordane										
Toxaphene										
Aroclor-1016										
Aroclor-1221										
Aroclor-1232										
Aroclor-1242										
Aroclor-1248										
Aroclor-1254								16000	170	
Aroclor-1260					1000	3900				

NOTES TO ORGANICS DATA:

Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
J - compound present below contract-specified detection limits, but above instrument detection limit
B - compound found in laboratory blank as well as the sample, and indicates possible/probable blank contamination
E - estimated value due to the presence of interference
NR - analysis not required

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 • 703 557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number: BJ 850

① Case Number: 7459

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

✓ Water
___ Soil/Sediment

④ Ship To:
York Laboratories
266 Monroe Turnpike
Monroe, CT 06468

Attn: John Culick

Transfer
Ship To:

⑤ Regional Office: FIT 2

Sampling Personnel:
RANDY RICE
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 (Begin) 6/16/87 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: [illegible] Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	6	480	ok - no Tags
Water (VOA)	4	160 ml	ok - No Tags 4 have air
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ Shipping Information

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4186830655
Airbill Number:

⑧ Sample Description

___ Surface Water
✓ Ground Water
___ Leachate
___ Mixed Media
___ Solids
✓ Other (specify) sample to spike MS/MSD

⑨ Sample Location

GW-1

MATCHES
INORGANIC SAMPLE MBJ650

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

LAB FILE COPY

R-319

Organics Analysis Data Sheet
(Page 1)

0 0 32

Laboratory Name: YORK
Lab Sample ID No: 1086001
Sample Matrix: WATER
Data Release Authorized By: Larry Lewis

Case No: 7495
QC Report No:
Contract No: 68-01-7157
Date Sample Received: 6-17-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6-18-87
Date Analyzed: 6-18-87
Conc/Dil Factor: 5.0 pH N/A
Percent Moisture: (Not Decanted) N/A

CAS Number		(ug/l or ug/Kg) (Circle One)
74-87-3	Chloromethane	50U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	[illegible]B
67-64-1	Acetone	[illegible]B
75-15-0	Carbon Disulfide	25U
75-35-4	1, 1-Dichloroethene	[illegible]B
75-34-3	1, 1-Dichloroethane	5J
156-60-5	Trans-1, 2-Dichloroethene	25U
67-66-3	Chloroform	[illegible]B
107-06-2	1, 2-Dichloroethane	25U
78-93-3	2-Butanone	50U
71-55-6	1, 1, 1-Trichloroethane	60 25U SLP 7-17-87
56-23-5	Carbon Tetrachloride	25U
108-05-4	Vinyl Acetate	50U
75-27-4	Bromodichloromethane	25U

CAS Number		(ug/l or ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	25U
10061-02-6	Trans-1, 3-Dichloropropene	25U
79-01-6	Trichloroethene	18J
124-48-1	Dibromochloromethane	25U
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	50U
75-25-2	Bromoform	25U
108-10-1	4-Methyl-2-Pentanone	50U
591-78-6	2-Hexanone	50U
127-18-4	Tetrachloroethene	680B
79-34-5	1, 1, 2, 2-Tetrachloroethane	25U
108-88-3	Toluene	[illegible]
108-90-7	Chlorobenzene	25U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: YORK LABORATORIES

Case No: 7495

Sample Number: BJ 850

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Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE DETECTED	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Lab Name: York Labs

Case No: EPA 7485

Sample Number: B5850

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 06-18-87

Date Analyzed: 07-02-87

Conc/Dil Factor: 1.0

Percent Moisture (Decanted) N/A

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10U
111-44-4	bis(-2-Chloroethyl)Ether	
[illegible]-57-8	2-Chlorophenol	
[illegible]1-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
[illegible]0-51-6	Benzyl Alcohol	
[illegible]50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
108-32-9	bis(2-chloroisopropyl)Ether	
[illegible]-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
[illegible]72-1	Hexachloroethane	
[illegible]95-3	Nitrobenzene	
[illegible]-59-1	Isophorone	
[illegible]75-5	2-Nitrophenol	
[illegible]-67-9	2, 4-Dimethylphenol	
[illegible]-85-0	Benzoic Acid	50U
[illegible]91-1	bis(-2-Chloroethoxy)Methane	10U
[illegible]83-2	2, 4-Dichlorophenol	
[illegible]-82-1	1, 2, 4-Trichlorobenzene	
[illegible]20-3	Naphthalene	
[illegible]47-8	4-Chloroaniline	
[illegible]8-3	Hexachlorobutadiene	
[illegible]-50-7	4-Chloro-3-Methylphenol	
[illegible]7-6	2-Methylnaphthalene	
[illegible]7-4	Hexachlorocyclopentadiene	
[illegible]06-2	2, 4, 6-Trichlorophenol	
[illegible]-4	2, 4, 5-Trichlorophenol	50U
[illegible]8-7	2-Chloronaphthalene	10U
[illegible]74-4	2-Nitroaniline	50U
[illegible]1-3	Dimethyl Phthalate	10U
[illegible]96-8	Acenaphthylene	10U
[illegible]09-2	3-Nitroaniline	50U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10U
51-28-5	2, 4-Dinitrophenol	50U
100-02-7	4-Nitrophenol	50U
132-64-9	Dibenzofuran	10U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	50U
534-52-1	4, 6-Dinitro-2-Methylphenol	50U
86-30-6	N-Nitrosodiphenylamine (1)	10U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	50U
85-01-8	Phenanthrene	10U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	20U
56-55-3	Benzo(a)Anthracene	10U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/95

R-322

Laboratory Name: York Labs

Case No: 7495

Sample Number: BJ850

C. C 35

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/19/87

Date Analyzed: 6/29/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted): NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	0.05u
319-86-8	Delta-BHC	0.05u
58-89-9	Gamma-BHC (Lindane)	0.05u
76-44-8	Heptachlor	0.05u
309-00-2	Aldrin	0.05u
1024-57-3	Heptachlor Epoxide	0.05u
959-98-8	Endosulfan I	0.05u
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	0.10u
72-20-8	Endrin	0.10u
33213-65-9	Endosulfan II	0.10u
72-54-8	4, 4'-DDD	0.10u
1031-07-8	Endosulfan Sulfate	0.10u
50-29-3	4, 4'-DDT	0.10u
72-43-5	Methoxychlor	0.50u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	0.5u
11141-16-5	Aroclor-1232	0.5u
53469-21-9	Aroclor-1242	0.5u
12672-29-6	Aroclor-1248	0.5u
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	1.0u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000. or W_s _____ V_t 10,000. V_i ~~4.0~~ 2.0 MCM 7/16/87

R-323

Lab Name: York Laboratories

Case No.: EPA 7495

Sample Number: BJ850

0 0 36

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration ug/l or ug/kg
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123911	1,4-DIOXANE	BNA	5.05	27
12.		BNA	7.43	180
13.	ALDOL COND. PROD.	BNA	8.10	33
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Lab Name: YORK LABORATORIES

Case No: 7495

Sample Number
BK 271

U 0609

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE DETECTED	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

R-325

Name: York Laboratories
EPA 7495

Sample Number: BK 271 0010

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	ALDOL COND. PROD.	BNA	8.09	29
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
Box 818 Alexandria, Virginia 22313 • 703 557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BK 273

0 0733

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

✓ Water
___ Soil/Sediment

④ **Ship To:** York Laboratories
200 Monroe Tpk.
Monroe, CT 06468
Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** FIT 2
Sampling Personnel:
ANDY RICE
(Name)
(201) 225-6160
(Phone)
Sampling Date: 6/16/87 6/16/87
(Begin) (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)	3	240 oz.	OK - No Tags
Water (VOA)	2	80 ml.	OK - no tags 1 has air
Soil/Sediment (Extractable)			
Soil/Sediment (VOA)			
Other			

⑦ **Shipping Information**
Federal Express
Name of Carrier
6/16/87
Date Shipped:
4486830655
Airbill Number:

⑧ **Sample Description**

✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify) ___

⑨ **Sample Location**
SW-1
MATCHES INORGANIC SAMPLE MBK SW1

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

R-327

Sample Number
BK273

0 0734

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: York Laboratories
Case No: 7495
Lab Sample ID No: 1086010
QC Report No:
Sample Matrix: WATER
Contract No: 68-01-7157
Data Release Authorized By:
Date Sample Received: 6-17-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6-18-87
Date Analyzed: 6-18-87
Conc/Dil Factor: 1.0 pH N/A
Percent Moisture: (Not Decanted) N/A

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	2B
67-64-1	Acetone	5B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5B
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	3B
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	3J
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		(ug/l) or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	3B
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	84B
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R-328

Name: York Labs

#: EPA 7495

Sample Number: BK273

0735

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 06-18-87

Date Analyzed: 07-02-87

Conc/Dil Factor: 1.0

Percent Moisture (Decanted) N/A

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10u
111-44-4	bis(-2-Chloroethyl)Ether	↓
95-57-8	2-Chlorophenol	↓
541-73-1	1, 3-Dichlorobenzene	↓
106-46-7	1, 4-Dichlorobenzene	↓
100-51-6	Benzyl Alcohol	↓
95-50-1	1, 2-Dichlorobenzene	↓
95-48-7	2-Methylphenol	↓
108-60-1	bis(2-chloroisopropyl)Ether	↓
106-44-5	4-Methylphenol	↓
621-64-7	N-Nitroso-Di-n-Propylamine	↓
67-72-1	Hexachloroethane	↓
98-95-3	Nitrobenzene	↓
78-59-1	Isophorone	↓
88-75-5	2-Nitrophenol	↓
105-67-9	2, 4-Dimethylphenol	↓
65-85-0	Benzoic Acid	50u
111-91-1	bis(-2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	↓
120-82-1	1, 2, 4-Trichlorobenzene	↓
91-20-3	Naphthalene	↓
106-47-8	4-Chloroaniline	↓
87-68-3	Hexachlorobutadiene	↓
59-50-7	4-Chloro-3-Methylphenol	↓
91-57-6	2-Methylnaphthalene	↓
77-47-4	Hexachlorocyclopentadiene	↓
88-06-2	2, 4, 6-Trichlorophenol	↓
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	↓
606-20-2	2, 6-Dinitrotoluene	↓
84-66-2	Diethylphthalate	↓
7005-72-3	4-Chlorophenyl-phenylether	↓
86-73-7	Fluorene	↓
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	↓
118-74-1	Hexachlorobenzene	↓
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	↓
84-74-2	Di-n-Butylphthalate	↓
206-44-0	Fluoranthene	↓
129-00-0	Pyrene	↓
85-68-7	Butylbenzylphthalate	↓
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	↓
218-01-9	Chrysene	↓
117-84-0	Di-n-Octyl Phthalate	↓
205-99-2	Benzo(b)Fluoranthene	↓
207-08-9	Benzo(k)Fluoranthene	↓
50-32-8	Benzo(a)Pyrene	↓
193-39-5	Indeno(1, 2, 3-cd)Pyrene	↓
53-70-3	Dibenz(a, h)Anthracene	↓
191-24-2	Benzo(g, h, i)Perylene	↓

(1)-Cannot be separated from diphenylamine

9/95 R-329

Laboratory Name: York Labs

Case No 7495

Sample Number BK273 0 0756

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/19/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) NA

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☒Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	0.05u
319-86-8	Delta-BHC	0.05u
58-89-9	Gamma-BHC (Lindane)	0.05u
76-44-8	Heptachlor	0.05u
309-00-2	Aldrin	0.05u
1024-57-3	Heptachlor Epoxide	0.05u
959-98-8	Endosulfan I	0.05u
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	0.10u
72-20-8	Endrin	0.10u
33213-65-9	Endosulfan II	0.10u
72-54-8	4, 4'-DDD	0.10u
1031-07-8	Endosulfan Sulfate	0.10u
50-29-3	4, 4'-DDT	0.10u
72-43-5	Methoxychlor	0.50u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	0.5u
11141-16-5	Aroclor-1232	0.5u
53469-21-9	Aroclor-1242	0.5u
12672-29-6	Aroclor-1248	0.5u
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	1.0u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000. or W_s _____ V_t 10,000. V_i ~~4.0~~ 2.0 mcm 7/16/87

R-330

Lab Name: YORK LABORATORIES

No: 7495

Sample Number
BK 273

0 0737

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE DETECTED	VOA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

R-331

Name: York Laboratories
EPA 7495

0 0738

Sample Number
BK 273

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration ug/l or ug/kg
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 123911	1,4-DIOXANE	BNA	5.05	12
12.		~~BNA~~	~~7.42~~	~~18~~
13.	ALDOL COND PRODUCT	BNA	8.09	34
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

R-332

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 • 703-557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BK 270

0 0513

① Case Number: 7459

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

___ Water
✓ Soil/Sediment

④ Ship To: Jack Laboratories
[illegible] Turnpike
[illegible], CT 06468

Attn: John Culick

Transfer
Ship To:

⑤ Regional Office: FIT 2

Sampling Personnel:
Randy Rice
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 (Begin) 6/16/87 (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

⑪ Analysis Lab:
Rec'd by: [illegible]
Date Rec'd: 6/[illegible]

	Number of Containers	Approximate Total Volume	Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	ok - no Toys
Soil/Sediment (VOA)	1	120 ml.	ok - no Toys
Other			

⑦ Shipping Information

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4486830655
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
✓ Other (specify) Sample to spike MS/MSD

⑨ Sample Location

3-1

MATCHES INORGANIC SAMPLE MBK 538

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

R-333

LAB FILE COPY

Sample Number
BK2700 0514

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: York Laboratories
Case No: 7495
Lab Sample ID No: 1086007
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7157
Data Release Authorized By: [signature]
Date Sample Received: 6·17·87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6·23·87
Date Analyzed: 6·23·87
Conc/Dil Factor: 1.0 pH 7.70
Percent Moisture: (Not Decanted) 8%

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	~~5~~ B
67-64-1	Acetone	~~2~~ B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	~~5~~ B
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	~~5~~ B
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	~~5~~ B
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	5u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	~~5~~ B
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1-1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R334

ame: York Labs
EPA 7495

Sample Number
BK270

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

entration: Low, Medium (Circle One)
e Extracted/Prepared: 06-22-87
ate Analyzed: 07-03-87
Conc/Dil Factor: 1.0
Percent Moisture (Decanted) 4%

GPC Cleanup ☐Yes ☑No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	330u
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
5-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
9638-32-9	bis(2-chloroisopropyl)Ether	
06-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
-95-3	Nitrobenzene	
78-59-1	Isophorone	
8-75-5	2-Nitrophenol	
5-67-9	2, 4-Dimethylphenol	
55-85-0	Benzoic Acid	1600u
111-91-1	bis(-2-Chloroethoxy)Methane	330u
0-83-2	2, 4-Dichlorophenol	
20-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
6-47-8	4-Chloroaniline	
7-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
57-6	2-Methylnaphthalene	
7-47-4	Hexachlorocyclopentadiene	
8-06-2	2, 4, 6-Trichlorophenol	
95-4	2, 4, 5-Trichlorophenol	1600u
58-7	2-Chloronaphthalene	330u
8-74-4	2-Nitroaniline	1600u
-11-3	Dimethyl Phthalate	510
-96-8	Acenaphthylene	330u
9-09-2	3-Nitroaniline	1600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2, 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	15J
7005-72-3	4-Chlorophenyl-phenylether	330u
86-73-7	Fluorene	330u
100-01-6	4-Nitroaniline	1600u
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	18J
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	2000
206-44-0	Fluoranthene	57J
129-00-0	Pyrene	48J
85-68-7	Butylbenzylphthalate	2100
91-94-1	3, 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	~~[illegible]~~
117-81-7	bis(2-Ethylhexyl)Phthalate	790
218-01-9	Chrysene	47J
117-84-0	Di-n-Octyl Phthalate	13J
205-99-2	Benzo(b)Fluoranthene	330u
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/95 R-335

Lab Name: York Labs

Lab No: 7495

Sample Number: BK-270

Organics Analysis Data Sheet
(Page 3)

0 0516

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/22/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 8.88

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)
319-84-6	Alpha-BHC	8.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	8.0u
58-89-9	Gamma-BHC (Lindane)	8.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	8.0u
1024-57-3	Heptachlor Epoxide	8.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	16.u
72-55-9	4, 4'-DDE	18.
72-20-8	Endrin	16.u
33213-65-9	Endosulfan II	16.u
72-54-8	4, 4'-DDD	16.u
1031-07-8	Endosulfan Sulfate	16.u
50-29-3	4, 4'-DDT	16.u
72-43-5	Methoxychlor	80.u
53494-70-5	Endrin Ketone	16.u
57-74-9	Chlordane	80.u
8001-35-2	Toxaphene	160.u
12674-11-2	Aroclor-1016	80.u
11104-28-2	Aroclor-1221	80.u
11141-16-5	Aroclor-1232	80u
53469-21-9	Aroclor-1242	80.u
12672-29-6	Aroclor-1248	80u
11097-69-1	Aroclor-1254	160.u
11096-82-5	Aroclor-1260	1000.

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30.01 V_t 20,000 V_i 2.0

R-336

Lab Name: YORK LABORATORIES

Case No: 7425

Sample Number: BK 270

0 0517

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	NONE DETECTED	VOA	N/A	N/A
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: York Labs

Case No: EPA 7495

Sample Number: BK270

0 0518

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	UNKNOWN ALKENE/CYCLOALKANE	BNA	7.15	210
12.	ALDOL COND. PROD.		7.55	3900
13.	ALDOL COND. PROD.		8.21	40000
14. 110123	5-METHYL-2-HEXANONE		8.44	820
15.	UNKNOWN, C9-ALKANE		8.54	1100
16.	UNKNOWN, C9-ALKANE		8.71	2700
17.	UNKNOWN, ~~ALDOL COND PROD~~ SVC		9.68	880
18.	UNKNOWN, ALKANE		9.95	250
19.	UNKNOWN, ALKENE/CYCLOALKANE		10.30	670
20.	UNKNOWN, ALKANE		11.14	480
21.	~~UNKNOWN, SULFUR CMPD~~ SVC		~~23.49~~	~~440~~
22.	UNKNOWN, SULFUR CMPD		24.52	880
23.	UNKNOWN, ALKANE		33.27	660
24.	UNKNOWN, ALKANE	↓	35.58	600
25.	TETRACHLOROBIPHENYL ISOMER		26.41	56
26.	PENTACHLOROBIPHENYL ISOMER		26.51	91
27.	HEXACHLOROBIPHENYL ISOMER		28.24	46
28.				
29.				
30.				

R-338

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

ORGANICS TRAFFIC REPORT

Sample Number
BK 269

U 0416

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

___ Water
✓ Soil/Sediment

④ **Ship To:** York Laboratories
200 Monroe Turnpike
Monroe, CT 06468

Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** FIT 2

Sampling Personnel:
Randy Rice
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 6/16/87
(Begin) (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

⑪ **Analysis Lab:**
Rec'd by: [illegible]
Date Rec'd: 6/17/87
Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)

	Number of Containers	Approximate Total Volume	Sample Condition on Receipt
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	OK - No Tags
Soil/Sediment (VOA)	1	120 mL	OK - No Tags
Other			

⑦ **Shipping Information**

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4868308655
Airbill Number:

⑧ **Sample Description**

___ Surface Water ___ Mixed Media
___ Ground Water ✓ Solids
___ Leachate ___ Other (specify) _____

⑨ **Sample Location**

S-2

MATCHES INORGANIC SAMPLE MBK 537

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

R-339

LAB FILE COPY

Sample Number
BK 269

0 0417

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: YORK LABORATORIES
Case No: 7495
Lab Sample ID No: 1D860016
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7157
Data Release Authorized By:
Date Sample Received: 6/17/87

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6-23-87

Date Analyzed: 6-23-87

Conc/Dil Factor: 1.0 pH 7.55

Percent Moisture: (Not Decanted) 7.8%

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	~~7B~~
67-64-1	Acetone	~~2B~~
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	~~2J~~
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	~~1B~~
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	0.7J
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	1J
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	0.~~1B~~
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	10U
591-78-6	2-Hexanone	10U
127-18-4	Tetrachloroethene	5U
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
108-88-3	Toluene	7
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	3JB

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

R-340

ory Name: York Labs

No: EPA 7495

Sample Number: BK 269

0418

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

ate Extracted/Prepared: 06-22-87

Date Analyzed: 07-03-87

nc/Dil Factor: 1.0

ercent Moisture (Decanted) 7%

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
8-95-2	Phenol	330U
111-44-4	bis(-2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
1-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
0-51-6	Benzyl Alcohol	
50-1	1, 2-Dichlorobenzene	
5-48-7	2-Methylphenol	
638-32-9	bis(2-chloroisopropyl)Ether	
-44-5	4-Methylphenol	
1-64-7	N-Nitroso-Di-n-Propylamine	
72-1	Hexachloroethane	
95-3	Nitrobenzene	
-59-1	Isophorone	
75-5	2-Nitrophenol	
-67-9	2, 4-Dimethylphenol	
-85-0	Benzoic Acid	1600U
1-91-1	bis(-2-Chloroethoxy)Methane	330U
-83-2	2, 4-Dichlorophenol	
-82-1	1, 2, 4-Trichlorobenzene	
1-20-3	Naphthalene	30J
-47-8	4-Chloroaniline	330U
-68-3	Hexachlorobutadiene	
9-50-7	4-Chloro-3-Methylphenol	
-7-6	2-Methylnaphthalene	67J
-7-4	Hexachlorocyclopentadiene	330U
8-06-2	2, 4, 6-Trichlorophenol	330U
-5-4	2, 4, 5-Trichlorophenol	1600U
-8-7	2-Chloronaphthalene	330U
8-74-4	2-Nitroaniline	1600U
11-3	Dimethyl Phthalate	330U
96-8	Acenaphthylene	330U
9-09-2	3-Nitroaniline	1600U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330U
51-28-5	2, 4-Dinitrophenol	1600U
100-02-7	4-Nitrophenol	1600U
132-64-9	Dibenzofuran	330U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1600U
534-52-1	4, 6-Dinitro-2-Methylphenol	1600U
86-30-6	N-Nitrosodiphenylamine (1)	330U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1600U
85-01-8	Phenanthrene	27J
120-12-7	Anthracene	330U
84-74-2	Di-n-Butylphthalate	80J
206-44-0	Fluoranthene	55J
129-00-0	Pyrene	57J
85-68-7	Butylbenzylphthalate	200J
91-94-1	3, 3'-Dichlorobenzidine	660U
56-55-3	Benzo(a)Anthracene	42J
117-81-7	bis(2-Ethylhexyl)Phthalate	5900
218-01-9	Chrysene	54J
117-84-0	Di-n-Octyl Phthalate	[redacted]
205-99-2	Benzo(b)Fluoranthene	71J
207-08-9	Benzo(k)Fluoranthene	60J
50-32-8	Benzo(a)Pyrene	330U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/95 R-341

U 0413

Laboratory Name: York Labs

Case No. 7495

Sample Number: BK 269

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/22/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 14.99

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	8.0u
58-89-9	Gamma-BHC (Lindane)	8.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	8.0u
1024-57-3	Heptachlor Epoxide	8.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	16.u
72-55-9	4, 4'-DDE	16.u
72-20-8	Endrin	16.u
33213-65-9	Endosulfan II	16.u
72-54-8	4, 4'-DDD	16.u
1031-07-8	Endosulfan Sulfate	16.u
50-29-3	4, 4'-DDT	16.u
72-43-5	Methoxychlor	80.u
53494-70-5	Endrin Ketone	16.u
57-74-9	Chlordane	80.u
8001-35-2	Toxaphene	160.u
12674-11-2	Aroclor-1016	80.u
11104-28-2	Aroclor-1221	80.u
11141-16-5	Aroclor-1232	80u
53469-21-9	Aroclor-1242	80.u
12672-29-6	Aroclor-1248	80u
11097-69-1	Aroclor-1254	160.u
11096-82-5	Aroclor-1260	3900.

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30.01 V_t 20,000 V_i 2.0

R-342

Laboratory Name: YORK LABORATORIES

Case No: 7495

Sample Number: BK 269

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	NONE DETECTED	VOA	N/A	N/A
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: York Labs

Case No: EPA 7495

Sample Number: BK269

0 0421

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number (m.n)	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	UNKNOWN, ALKENE/CYCLOALKANE	BNA	7.17	250
12.	ALDOL COND. PROD.		7.58	4600
13.	ALDOL COND. PROD.		8.23	46000
14.	UNKNOWN, C9-ALKANE		8.39	240
15.	UNKNOWN, ALKANE		8.45	440
16.	UNKNOWN, C9-ALKANE		8.56	1200
17.	UNKNOWN, ALKANE		8.73	4400
18.			~~9.27~~	~~540~~ BK
19.	UNKNOWN ALKANE		9.69	1000
20.	UNKNOWN, ALKENE/CYCLOALKANE		10.30	980
21.	UNKNOWN, ALKANE		11.15	310
22.			~~20.50~~	~~300~~ DA
23.		↓	~~30.31~~	~~660~~
24.	HEXACHLOROBIPHENYL ISOMER		28.25	47
25.	HEXACHLOROBIPHENYL ISOMER		28.70	46
26.	HEXACHLOROBIPHENYL ISOMER		29.30	35
27.	HEXACHLORO BIPHENYL ISOMER		29.62	41
28.	OCTACHLOROBIPHENYL ISOMER	↓	31.48	42
29.				
30.				

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 • 703 557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BK 265

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

___ Water
✓ Soil/Sediment

④ **Ship To:** 0 0143
York Laboratories
200 Monroe Turnpike
Monroe, CT. 06468
Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** EIT 2
Sampling Personnel:
Randy Rice
(Name)
(201) 225-6160
(Phone)
Sampling Date:
6/16/87 6/16/87
(Begin) (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: Date Rec'd: Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	ok - no Tags
Soil/Sediment (VOA)	1	120 ml.	ok - no Tags
Other			

⑦ **Shipping Information**
Federal Express
Name of Carrier
6/16/87
Date Shipped:
4486830655
Airbill Number:

⑧ **Sample Description**

___ Surface Water ___ Mixed Media
___ Ground Water ✓ Solids
___ Leachate ___ Other (specify) _____

⑨ **Sample Location**
S-3
MATCHES INORGANIC SAMPLE NO BK533

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

R-345

LAB FILE COPY

Sample Number
BK265

Organics Analysis Data Sheet
(Page 1)

0 0144

Lory Name: YORK
Case No: 7495
ample ID No: 1086003
QC Report No:
ple Matrix: Soil
Contract No: 68-01-7157
a Release Authorized By: Larry Lewis
Date Sample Received: 6.17.87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6.22.87
Date Analyzed: 6.22.87
Conc/Dil Factor: 1.0 pH 6.55
Percent Moisture: (Not Decanted) 18%

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	~~1~~ B
67-64-1	Acetone	~~1~~ B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	~~2~~
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	~~1~~ B
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	0.85J
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	1J
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	~~1~~ B
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	~~1~~ B
127-18-4	Tetrachloroethene	5u
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	2+J
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

SLP 7-17-87

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

R-346

Name York Labs

EPA 7495

0 0145

Sample Number

BK 265

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared 6-22-87

Date Analyzed: 07-06-87

Conc/Dil Factor: 1.0

Percent Moisture (Decanted) 10%

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	330u
1-44-4	bis(-2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
6-46-7	1, 4-Dichlorobenzene	
0-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
48-7	2-Methylphenol	
638-32-9	bis(2-chloroisopropyl)Ether	
06-44-5	4-Methylphenol	
1-64-7	N-Nitroso-Di-n-Propylamine	
72-1	Hexachloroethane	
8-95-3	Nitrobenzene	
8-59-1	Isophorone	
75-5	2-Nitrophenol	
05-67-9	2, 4-Dimethylphenol	
5-85-0	Benzoic Acid	1600u
91-1	bis(-2-Chloroethoxy)Methane	330u
20-83-2	2, 4-Dichlorophenol	
20-82-1	1, 2, 4-Trichlorobenzene	
0-3	Naphthalene	
47-8	4-Chloroaniline	
7-68-3	Hexachlorobutadiene	
0-7	4-Chloro-3-Methylphenol	
7-6	2-Methylnaphthalene	
7-47-4	Hexachlorocyclopentadiene	
5-2	2, 4, 6-Trichlorophenol	
5-4	2, 4, 5-Trichlorophenol	1600u
-58-7	2-Chloronaphthalene	330u
-4	2-Nitroaniline	1600u
1-3	Dimethyl Phthalate	330u
8-96-8	Acenaphthylene	330u
-2	3-Nitroaniline	1600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2, 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1600u
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	43J
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	44J
206-44-0	Fluoranthene	71J
129-00-0	Pyrene	54J
85-68-7	Butylbenzylphthalate	330u
91-94-1	3, 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	~~45J~~
117-81-7	bis(2-Ethylhexyl)Phthalate	~~330u~~
218-01-9	Chrysene	62J
117-84-0	Di-n-Octyl Phthalate	330u
205-99-2	Benzo(b)Fluoranthene	41J
207-08-9	Benzo(k)Fluoranthene	48J
50-32-8	Benzo(a)Pyrene	~~435~~ 330u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	330u
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

JCC 7/22/87

(1)-Cannot be seperated from diphenylamine

9/95 R-347

Form I

7 85

ory Name: YORK LABORATORIES

No: 7495

Sample Number
BK 265

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	NONE DETECTED	VOA	N/A	N/A
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Lab Name: York Labs

Case No: EPA 7495

Sample Number: BK265

0 0148

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.	UNKNOWN, ALKENE/CYCLOALKANE	BNA	7.10	~~206~~ 210
12.	UNKNOWN,		7.48	4900
13.	ALDOL COND. PROD.		8.12	5700C
14.	UNKNOWN, ALKANE		8.34	300
15.	UNKNOWN, HYDROCARBON		8.37	320
16.	UNKNOWN, ALKANE		8.50	1200
17.	UNKNOWN, ALKANE		8.67	1700
18.	UNKNOWN, HYDROCARBON		9.63	1100
19.	UNKNOWN, HYDROCARBON		9.91	380
20.	UNKNOWN, HYDROCARBON		10.24	370
21.	UNKNOWN, HYDROCARBON		11.09	370
22. 4425825	9H-FLUORENE, 9-METHYLENE		23.45	520
23.	UNKNOWN		26.52	530
24.	UNKNOWN, ALDEHYDE		29.29	220
25.			~~30.29~~	~~580~~
26.	UNKNOWN, ALKANE		33.26	1300
27.	UNKNOWN, ALKANE		35.56	1400
28.	UNKNOWN, HYDROCARBON		39.74	9600
29.				
30.				

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

ORGANICS TRAFFIC REPORT

Sample Number
BK 266

U 0238

① Case Number: 7459

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

___ Water
✓ Soil/Sediment

④ Ship To:
York Laboratories
200 Monroe Turnpike
Monroe, CT. 06468

Attn: John Cullick

Transfer
Ship To:

⑤ Regional Office: EIT 2

Sampling Personnel:
Randy Rice
(Name)
(201) 225-6160
(Phone)

Sampling Date:
6/16/87 6/16/87
(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 6/17/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	ok - no Tags
Soil/Sediment (VOA)	1	120 ml.	ok - no Tags
Other			

⑦ Shipping Information

Federal Express
Name of Carrier

6/16/87
Date Shipped:

4486830655
Airbill Number:

⑧ Sample Description

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ Sample Location

S-4

MATCHES INORGANIC SAMPLE MBK 534

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

D-351

LAB FILE COPY

Sample Number
BK 266

Organics Analysis Data Sheet
(Page 1)

0 0239

Laboratory Name: York Laboratories
Case No: 7495
Lab Sample ID No: 1086004
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7157
Data Release Authorized By:
Date Sample Received: 6·17·87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6·23·87
Date Analyzed: 6·23·87
Conc/Dil Factor: 1.0 pH 6.65
Percent Moisture: (Not Decanted) 78%

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	B
67-64-1	Acetone	88 B
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	B
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	15 B
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	B
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
108-10-1	4-Methyl-2-Pentanone	10u
591-78-6	2-Hexanone	10u
127-18-4	Tetrachloroethene	
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
108-88-3	Toluene	
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µl in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R-352

Lab Name: York Labs

Lab Code: EPA 7495

Sample Number
BK266

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6-22-87

Date Analyzed: 07-06-87

Conc/Dil Factor: 10

Percent Moisture (Decanted): 31%

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 u
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	16000 u
111-91-1	bis(-2-Chloroethoxy)Methane	3300 u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	16000 u
91-58-7	2-Chloronaphthalene	3300 u
88-74-4	2-Nitroaniline	16000 u
131-11-3	Dimethyl Phthalate	3300 u
208-96-8	Acenaphthylene	3300 u
99-09-2	3-Nitroaniline	16000 u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	3300 u
51-28-5	2, 4-Dinitrophenol	16000 u
100-02-7	4-Nitrophenol	16000 u
132-64-9	Dibenzofuran	3300 u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	16000 u
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 u
86-30-6	N-Nitrosodiphenylamine (1)	3300 u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	16000 u
85-01-8	Phenanthrene	250 J
120-12-7	Anthracene	3300 u
84-74-2	Di-n-Butylphthalate	~~1300 J~~ 440 J JC 7/22/87
206-44-0	Fluoranthene	830 J
129-00-0	Pyrene	490 J
85-68-7	Butylbenzylphthalate	240 J
91-94-1	3, 3'-Dichlorobenzidine	16000 u
56-55-3	Benzo(a)Anthracene	~~260 J~~ 330 u JC 7/22/87
117-81-7	bis(2-Ethylhexyl)Phthalate	44000
218-01-9	Chrysene	480 J
117-84-0	Di-n-Octyl Phthalate	140 J
205-99-2	Benzo(b)Fluoranthene	440 J
207-08-9	Benzo(k)Fluoranthene	3300 u
50-32-8	Benzo(a)Pyrene	~~280 J~~
193-39-5	Indeno(1, 2, 3-cd)Pyrene	3300 u
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be seperated from diphenylamine

9/95 R-353

0 0241

Sample Number: BK266

Laboratory Name: York Labs

Case No: 7495

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6/22/87

Date Analyzed: 7/3/87

Conc/Dil Factor: 20.

Percent Moisture (decanted) 63.78

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	120.U
319-85-7	Beta-BHC	120.U
319-86-8	Delta-BHC	120.U
58-89-9	Gamma-BHC (Lindane)	120.U
76-44-8	Heptachlor	120.U
309-00-2	Aldrin	120.U
1024-57-3	Heptachlor Epoxide	120.U
959-98-8	Endosulfan I	120.U
60-57-1	Dieldrin	240.U
72-55-9	4, 4'-DDE	240.U
72-20-8	Endrin	240.U
33213-65-9	Endosulfan II	240.U
72-54-8	4, 4'-DDD	240.U
1031-07-8	Endosulfan Sulfate	240.U
50-29-3	4, 4'-DDT	240.U
72-43-5	Methoxychlor	1200.U
53494-70-5	Endrin Ketone	240.U
57-74-9	Chlordane	1200.U
8001-35-2	Toxaphene	2400.U
12674-11-2	Aroclor-1016	1200.U
11104-28-2	Aroclor-1221	1200.U
11141-16-5	Aroclor-1232	1200.U
53469-21-9	Aroclor-1242	1200.U
12672-29-6	Aroclor-1248	1200.U
11097-69-1	Aroclor-1254	~~24~~ 16,000
11096-82-5	Aroclor-1260	2400.U

MCM 7/16

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30.01 V_t 20,000. V_i 2.0

R-354

7/85

Form 1

Sample Number
BK 266

Lab Name: YORK LABORATORIES
Case No: 7495

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	NONE DETECTED	VOA	N/A	N/A
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: York Labs

Case No: EPA 7495

Sample Number
BK266

Organics Analysis Data Sheet
(Page 4)

0 0243

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.	UNKNOWN	BNA	7.46	66000
11.	ALDOL CONN. PROD.		8.03	100000
12.	UNKNOWN, ALKANE		8.67	6100
13. 100-97-0	1,3,5,7-TETRAAZATRICYCLO[3.3.1.1^{3,7}]DECANE		15.50	8100
14. 95-16-9	BENZOTHIAZOLE		15.56	2500
15.	1,3-ISOBENZOFURANDIONE		16.92	2800
16. 103-71-9	ISOCYANATOBENZENE		18.95	3700
17.	UNKNOWN		21.16	7600
18. ~~1862073~~	~~6-(Dimethylamino)-1-Hexanol~~ DNP		~~23.46~~	~~10000~~ DNP
19. 1862073	6-(DIMETHYLAMINO)-1-HEXANOL		24.17	2800
20.	UNKNOWN, ALKANE		33.26	8100
21. 629925	NONADECANE		35.57	5000
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office

ORGANICS TRAFFIC REPORT

Sample Number: BK 268

① Case Number: 7459

Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)

✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)

___ Water
✓ Soil/Sediment

④ Ship To: York Laboratories, 200 Monroe Turnpike, Monroe, CT 06468

Attn: John Cobek

Transfer Ship To:

⑤ Regional Office: FIT 2

Sampling Personnel: Randy Rice (Name)

(201) 225-6160 (Phone)

Sampling Date: (Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume	Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	ok - no Tags
Soil/Sediment (VOA)	1	120 ml.	ok - No Tags
Other			

⑦ Shipping Information

Federal Express — Name of Carrier

6/16/87 — Date Shipped:

4486830655 — Airbill Number:

⑧ Sample Description

___ Surface Water ___ Mixed Media
___ Ground Water ✓ Solids
___ Leachate ___ Other (specify) ___

⑨ Sample Location

SED-1

MATCHES INORGANIC SAMPLE MBK 536

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

R-357

LAB FILE COPY

Sample Number
BK268

Organics Analysis Data Sheet
(Page 1)

0 0328

Laboratory Name: YORK
Lab Sample ID No: 1086005
Sample Matrix: SOIL
Data Release Authorized By: [signature]

Case No: 7495
QC Report No:
Contract No: 68-0-7157
Date Sample Received: 6·17·87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6·22·87
Date Analyzed: 6·22·87
Conc/Dil Factor: 1.0 pH 8.15
Percent Moisture: (Not Decanted) 3%

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	~~4B~~
67-64-1	Acetone	~~8B~~
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	~~5U~~
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	~~1B~~
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	0.6J
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	~~0.5JB~~
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
108-10-1	4-Methyl-2-Pentanone	10U
591-78-6	2-Hexanone	10U
127-18-4	Tetrachloroethene	5U
79-34-5	1, 1, 2, 2-Tetrachloroethane	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R-358

.y Name: York Labs

.o: EPA 7495

Sample Number
BK268

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

ate Extracted/Prepared: 6-22-87

Date Analyzed: 07-03-87

onc/Dil Factor: 1.0

ercent Moisture (Decanted) 2%

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
8-95-2	Phenol	330u
11-44-4	bis(-2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
1-73-1	1, 3-Dichlorobenzene	
06-46-7	1, 4-Dichlorobenzene	
00-51-6	Benzyl Alcohol	
50-1	1, 2-Dichlorobenzene	
-48-7	2-Methylphenol	
9638-32-9	bis(2-chloroisopropyl)Ether	
-44-5	4-Methylphenol	
1-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
95-3	Nitrobenzene	
59-1	Isophorone	
8-75-5	2-Nitrophenol	
-67-9	2, 4-Dimethylphenol	
85-0	Benzoic Acid	1600u
11-91-1	bis(-2-Chloroethoxy)Methane	330u
83-2	2, 4-Dichlorophenol	
82-1	1, 2, 4-Trichlorobenzene	
-20-3	Naphthalene	
47-8	4-Chloroaniline	
8-3	Hexachlorobutadiene	
-50-7	4-Chloro-3-Methylphenol	
7-6	2-Methylnaphthalene	
7-4	Hexachlorocyclopentadiene	
6-2	2, 4, 6-Trichlorophenol	
-4	2, 4, 5-Trichlorophenol	1600u
8-7	2-Chloronaphthalene	330u
4-4	2-Nitroaniline	1600u
1-3	Dimethyl Phthalate	330u
6-8	Acenaphthylene	330u
9-2	3-Nitroaniline	1600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	330u
51-28-5	2, 4-Dinitrophenol	1600u
100-02-7	4-Nitrophenol	1600u
132-64-9	Dibenzofuran	330u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1600u
534-52-1	4, 6-Dinitro-2-Methylphenol	1600u
86-30-6	N-Nitrosodiphenylamine (1)	330u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1600u
85-01-8	Phenanthrene	330u
120-12-7	Anthracene	330u
84-74-2	Di-n-Butylphthalate	71J
206-44-0	Fluoranthene	27J
129-00-0	Pyrene	24J
85-68-7	Butylbenzylphthalate	49J
91-94-1	3, 3'-Dichlorobenzidine	660u
56-55-3	Benzo(a)Anthracene	330u
117-81-7	bis(2-Ethylhexyl)Phthalate	280J
218-01-9	Chrysene	330u
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/25 R-359

Laboratory Name: York Labs

Case No: 7495

Sample Number: BK 268

0 0330

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 6/22/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 3.59

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	8.0u
58-89-9	Gamma-BHC (Lindane)	8.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	8.0u
1024-57-3	Heptachlor Epoxide	8.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	16.u
72-55-9	4, 4'-DDE	~~4.7J~~
72-20-8	Endrin	16.u
33213-65-9	Endosulfan II	16.u
72-54-8	4, 4'-DDD	16.u
1031-07-8	Endosulfan Sulfate	16.u
50-29-3	4, 4'-DDT	16.u
72-43-5	Methoxychlor	80.u
53494-70-5	Endrin Ketone	16.u
57-74-9	Chlordane	80.u
8001-35-2	Toxaphene	160.u
12674-11-2	Aroclor-1016	80.u
11104-28-2	Aroclor-1221	80.u
11141-16-5	Aroclor-1232	80u
53469-21-9	Aroclor-1242	80.u
12672-29-6	Aroclor-1248	80u
11097-69-1	Aroclor-1254	170.
11096-82-5	Aroclor-1260	160.u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30.01 V_t 20,000 V_i 2.0

R-360

Lab Name: YORK LABORATORIES

Case No: 7495

Sample Number: BK 268

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. N/A	NONE DETECTED	VOA	N/A	N/A
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Name: York Laboratories
EPA 7495

Sample Number
BK 268

0 0332

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
	UNKNOWN, C8-ALKENE/CYCLOALKANE	BNA	7.10	170
	UNKNOWN, C8-ALKENE/CYCLOALKANE		7.17	270
	UNKNOWN		7.58	5000
	ALDOL COND. PROD.		8.23	50000
	UNKNOWN, ALKANE		8.4539	260
	UNKNOWN, C9-ALKANE		8.45	350
	UNKNOWN, C9-ALKANE		8.55	1300
	UNKNOWN, C9-ALKANE		8.71	1800
	UNKNOWN, HYDROCARBON		9.68	1200
	UNKNOWN, C9-ALKANE		9.95	180
	UNKNOWN, HYDROCARBON		10.29	540
	UNKNOWN, HYDROCARBON		11.11	160
	UNKNOWN, C9-ALKANE		11.14	410
	UNKNOWN, ALKANE		33.27	390
	UNKNOWN, ALKANE		35.57	600

U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 • 703/557-2490 • FTS 557-2490

ORGANICS TRAFFIC REPORT

Sample Number
BK 272

① **Case Number:** 7459

Sample Site Name/Code:

② **SAMPLE CONCENTRATION** (Check One)

✓ Low Concentration
___ Medium Concentration

③ **SAMPLE MATRIX** (Check One)

___ Water
✓ Soil/Sediment

④ **Ship To:** 0 0657
York Laboratories
200 Monroe Tpk.
Monroe, CT 06468
Attn: John Culick

Transfer
Ship To:

⑤ **Regional Office:** FIT2

Sampling Personnel:
CANDY RICE
(Name)
(201) 548-4149
(Phone)

Sampling Date:
6/16/87 6/16/87
(Begin) (End)

⑥ **For each sample collected specify number of containers used and mark volume level on each bottle.**

	Number of Containers	Approximate Total Volume	⑪ Analysis Lab: Rec'd by: [illegible] Date Rec'd: 6/17/87 Sample Condition on Receipt (e.g., broken, no ice, Chain-of-Custody, etc.)
Water (Extractable)			
Water (VOA)			
Soil/Sediment (Extractable)	2	16 oz.	OK - No Tags
Soil/Sediment (VOA)	1	120 ml.	OK - No Tags
Other			

⑦ **Shipping Information**

Federal Express
Name of Carrier

Date Shipped:

4486830655
Airbill Number:

⑧ **Sample Description**

___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other (specify) _____

⑨ **Sample Location**

SED-2

MATCHES INORGANIC SAMPLE MSK 540

⑩ **Special Handling Instructions:**
(e.g., safety precautions, hazardous nature)

R-363

Sample Number
BK 272

U 0658

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: York
Lab Sample ID No: 1086009
Sample Matrix: Soil
Data Release Authorized By: [signature]

Case No: 7495
QC Report No:
Contract No: 68-01-7157
Date Sample Received: 6·17·87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6-23-87
Date Analyzed: 6·23·87
Conc/Dil Factor: 5.0 pH 6.75
Percent Moisture: (Not Decanted) 84%

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	50U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	99B
67-64-1	Acetone	1500B
75-15-0	Carbon Disulfide	27
75-35-4	1, 1-Dichloroethene	25U
75-34-3	1, 1-Dichloroethane	25U
156-60-5	Trans-1, 2-Dichloroethene	25U
67-66-3	Chloroform	160B
107-06-2	1, 2-Dichloroethane	25U
78-93-3	2-Butanone	50U
71-55-6	1, 1, 1-Trichloroethane	25U
56-23-5	Carbon Tetrachloride	25U
108-05-4	Vinyl Acetate	50U
75-27-4	Bromodichloromethane	25U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	25U
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	50U
75-25-2	Bromoform	25U
108-10-1	4-Methyl-2-Pentanone	50U
591-78-6	2-Hexanone	50U
127-18-4	Tetrachloroethene	35
79-34-5	1, 1, 2, 2-Tetrachloroethane	25U
108-88-3	Toluene	3000B
108-90-7	Chlorobenzene	25U
100-41-4	Ethylbenzene	860
100-42-5	Styrene	25U
	Total Xylenes	~~6100~~ 6200

SLP 7-7-87

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

R-364

atory Name: York Labs

se No: EPA 7495

Sample Number
BK 272

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

oncentration: Low Medium (Circle One)

ate Extracted/Prepared: 06-22-87

Date Analyzed: 07-14-87

onc/Dil Factor: 10.0

Percent Moisture (Decanted) 40%

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
08-95-2	Phenol	3300U
111-44-4	bis(-2-Chloroethyl)Ether	
-57-8	2-Chlorophenol	
1-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
0-51-6	Benzyl Alcohol	
-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
638-32-9	bis(2-chloroisopropyl)Ether	
6-44-5	4-Methylphenol	
21-64-7	N-Nitroso-Di-n-Propylamine	
-72-1	Hexachloroethane	
-95-3	Nitrobenzene	
-59-1	Isophorone	
75-5	2-Nitrophenol	
5-67-9	2, 4-Dimethylphenol	
-85-0	Benzoic Acid	16000U
-91-1	bis(-2-Chloroethoxy)Methane	3300U
-83-2	2, 4-Dichlorophenol	
-82-1	1, 2, 4-Trichlorobenzene	
20-3	Naphthalene	
-47-8	4-Chloroaniline	
68-3	Hexachlorobutadiene	
50-7	4-Chloro-3-Methylphenol	
57-6	2-Methylnaphthalene	
47-4	Hexachlorocyclopentadiene	
06-2	2, 4, 6-Trichlorophenol	
95-4	2, 4, 5-Trichlorophenol	16000U
58-7	2-Chloronaphthalene	3300U
74-4	2-Nitroaniline	16000U
-11-3	Dimethyl Phthalate	3300U
-96-8	Acenaphthylene	3300U
09-2	3-Nitroaniline	16000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	3300U
51-28-5	2, 4-Dinitrophenol	16000U
100-02-7	4-Nitrophenol	16000U
132-64-9	Dibenzofuran	3300U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	16000U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000U
86-30-6	N-Nitrosodiphenylamine (1)	3300U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	16000U
85-01-8	Phenanthrene	3300U
120-12-7	Anthracene	3300U
84-74-2	Di-n-Butylphthalate	58000
206-44-0	Fluoranthene	3300U
129-00-0	Pyrene	3300U
85-68-7	Butylbenzylphthalate	600J
91-94-1	3, 3'-Dichlorobenzidine	6600U
56-55-3	Benzo(a)Anthracene	3300U
117-81-7	bis(2-Ethylhexyl)Phthalate	840J
218-01-9	Chrysene	3300U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

9/95 R-365

0 0660

Laboratory Name: York Labs

Case No 7495

Sample Number BK 272

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6/22/87

Date Analyzed: 6/30/87

Conc/Dil Factor: 1.0

Percent Moisture (decanted) 81.53

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	8.0u
319-85-7	Beta-BHC	8.0u
319-86-8	Delta-BHC	8.0u
58-89-9	Gamma-BHC (Lindane)	8.0u
76-44-8	Heptachlor	8.0u
309-00-2	Aldrin	8.0u
1024-57-3	Heptachlor Epoxide	8.0u
959-98-8	Endosulfan I	8.0u
60-57-1	Dieldrin	16.u
72-55-9	4, 4'-DDE	16.u
72-20-8	Endrin	16.u
33213-65-9	Endosulfan II	16.u
72-54-8	4, 4'-DDD	16.u
1031-07-8	Endosulfan Sulfate	16.u
50-29-3	4, 4'-DDT	16.u
72-43-5	Methoxychlor	80.u
53494-70-5	Endrin Ketone	16.u
57-74-9	Chlordane	80.u
8001-35-2	Toxaphene	160.u
12674-11-2	Aroclor-1016	80.u
11104-28-2	Aroclor-1221	80.u
11141-16-5	Aroclor-1232	80u
53469-21-9	Aroclor-1242	80.u
12672-29-6	Aroclor-1248	80u
11097-69-1	Aroclor-1254	160.u
11096-82-5	Aroclor-1260	160.u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s 30.01 V_t 20,000 V_i 2.0

R-366

Laboratory Name: YORK LABORATORIES

Case No: 7485

Sample Number: BK 272

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 16022041	BICYCLO [3.1.1] HEPTANE, 6,6-DIMETHYL-3-METHYLENE	VOA	28.99	2200 J
2. 3548025	1,3,6-HEPTATRIENE, 2,5,5-TRIMETHYL		29.19	1100 J
3. 1195795	BICYCLO [2.2.1] HEPTANONE, 1,3,3-TRIMETHYL-		33.36	3800 J
4. 103651	PROPYL BENZENE		36.88	1100 J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: York Labs

Case No: EPA 7495

Sample Number: BK 272

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number min.	Estimated Concentration (ug/l or ug/kg)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11. 108872	METHYL CYCLOHEXANE	BNA	5.09	3900
12.	ALDOL COND. PROD.		7.24	3300
13.	ALDOL COND. PROD.		7.80	63000
14.	UNKNOWN, ALKANE		8.45	4500
15.			~~30.17~~	~~3700~~
16.	UNKNOWN		33.87	2600
17.	UNKNOWN		36.31	690000
18.	UNKNOWN		36.85	320000
19.	UNKNOWN		40.22	87000
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

R-368

ANALYTICAL DATA
NAME: ALSY MANUFACTURING
SAMPLING DATE: 6/16/87
CASE NUMBER: 7459

INORGANICS										
SAMPLE NUMBER	NYT7-GW1	NYT7-GW2	NYT7-BL1	NYT7-SW1	NYT7-S1	NYT7-S2	NYT7-S3	NYT7-S4	NYT7-SED1	NYT7-SED2
TRAFFIC REPORT NUMBER	MBJ 650	MBK 532	MBK 539	MBK 541	MBK 538	MBK 537	MBK 533	MBK 534	MBK 536	MBK 540
MATRIX	AQUEOUS	AQUEOUS	AQUEOUS	AQUEOUS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	ug/Kg	ug/Kg
Aluminum	353000	123000	[134]	464	Q	Q	Q	Q	Q	Q
Antimony								77.6		
Arsenic	185	302			7.38	8.38	35.3	201		
Barium	1950	2210			[11.0]		[69.0]			[50]
Beryllium	9 E	36 E								
Cadmium	33 E	135 E			[1.65]			17.1		
Calcium	55500	62400	[290]	17500	[1660]	[413]	3450	6260	421	71800
Chromium	152	530		12	8.81	14.3	16.0	69.6		
Cobalt	74	168					[10.5]			
Copper	200	1620		137	244	1100	37.6	29100	120	365
Iron	263000	1170000	290 E	Q	8050	6570	21300	32200	3870	3680
Lead	144	341		6.9	33.0	20.7	61.4	706	9.97	360
Magnesium	14300	24900	[530]	[1190]	[831]	[584]	[1830]	[3880]		[2380]
Manganese	14700	2700		42	89.2	82.1	306	266	17.0	61.8
Mercury	0.53	3.21					0.33	0.18		1.0
Nickel	190 E	2340 E			530	2060	[24.0]	50700	226	[97.1]
Potassium	19600 E	30900 E		[940]	[308]		[684]	[494]		
Selenium	Q	Q	Q	Q				7.56		
Silver							6.78			
Sodium	31100	73800		[1830]						
Thallium										
Tin								944 E		97.1 E
Vanadium	303	1330			[9.91]	[9.37]	33.3	58.5		
Zinc	356	971	[13]	195	76.5	225	56.7	17100	40.1	974
Cyanide	Q	Q	Q	Q	19.0	128		182	17.8	

NOTES TO INORGANICS DATA:

Blank space - compound analyzed for but not detected
Q - analysis did not pass EPA QA/QC requirements
[]- compound present below contract-specified detection limits, but above instrument detection limit
B - compound found in laboratory blank as well as the sample and indicates possible/probable blank contamination
E - value estimated due to laboratory interference
NR- analysis not required

R-369

PO Box 818, Alexandria, VA 22313 – 703/557-2490 • FTS 557-2490

INORGANICS TRAFFIC REPORT

MBK 532

000003

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

(4) Ship To:
Spectrix Corp.
3911 Fondren
Suite 100
Houston, Texas 77063
Attn: Ken Erondu

Transfer Ship To:

(5) Sampling Office: EIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: MEChung
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
✓ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other ___ (specify)
MATCHES ORGANIC SAMPLE NO. BK264

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
✓ Cyanide

GW-2

LAB COPY FOR RETURN TO SMO

R-370

P.O. Box 818, Alexandria, VA 22313 – 703/557-2490 · FTS 557-2490

INORGANICS TRAFFIC REPORT

Sample Number: MBK 533

000004

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
___ Water
✓ Soil/Sediment

(4) Ship To:
Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erandu

Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: MFCruz
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other ___ (specify)

MATCHES ORGANIC SAMPLE NO. BK 265

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
___ Cyanide

S-3

LAB COPY FOR RETURN TO SMO

12-371

PO Box 818, Alexandria, VA 22313 – 703/557-2490 · FTS 557-2490

INORGANICS TRAFFIC REPORT

MBK 534

000005

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
___ Water
✓ Soil/Sediment

(4) Ship To:
Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erondu

Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: McCrey
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other ___ (specify)

MATCHES ORGANIC SAMPLE NO. BK 266

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
___ Cyanide

S-4

LAB COPY FOR RETURN TO SMO

P.O. Box 818 Alexandria, VA 22313 – 703/557-2490 • FTS 557-2490

INORGANICS TRAFFIC REPORT

MBK 536

000000

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
___ Water
✓ Soil/Sediment

(4) Ship To: Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erondu
___ Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: MF Chu
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other ___ (specify)
MATCHES ORGANIC SAMPLE NO. BK268

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
___ Cyanide

SED-1

LAB COPY FOR RETURN TO SMO

T-272

SPECTRIX D.C.# 7459-02-02

P.O. Box 818, Alexandria, VA 22313 – 703/557-2490 • FTS 557-2490

INORGANICS TRAFFIC REPORT

Sample Number: MBK 538

000008

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
___ Water
✓ Soil/Sediment

(4) Ship To: Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erondu

Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: [signature]
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
✓ Other Sample to Spike MS/MSD (specify)
MATCHES ORGANIC SAMPLE NO. BK270

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
___ Cyanide

S-1

LAB COPY FOR RETURN TO SMO

P.O. Box 818, Alexandria, VA 22313—703/557-2490 · FTS · 557-2490

INORGANICS TRAFFIC REPORT

MBK 539

000009

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

(4) Ship To: Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erondu

Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) Randy Rice
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: MF Chang
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
✓ Other TRIP BLANK (specify)
MATCHES ORGANIC SAMPLE NO. BK 271

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
✓ Cyanide

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PO Box 818 Alexandria, VA 22313 – 703/557-2490 • FTS 557-2490

INORGANICS TRAFFIC REPORT

MBK 540

000010

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
___ Water
✓ Soil/Sediment

(4) Ship To: SPECTRIX CORP.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Elwood
Transfer
Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) RANDY RICE
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: MECraig
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
✓ Solids
___ Other ___ (specify)
MATCHES ORGANIC SAMPLE NO. BK 272

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
___ Cyanide

SED-2

LAB COPY FOR RETURN TO SMO

2-277

SPECTRIX D.C.# 7459-02-02

U.S. ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 818, Alexandria, VA 22313—703/557-2490 • FTS 557-2490

MBK 541

INORGANICS TRAFFIC REPORT

000011

① Case Number: 7459
Sample Site Name/Code:

② SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

④ Ship To: SPECTRIX CORP.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erondu

Transfer Ship To:

⑤ Sampling Office: FIT 2
Sampling Personnel:
(Name) RANDY RICE
(Phone) (201) ~~5~~ 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

⑥ Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

⑨ ANALYSIS LAB:
Recd by: MFCruz
Date Recd: 6-17-87

⑦ Sample Description: (Check One)
✓ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other ___ (specify)
MATCHES ORGANIC SAMPLE NO: BK 273

⑧ Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
✓ Cyanide

SW-1

⑩ Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc)

LAB COPY FOR RETURN TO SMO

R-378

PO Box 818, Alexandria, VA 22313 – 703 · 557-2490 · FTS 557-2490

INORGANICS TRAFFIC REPORT

Sample Number: MBJ 650

000012

SPECTRIX D.C.# 7459-02-02

(1) Case Number: 7459
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)
✓ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)
✓ Water
___ Soil/Sediment

(4) Ship To:
Spectrix Corp.
3911 Fondren
Suite 100
Houston, TX 77063
Attn: Ken Erendu

Transfer Ship To:

(5) Sampling Office: FIT 2
Sampling Personnel:
(Name) RANDY RICE
(Phone) (201) 225-6160
Sampling Date:
(Begin) 6/16/87 (End) 6/16/87

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 6/16/87
Airbill Number: 4486830644

(9) ANALYSIS LAB:
Recd by: McCrey
Date Recd: 6-17-87

(10) Sample Condition On Receipt:
(eg. broken, leakage, chain of custody, etc.)

(7) Sample Description: (Check One)
___ Surface Water
✓ Ground Water
___ Leachate
___ Mixed Media
___ Solids
✓ Other Sample to Spike MS/MSD (specify)

MATCHES ORGANIC SAMPLE NO. BJ850

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Total Metals
✓ Cyanide

GW-1

LAB COPY FOR RETURN TO SMO

R-379

CHECKLIST

✓ SECTION II

- ✓ Sample Summary Sheet
- ✓ Cover Page IADS
- ✓ Form I IADS
- ✓ QC Report Forms

SPECTRIX
SAMPLE SUMMARY SHEET

EPA Case # 7459

Spectrix Lab # 8706053

Doc. Con. # 7459 - 02 -07

Date 7-14-87

Lab. Sample No.	EPA Sample No.	DIGESTION				ANALYSES			
		HNO_3/H_2O_2	HNO_3/HCl	ICP	DATE REC'D	FURN.-AA	Hg	CN	% SOLIDS
01A, 01B	LCS	✓	✓	✓	6-17	✓	✓	✓	—
02A, 02B	MBJ650	✓	✓	✓		✓	✓	✓	✓
03A, 03B	✓ dup	✓	✓	✓		✓	✓	✓	✓
04A, 04B	✓ sp	✓	✓	✓		✓	✓	✓	—
05A, 05B	MBK532	✓	✓	✓		✓	✓	✓	—
06A, 06B	MBK539	✓	✓	✓		✓	✓	✓	—
07A, 07B	MBK541	✓	✓	✓		✓	✓	✓	—
08A, 08B	MBK538	✓	✓	✓		✓	✓	✓	✓
09A, 09B	✓ dup	✓	✓	✓		✓	✓	✓	✓
10A, 10B	✓ sp	✓	✓	✓		✓	✓	✓	—
11A, 11B	MBK533	✓	✓	✓		✓	✓	✓	✓
12A, 12B	MBK534	✓	✓	✓		✓	✓	✓	✓
13A, 13B	MBK536	✓	✓	✓		✓	✓	✓	✓
14A, 14B	MBK537	✓	✓	✓		✓	✓	✓	✓
15A, 15B	MBK540	✓	✓	✓		✓	✓	✓	✓
BIK	—	✓	✓	✓	—	✓	✓	✓	—
BIK	—	✓	✓	✓	—	✓	—	—	—
Std	—	✓	✓	✓	—	✓	✓	✓	—
COMPL. DATE:		6-23	6-23	7-16	—	6-26	6-19	7-6	6-23
ANALYST:		CR	CR	HB CR	—	DCA/HT	DCA	HT	CR

CDF

R-381

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Spectrix D.C. Control# 7459 - 02 - 0

Date 7-14-87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name SPECTRIX. HOUSTON

Case No. 7459

SOW No. 784

Q.C. Report No. 118

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MBJ 650	8706053-02A,02B	MBK 533	8706053-11A,11B
" dup	" 03A,03B	" 534	" - 12A,12B
" Sp	" 04A 04B	" 536	" - 13A,13B
MBK 532	" 05A,05B	" 537	" - 14A,14B
MBK 539	" 06A,06B	" 540	" - 15A,15B
MBK 541	" 07A,07B		
MBK 538	" 08A,08B		
" dup	" 09A,09B		
" Sp	" 10A,10B		

Comments: The flag "A" in this data package is used to identify an estimated value resulting from several duplicates that fail to meet the ±20% criteria and "Z" denotes analysis using GFAA, Zeeman background correction.

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

R-382

000015

Spectrix D.C. Control # 7459-02-

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 318 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBJ 650

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-02A,02B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	353000	P	13.	Magnesium	14300	P
2.	Antimony	50u	P	14.	Manganese	14700	P
3.	Arsenic	185 g	F	15.	Mercury	0.53	CV
4.	Barium	1950	P	16.	Nickel	190 J	P
5.	Beryllium	9 J	P	17.	Potassium	19600 J	P
6.	Cadmium	33 RJ	P	18.	Selenium	~~5u~~ R	FZ
7.	Calcium	55500	P	19.	Silver	8u R	P
8.	Chromium	152	P	20.	Sodium	31,100	P
9.	Cobalt	74	P	21.	Thallium	10u	FZ
10.	Copper	200	P	22.	Tin	29u R	P
11.	Iron	263000	P	23.	Vanadium	303	P
12.	Lead	144	FZ	24.	Zinc	356	P
	Cyanide	~~10u~~	Color		Percent Solids (%)	—	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. Eng

R-383

Spectrix D.C. Control # 7459-02-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK532

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-05A,05B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	123000	P	13.	Magnesium	24900	P
2.	Antimony	50u	P	14.	Manganese	2700	P
3.	Arsenic	302	F	15.	Mercury	3.21	CV
4.	Barium	2210	P	16.	Nickel	2340 J	P
5.	Beryllium	36 J	P	17.	Potassium	30900 J	P
6.	Cadmium	135 R J	P	18.	Selenium	~~5u~~ R	FZ
7.	Calcium	62400	P	19.	Silver	8u R	P
8.	Chromium	530	P	20.	Sodium	73800	P
9.	Cobalt	168	P	21.	Thallium	10u	FZ
10.	Copper	1620	P	22.	Tin	29u R	P
11.	Iron	1,170,000	P	23.	Vanadium	1330	P
12.	Lead	341	FZ	24.	Zinc	971	P

Cyanide ~~10u~~ Color Percent Solids (%) —

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. Emond

R-384

000017

Spectrix D.C. Control # 7459-02-

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 318 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK539

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-06A,06B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[134]	P	13.	Magnesium	[530]	P
2.	Antimony	50u	P	14.	Manganese	4u	P
3.	Arsenic	10u	F	15.	Mercury	02u	CV
4.	Barium	16u	P	16.	Nickel	25u J	P
5.	Beryllium	2u J	P	17.	Potassium	350u J	P
6.	Cadmium	3u R J	P	18.	Selenium	~~5u~~ R	FZ
7.	Calcium	[290]	P	19.	Silver	8u R	P
8.	Chromium	7u	P	20.	Sodium	190u	P
9.	Cobalt	17u	P	21.	Thallium	10u	FZ
10.	Copper	15u	P	22.	Tin	29u R	P
11.	Iron	290 A	P	23.	Vanadium	14u	P
12.	Lead	5u	FZ	24.	Zinc	[13]	P

Cyanide ~~10u~~ Color Percent Solids (%) ____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: The flag "A" for Fe indicates that the value is an estimate from several duplicate analyses

Lab Manager Ken H. [illegible]

R-389

000018

Spectrix D.C. Control # 7459-02-1

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 318 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK541

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-07A,07B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	464	P	13.	Magnesium	[1190]	P
2.	Antimony	50u	P	14.	Manganese	42	P
3.	Arsenic	10u	F	15.	Mercury	0.2u	CV
4.	Barium	16u	P	16.	Nickel	25u J	P
5.	Beryllium	2u J	P	17.	Potassium	[940]	P
6.	Cadmium	3u R	P J	18.	Selenium	~~5u~~ R	F Z
7.	Calcium	17500	P	19.	Silver	8u R	P
8.	Chromium	12	P	20.	Sodium	[1830]	P
9.	Cobalt	17u	P	21.	Thallium	10u	F Z
10.	Copper	137	P	22.	Tin	29u R	P
11.	Iron	~~430~~	P	23.	Vanadium	14u	P
12.	Lead	6.9	F Z	24.	Zinc	195	P
Cyanide		~~10u~~ Color		Percent Solids (%)		—	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. [illegible]

R-386

000019

Spectrix D.C. Control # 7459-02-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 318 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK 538

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-08A,08B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	~~5400~~	P	13.	Magnesium	[831]	P
2.	Antimony	28u R	P	14.	Manganese	89.2	P
3.	Arsenic	7.38	F	15.	Mercury	0.11u	CV
4.	Barium	[11.0]	P	16.	Nickel	530	P
5.	Beryllium	1.1u	P	17.	Potassium	[308]	P
6.	Cadmium	[1.65]	P	18.	Selenium	2.8u R	FZ
7.	Calcium	[1660]	P	19.	Silver	4.4u	P
8.	Chromium	8.81	P	20.	Sodium	100u	P
9.	Cobalt	9.4u	P	21.	Thallium	5.5u	FZ
10.	Copper	244	P	22.	Tin	15u J	P
11.	Iron	8050	P	23.	Vanadium	[9.91]	P
12.	Lead	33.0 R	FZ	24.	Zinc	76.5	P
Cyanide		19.0	Color	Percent Solids (%)		90.8	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Ken U. [illegible]

R-387

Spectrix Q.C. Control # 7459-02-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK 537

Date 7-14-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053 - 14A,14B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	~~4520~~	P	13.	Magnesium	[584]	P
2.	Antimony	28u R	P	14.	Manganese	82.1	P
3.	Arsenic	8.38	F	15.	Mercury	0.11u	CV
4.	Barium	8.8u	P	16.	Nickel	2060	P
5.	Beryllium	1.1u	P	17.	Potassium	200u	P
6.	Cadmium	1.6u	P	18.	Selenium	2.8u R	FZ
7.	Calcium	[413]	P	19.	Silver	4.4u	P
8.	Chromium	14.3	P	20.	Sodium	100u	P
9.	Cobalt	9.4u	P	21.	Thallium	5.5u	FZ
10.	Copper	1100	P	22.	Tin	15u	JP
11.	Iron	6570	P	23.	Vanadium	[9.37]	P
12.	Lead	20.7 R	FZ	24.	Zinc	225	P
Cyanide		128	Color	Percent Solids (%)		90.7	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Ken U. Ed

R-388

Spectrix Q.C. Control # 7459-02-06 26

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK 533

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-11A,11B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	~~18500~~	P	13.	Magnesium	[1830]	P
2.	Antimony	31u R	P	14.	Manganese	306	P
3.	Arsenic	35.3 S	F	15.	Mercury	0.33	CV
4.	Barium	[69.0]	P	16.	Nickel	[24.0]	P
5.	Beryllium	1.2u	P	17.	Potassium	[684]	P
6.	Cadmium	1.8u	P	18.	Selenium	3.1u R	FZ
7.	Calcium	3450	P	19.	Silver	6.78	P
8.	Chromium	16.0	P	20.	Sodium	120u	P
9.	Cobalt	[10.5]	P	21.	Thallium	6.2u	FZ
10.	Copper	37.6	P	22.	Tin	17u J	P
11.	Iron	21300	P	23.	Vanadium	33.3	P
12.	Lead	61.4 S R	FZ	24.	Zinc	56.7	P

Cyanide 6.2u Color Percent Solids (%) 81.1

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. [illegible]

R-389

Spectrix D.C. Control # 7459-02-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 318 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MBK 540

Date 7-14-87

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX-Houston CASE NO. 7459

SOW NO. 784

LAB SAMPLE ID. NO. 87-06-053-15A,15B QC REPORT NO. 118

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	~~1920~~	P	13.	Magnesium	[2380]	P
2.	Antimony	150u R	P	14.	Manganese	61.8	P
3.	Arsenic	9u	F	15.	Mercury	1.0 ~~1.04~~ ~~Kes~~	CV
4.	Barium	[50]	P	16.	Nickel	[97.1]	P
5.	Beryllium	5.9u	P	17.	Potassium	1100u	P
6.	Cadmium	8.8u	P	18.	Selenium	15u R	FZ
7.	Calcium	71800	P	19.	Silver	24u	P
8.	Chromium	21u	P	20.	Sodium	560u	P
9.	Cobalt	50u	P	21.	Thallium	29u	FZ
10.	Copper	365	P	22.	Tin	97.1 J	P
11.	Iron	3680	P	23.	Vanadium	50u	P
12.	Lead	360 +	RFZ	24.	Zinc	974	P
	Cyanide	29u	Color		Percent Solids (%)	17.0	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. [signature]

R-392

REFERENCE NO. 12

ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-079

Date: September 10, 1992 Time: 4:00 AM [] PM []

Outgoing Call

To: Mr. Charles Klass (800)-645-4172 Telephone No.

Affiliation: Alsy Manufacturing Corp.

Malcolm Pirnie Staff: Lisa Szegedi (609) 860-0100 Telephone No.

Summary of Conversation:

Mr. Klass informed me that Alsy no longer operates out of the property located at 270 Duffy Ave., Hicksville, New York. They now operate out of Pennsylvania. The phone number for the Surrey Corp. is (516)-364-5000.

REFERENCE NO. 13

MALCOLM PIRNIE, INC. **PROJECT NOTES**

To: File **Date:** August 14, 1992

From: Lisa Szegedi **Project #:** 8003-079

Subject: Drinking Water Sources **Site Name:** Alsy Manufacturing

Listed below are the towns located within 4 miles of the site. Included with each town is the computations used to apportion out groundwater usage to each distance ring.

1) **Village of Old Westbury**-The Village of Old Westbury obtains their drinking water from 4 public supply wells. The water from these wells is blended and sent out. The Village also owns one additional well, however this well is not being used. The total service population is approximately 3200 people. 3 of the wells are located in the 3-4 mile ring, and 1 well is located outside of 4 miles. All wells pump at approximately the same rate. All wells tap the Magothy aquifer.

3200/4 = 800 people per well. 800 X 3 = 2400 people in the 3-4 mile ring.

2) **Westbury**-Westbury obtains their drinking water from 11 public supply wells. The water from all the wells is blended. The total service population is approximately 20500 people. 2 wells are located in the 1/2-1 mile ring, 4 wells are located in the 1-2 mile ring, 3 wells are located in the 2-3 mile ring, and 2 wells are located in the 3-4 mile ring. All wells pump at approximately the same rate. 10 of the wells tap the Magothy aquifer, and one well (located in the 1-2 mile ring) taps the Llyod aquifer.

20500\11 = 1864 people per well.

<u>Magothy aquifer</u>

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	2 wells X 1864 = 3728 people
1-2 mile ring	3 wells X 1864 = 5592 people
2-3 mile ring	3 wells X 1864 = 5592 people
3-4 mile ring	2 wells X 1864 = 3728 people

<u>Lloyd aquifer</u>

1-2 mile ring	1 well X 1864 = 1864 people

MALCOLM PIRNIE, INC. **PROJECT NOTES**

To: File **Date:** August 14, 1992

From: Lisa Szegedi **Project #:** 8003-079

Subject: Drinking Water Sources **Site Name:** Alsy Manufacturing

(con't)

3) **Plainview**-Plainview obtains their drinking water from 11 public supply wells. The water from all the wells is blended. The total service population is approximately 37000 people. 2 wells are located in the 2-3 mile ring, 2 wells are located in the 3-4 mile ring, and the remaining wells are located outside of 4 miles. All wells pump at approximately the same rate. All of the wells tap the Magothy aquifer.

37000/11 = 3364 people per well

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	0 people
1-2 mile ring	0 people
2-3 mile ring	2 wells X 3364 = 6728 people
3-4 mile ring	2 wells X 3364 = 6728 people

4) **Bethpage**-Bethpage obtains their drinking water from 9 public supply wells. The water from all wells is blended. The total number of service connections is 8339. 6 of the wells are located in the 3-4 mile ring, and the remaining wells are located outside of 4 miles. All wells pump at approximately the same rate. All wells tap the Magothy aquifer.

Total population served = 8339 X 3.04 (average population per household in Suffolk County) = 25350/9 = 2817 people per well

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	0 people
1-2 mile ring	0 people
2-3 mile ring	0 people
3-4 mile ring	6 wells X 2817 = 16902 people

MALCOLM PIRNIE, INC. **PROJECT NOTES**

To: File **Date:** August 14, 1992

From: Lisa Szegedi **Project #:** 8003-079

Subject: Drinking Water Sources **Site Name:** Alsy Manufacturing

(con't)

5) **Hicksville**-Hicksville obtains their drinking water from 18 public supply wells. The water from all the wells is blended. The total service population is approximately 47810 people. 3 wells are located in the 1/2-1 mile ring, 13 wells are located in the 1-2 mile ring, and 2 wells are located in the 2-3 mile ring. All wells pump at approximately the same rate. All wells tap the Magothy aquifer.

47810/18 = 2656 people per well.

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	3 wells X 2656 = 7968 people
1-2 mile ring	13 wells X 2656 = 34528 people
2-3 mile ring	2 wells X 2656 = 5312 people
3-4 mile ring	0 people

6) **Town of Hempstead**-The Town of Hempstead obtains their drinking water from 37 public supply wells. The water from all the wells is blended. The total service population is approximately 37000 people. 2 of the wells and located in the 1-2 mile ring, 3 of the wells are located in the 3-4 mile ring, and the remaining wells are located outside of 4 miles. All wells pump at approximately the same rate. All of the wells tap the Magothy aquifer.

37000/37 = 1000 people per well.

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	0 people
1-2 mile ring	2 wells X 1000 = 2000 people
2-3 mile ring	0 people
3-4 mile ring	3 wells X 1000 = 3000 people

MALCOLM PIRNIE, INC. **PROJECT NOTES**

To: File **Date:** August 14, 1992

From: Lisa Szegedi **Project #:** 8003-079

Subject: Drinking Water Sources **Site Name:** Alsy Manufacturing

(con't)

7) **Levittown Water District**-The Levittown Water District obtains their drinking water from 9 public supply wells. The water from all the wells is blended. The total service population is approximately 45000 people. 4 wells are located in the 2-3 mile ring, 2 wells are located in the 3-4 mile ring, and the remaining wells are located outside of 4 miles. The wells pumpage, and the corresponding apportionment calculations are shown below. All wells tap the Magothy aquifer.

Well #	distance ring	pumpage(in millions)	% of total	people served
2A	2-3 mile	150 gpy	150/2057 = 7%	45000 X .07 = 3150
9	2-3 mile	468 gpy	468/2057 = 23%	45000 X .23 = 10350
6A	2-3 mile	119 gpy	119/2057 = 6%	45000 X .06 = 2700
5A	2-3 mile	247 gpy	247/2057 = 12%	45000 X .12 = 5400
7A	3-4 mile	169 gpy	169/2057 = 8%	45000 X .08 = 3600
8A	3-4 mile	362 gpy	362/2057 = 18%	45000 X .18 = 8100
12	outside of 4 miles	177 gpy	177/2057 = 9%	45000 X .09 = 4050
13	outside of 4 miles	238 gpy	238/2057 = 12%	45000 X .12 = 5400
14	outside of 4 miles	127 gpy	127/2057 = 6%	45000 X .06 = 2700
Total		2057 gpy		

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	0 people
1-2 mile ring	0 people
2-3 mile ring	3150 + 10350 + 2700 + 5400 = 21600 people
3-4 mile ring	3600 + 8100 = 11700 people

MALCOLM PIRNIE, INC. **PROJECT NOTES**

To: File	**Date:** August 14, 1992
From: Lisa Szegedi	**Project #:** 8003-079
Subject: Drinking Water Sources	**Site Name:** Alsy Manufacturing

(con't)

8) **Jericho**-Jericho obtains their drinking water from 18 public supply wells. The water from all the wells is blended. The total service population is approximately 60000 people. 1 of the wells is located in the 1-2 mile ring, 3 of the wells are located in the 2-3 mile ring, and the remaining wells are outside of 4 miles. All wells pump at approximately the same rate. All of the wells tap the Magothy aquifer.

60000/18 = 3333 people per well.

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	0 people
1-2 mile ring	1 well X 3333 = 3333 people
2-3 mile ring	3 wells X 3333 = 9999 people
3-4 mile ring	0 people

Summary

Magothy aquifer

0-1/4 mile ring	0 people
1/4-1/2 mile ring	0 people
1/2-1 mile ring	3728 + 7968 = 11696 people
1-2 mile ring	5592 + 34528 + 2000 + 3333 = 45453 people
2-3 mile ring	5592 + 6728 +5312 + 21600 + 9999 = 49231
3-4 mile ring	2400 + 3728 + 6728 + 16902 + 3000 + 11700 = 44458 people

Lloyd aquifer

0-1/4 mile ring	0 people	1-2 mile ring	1864 people
1/4-1/2 mile ring	0 people	2-3 mile ring	0 people
1/2-1 mile ring	0 people	3-4 mile ring	0 people

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ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-07-9

Date: 14 AUGUST 1992 Time: 9:35 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: MR. JOHN INGRAM 516-626-0800 Telephone No.

Affiliation: SUPERINTENDANT, VILLAGE OF OLD WESTBURY WATER

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

MR. INGRAM CONFIRMED LOCATION AND INFORMATION AS PER ATTACHMENTS

ADDITIONAL WELLS LOCATED

- OWB 2 - GLENN COVE RD ADJACENT TO EXPRESSWAY (HARRYS
  610 FT - MAGOTHY
- OWB 3 - POST RD & PHEASANT RUN RD
  500 FT MAGOTHY

- All wells PUMP APPROX 1000 GPM

- NOTE WELL NO 1 IS NOT IN SERVICE, CLOSED FOR MODIFICATION

- SERVING APPROX 3200 PERSONS

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Village of Old Westbury

INCORPORATED MAY 10, 1924
1 STORE HILL ROAD
P.O. BOX 290
OLD WESTBURY, N.Y. 11568
(516) 626-0800

MAYOR
GILBERT M COLOMBO, JR.
TRUSTEES
E. A. SIMPSON
R. GACHOT
S. WEINSTEIN
H. BLAU

VILLAGE CLERK - T
R. BUSCAR
SUPT PUBLIC
A. J. LIND
VILLAGE JU
W. F. RUE

RECEIVED 10:00
APR 06 REC'D
NUS CORPORATION
REGION II
SENT TO _____

April 4, 1988

Edward L. Leonard
Nus Corporation
1090 King Georges Post Road
Suite 1103
Edison, New Jersey 08837

Dear Mr. Leonard:

As requested, enclosed please find your area of interest map showing location and number of our wells and the outline of our water district within the area.

The following is the additional information on well depth and formation.

Well #1 N152
Depth of screen 478'
Formation magothy

Well #4 N7549
Depth of screen 499'
Formation magothy

Well #5 N8658
Depth of screen 610'
Formation magothy

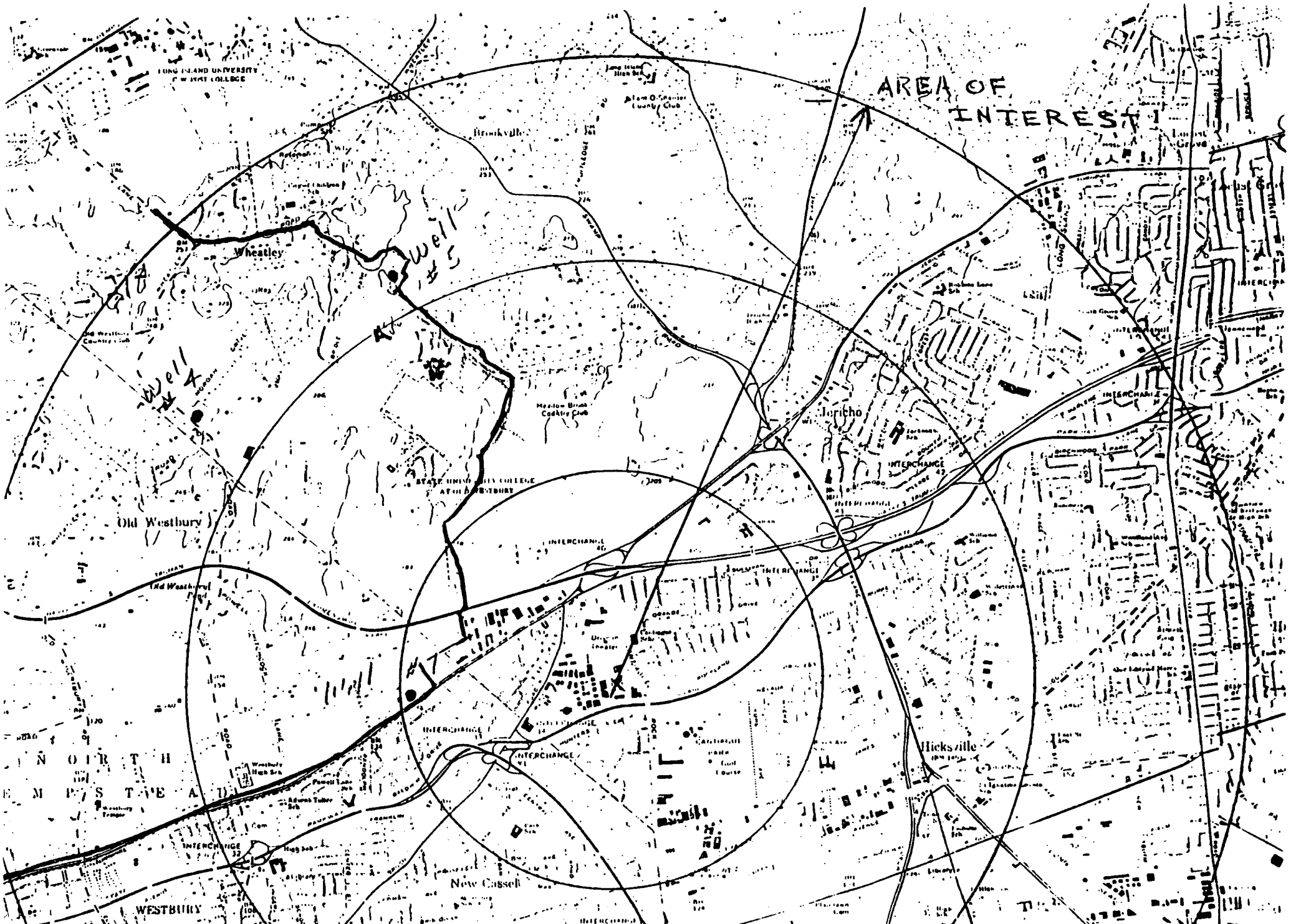
Village population served by these three wells is approximately 3200.

Blue lines on attached map indicates the boundary line of our water district within your area of interest.

Very truly yours,

Arthur J. Lindon
Supt. Public Works

AJL:bc


AREA OF INTEREST
Well #5
Well #4
Well #7
Wheatley
Brookville
Old Westbury
Jericho
Hicksville
New Cassel
WESTBURY
LONG ISLAND UNIVERSITY
C W POST COLLEGE
STATE UNIVERSITY COLLEGE AT OLD WESTBURY
Meadow Brook Country Club
INTERCHANGE
LONG ISLAND

0007C

ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-07-9

Date: 12 Aug 92 Time: _____ [ ] AM [ ] PM

[ ] Incoming Call From: _____
Telephone No.
Affiliation: _____

[✓] Outgoing Call To: MARIE HADSKY 516-333-0427
Telephone No.
Affiliation: CLERK - WESTBURY WATER DEPT

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

- MS HADSKY CONFIRMED WELL LOCATIONS AS PER ATTACHMENTS
- PUMPAGE RATES APPROX 1000 GPM ON ALL WELLS
- CURRENTLY SERVING APPROX. 20,500

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WELL NO 12
WELL NO 12A
WELL NO 14
WELL NO 10
WELL NO 16
WELL NO 9
WELL NO 7
15

02-5932

Westbury Water District

160 Drexel Avenue Westbury, L.I., N.Y. 11590
516-333-0427

DONALD A. CROUCHLEY, Chairman
FRANK J. IADEVIA, Secretary
ALFRED ARDIS, Treasurer
ITALO J. VACCHIO, Superintendent

March 21, 1988

NUS Corporation
1090 King Georges Post Road
Suite 1103
Edison, New Jersey 08837

Attention: E. L. Leonard

Dear Mr. Leonard:

In response to your letter of March 17, 1988, (copy attached), please find below the requested information:

1. See attached map.

2.

STATE WELL NO.	W.H.D. WELL NO.	DEPTH	AQUIFERS
N-101	6	341'	Magothy
N-7785	7	400'	Magothy
N-2602	9	805'	Lloyd
N-5007	10	560'	Magothy
N-5654	11	561'	Magothy
N-5655	12	260'	Magothy
N-6819	12A	270'	Magothy
N-7353	14	390'	Magothy
N-8007	15	564'	Magothy
N-8497	16	544'	Magothy
N-104510	17	600'	Magothy

4. Population estimated to be 24,000. All wells are interconnecte

5. None known.

6.
   1. Carle Place Water District
   2. Town of Hempstead Water District
   3. Inc. Village of Old Westbury
   4. Hicksville Water District
   5. Jericho Water District

Should you require any other information, please contact me at the above address.

Very truly yours,

WESTBURY WATER DISTRICT

Italo Vacchio

Italo J. Vacchio
Superintendent

IJV/mh
Enc.

0001C

ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

ALSEY

File No. 8003-07-9

Date: 11 AUGUST 1992 Time: 1045 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: KEN CLAUS 516-931-6469 Telephone No.

Affiliation: SUPERINTENDANT, PLAINVIEW WATER DEPT.

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

MR CLAUS LOCATED THE FOLLOWING WELLS FOR THE PLAINVIEW DIST.

- PLANT NO 3 - NORTH OF FERN PLACE SCHOOL ON ORANGE AVE
  - WELL 3-1, 1000 GPM MAGOTHY AQUIFER
  - 3-2, 1000 GPM " "
- PLANT NO 4 - SOUTH OF SOUTHERN PKWY & JOHN ST.
  - WELL 4-1, 1200 GPM, MAGOTHY AQUIFER
  - 4-2, 1200 GPM, " "
- PLANT NO 1 - MANNETTO HILL & OLD COUNTRY RD (EAST)
  - WELL 1-1, 1200 GPM, MAGOTHY AQUIFER
  - 1-2, 1200 GPM, " "
- PLANT NO 2 - NORTH OF MANNETTO HILLS ON DONNA DRIVE
  - WELL 2-1, 1000 GPM, MAGOTHY AQUIFER
- PLANT NO 5 - MANNETTO HILL RD / HAYPATH RD (OLD BETHPAGE)
  - 5-1, 1000 GPM, MAGOTHY AQUIFER
  - 5-2, 1400 GPM, " "
  - 5-3, 1200 GPM, " "
  - 5-4, 1200 GPM, " "
- 11 wells TOTAL SERVING APPROX 37,000 PERSONS
- All wells ARE BLENDED

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ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

ALSEY

File No. 8003-07-9

Date: 12 AUG 1992 Time: 9:32 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: DOROTHY ARMBRUSTER 516-931-0093 Telephone No.

Affiliation: BETHPAGE WATER DIST

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

- MS ARMBRUSTER CONFIRMED LOCATIONS/OPERATION AS PER ATTACHMENT
- WELLS ARE INTERCONNECTED & BLENDED, MAGOTHY FORMER
- CURRENTLY SERVING APPROXIMATELY 8,339 ACCOUNTS
- BASED UPON CURRENT POPULATION IN SUFFOLK COUNTY OF 3.04 PERSONS PER HOUSEHOLD

3.04 x 8,339 = 25,350 PERSONS
÷ 9 WELLS = 2817 PERSONS PER WELL

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516-931-0093

BETHPAGE WATER DISTRICT (07) WE1-[illegible] TOB

25 Adams Avenue
Bethpage, NY 11714

Official: Sal Greco, Jr. Chairman
Bd. of Commissioners

Consult: H2M

Superintendent: Ron Krumholz 3.04
CUSTOMERS - 8,339 ACCNTS
Population: 33 650 (1981)

Lab: H2M
DOROTHY ARMBRUSTER

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda(#BDG-1)

WELLS (9)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Broadway	Bethpage	5-1	8004	740	M	1400
N/S Park La	Bethpage	6-1	3876	386	M	1400
	Bethpage	6-2	8941	770	M	1400
E/S Adams Avenue	Bethpage	7A	8767	640	M	1400
	Bethpage	8A	9768	675	M	1400
	Bethpage	9	6078	275	M	1400
Sophia St	Bethpage	10	6915	608	M	1400
	Bethpage	11	6912	611	M	1400
Broadway	Bethpage	[illegible]	[illegible]	[illegible]	M	[illegible]

STORAGE TANKS(2)

Address	Village	Capacity (MG)	Type
Adams Avenue	Bethpage	1.25	Elevated
Sophia Street	Bethpage	1.50	Ground

J
K
LLE
8778
8779
8767
8768
6078
17
21
(Main)
3552
8526
3488
8525
GRUMMAN
AIRPORT
BETHPAG
6915
6916
22
2076
3194
3618
26
8009
HEMPSTEAD
PLAINEDGE
18
5
J
K

Table 6. Household, Family, and Group Quarters Characteristics: 1990

(For definitions of terms and meanings of symbols, see text)

State County Place and [In Selected States] County Subdivision	Persons in households	All households	Family households: Total	Family households: Married-couple family	Family households: Female householder, no husband present	Nonfamily households: Total	Nonfamily households: Householder living alone: Total	Nonfamily households: Householder living alone: 65 years and over: Total	Nonfamily households: Householder living alone: 65 years and over: Female	Persons per— Household	Persons per— Family	Persons in group quarters: Total	Persons in group quarters: Institutionalized persons	Persons in group quarters: Other persons in group quarters
The State	17 445 190	6 639 322	4 489 312	3 315 845	919 266	2 150 010	1 806 263	700 016	544 755	2.63	3.22	545 265	267 122	278 1
COUNTY														
Albany County	278 399	115 824	71 455	54 534	13 355	44 369	35 050	13 559	10 777	2.40	3.04	14 195	4 286	9 9
Allegany County	45 639	17 011	12 318	10 231	1 466	4 693	3 943	1 927	1 478	2.68	3.15	4 831	398	4 4
Bronx County	1 163 368	424 112	288 609	146 234	118 610	135 503	119 218	46 431	35 780	2.74	3.35	40 421	28 534	11 8
Broome County	204 344	81 843	54 819	44 163	8 183	27 024	22 037	9 065	7 203	2.50	3.05	7 816	3 420	4 3
Cattaraugus County	80 833	30 456	21 657	17 395	3 228	8 799	7 543	3 651	2 789	2.65	3.18	3 401	1 035	2 3
Cayuga County	77 968	29 075	20 927	16 660	3 127	8 148	6 874	3 418	2 680	2.68	3.19	4 345	3 955	3
Chautauqua County	136 558	53 696	37 203	29 942	5 506	16 493	14 035	6 849	5 459	2.54	3.07	5 337	2 557	2 7
Chemung County	90 460	35 275	24 808	19 646	4 058	10 467	8 992	4 387	3 505	2.56	3.08	4 735	3 788	
Chenango County	50 896	19 141	13 821	11 438	1 670	5 320	4 451	2 085	1 602	2.66	3.14	872	840	
Clinton County	77 971	29 123	20 839	17 279	2 594	8 284	6 429	2 626	2 111	2.68	3.14	7 998	4 282	3
Columbia County	60 884	23 696	16 882	13 658	2 339	6 814	5 689	2 759	2 078	2.57	3.04	2 098	1 825	
Cortland County	45 664	17 247	11 799	9 461	1 681	5 448	4 070	1 860	1 513	2.65	3.13	3 299	510	2
Delaware County	45 233	17 646	12 374	10 224	1 552	5 272	4 458	2 308	1 746	2.56	3.07	1 992	660	1
Dutchess County	240 984	89 567	64 757	53 635	8 353	24 810	19 884	7 705	6 051	2.69	3.18	18 478	11 475	7
Erie County	944 115	376 994	254 472	192 646	49 968	122 522	105 083	45 370	35 665	2.50	3.09	24 417	13 138	11
Essex County	34 824	13 721	9 498	7 805	1 204	4 223	3 520	1 682	1 280	2.54	3.07	2 328	2 223	
Franklin County	42 549	16 284	11 265	8 976	1 677	5 019	4 197	2 064	1 612	2.61	3.16	3 991	3 012	
Fulton County	53 276	20 995	14 602	11 601	2 242	6 393	5 412	2 894	2 281	2.54	3.05	915	700	
Genesee County	58 858	21 614	16 050	13 269	2 054	5 564	4 671	2 312	1 840	2.72	3.19	1 202	800	
Greene County	42 080	16 596	11 642	9 465	1 612	4 954	4 245	2 033	1 488	2.54	3.05	2 659	2 474	
Hamilton County	5 197	2 153	1 508	1 266	170	645	550	241	172	2.41	2.89	82	82	
Herkimer County	64 636	24 936	17 576	14 347	2 369	7 360	6 246	3 402	2 594	2.59	3.11	1 161	840	
Jefferson County	103 614	37 851	28 163	23 155	3 680	9 688	8 005	3 772	2 996	2.74	3.19	7 329	2 589	4
Kings County	2 266 401	828 199	555 284	335 295	177 871	272 915	236 977	92 972	71 504	2.74	3.40	34 263	16 651	17
Lewis County	26 475	9 253	7 056	5 985	744	2 197	1 889	964	728	2.86	3.32	321	307	
Livingston County	56 777	21 197	15 178	12 558	1 896	6 019	4 643	2 043	1 610	2.68	3.14	5 595	2 212	3
Madison County	64 006	23 567	17 162	14 137	2 176	6 405	5 050	2 326	1 808	2.72	3.17	5 114	776	4
Monroe County	691 387	271 944	182 813	140 622	34 008	89 131	71 166	25 702	20 400	2.54	3.11	22 581	8 405	14
Montgomery County	50 956	20 185	14 028	11 058	2 202	6 157	5 432	3 081	2 408	2.52	3.06	1 025	960	
Nassau County	1 266 740	431 515	344 502	286 638	43 950	87 013	73 804	35 544	28 221	2.94	3.30	20 608	9 799	10
New York County	1 428 973	716 422	301 041	187 016	92 055	415 381	348 134	87 139	64 439	1.99	2.99	58 563	13 988	44
Niagara County	216 912	84 809	59 732	47 221	9 822	25 077	22 119	10 080	7 797	2.56	3.10	3 844	2 358	1
Oneida County	236 328	92 562	63 735	50 430	10 385	28 827	24 950	11 640	9 110	2.55	3.12	14 508	9 522	4
Onondaga County	453 012	177 898	118 575	91 978	21 081	59 323	47 047	18 082	14 374	2.55	3.12	15 961	5 859	10
Ontario County	92 094	34 929	25 143	20 792	3 210	9 786	7 716	3 414	2 675	2.64	3.10	3 007	1 497	1
Orange County	293 491	101 506	77 111	63 207	10 401	24 395	19 975	8 404	6 611	2.89	3.35	14 156	6 211	7
Orleans County	39 588	14 428	10 685	8 608	1 484	3 743	3 119	1 482	1 146	2.74	3.20	2 258	2 053	
Oswego County	116 928	42 434	30 905	25 013	4 231	11 529	9 150	4 027	3 158	2.76	3.22	4 843	899	3
Otsego County	55 592	21 725	14 768	12 258	1 795	6 957	5 414	2 679	2 056	2.56	3.06	4 925	746	4
Putnam County	82 838	28 094	22 549	19 675	2 028	5 545	4 410	1 594	1 202	2.95	3.32	1 103	299	
Queens County	1 924 375	720 149	490 915	351 675	102 674	229 234	196 008	82 433	65 305	2.67	3.25	27 223	18 938	8
Rensselaer County	148 564	57 612	39 356	30 925	6 446	18 256	14 715	6 211	4 881	2.58	3.13	5 865	1 538	4
Richmond County	371 574	130 519	99 059	78 198	16 249	31 460	27 314	10 516	8 305	2.85	3.33	7 403	5 222	2
Rockland County	257 325	84 874	66 583	55 520	8 357	18 291	15 067	6 038	4 838	3.03	3.46	8 150	4 994	5
St. Lawrence County	101 384	37 964	26 784	21 809	3 663	11 180	8 924	4 223	3 303	2.67	3.16	10 590	3 232	7
Saratoga County	177 151	66 425	48 363	40 835	5 597	18 062	14 204	5 263	4 073	2.67	3.14	4 125	2 224	1
Schenectady County	144 981	59 181	39 702	31 284	6 556	19 479	16 611	7 649	6 063	2.45	3.01	4 304	2 201	2
Schoharie County	29 759	11 257	8 127	6 705	1 016	3 130	2 522	1 249	916	2.64	3.10	2 100	450	
Schuyler County	18 176	6 818	5 025	4 140	618	1 793	1 471	753	571	2.67	3.11	486	474	
Seneca County	32 452	12 285	8 998	7 421	1 156	3 287	2 708	1 296	981	2.64	3.09	1 231	670	
Steuben County	97 128	37 299	26 447	21 446	3 615	10 852	9 194	4 286	3 374	2.60	3.11	1 960	1 690	
Suffolk County	1 292 470	424 719	340 593	282 081	44 113	84 126	67 834	29 961	23 450	3.04	3.40	29 394	16 882	1
Sullivan County	63 858	24 576	17 090	13 848	2 344	7 486	6 216	2 916	2 095	2.60	3.13	5 419	2 829	
Tioga County	51 974	18 838	14 470	12 192	1 640	4 368	3 670	1 594	1 252	2.76	3.17	363	318	
Tompkins County	82 093	33 338	19 049	15 488	2 661	14 289	9 066	2 608	2 105	2.46	2.98	12 004	848	1
Ulster County	156 774	60 807	42 213	33 839	6 186	18 594	14 799	5 988	4 628	2.58	3.09	8 530	3 653	
Warren County	58 122	22 559	15 788	12 740	2 254	6 771	5 519	2 591	2 070	2.58	3.09	1 087	513	
Washington County	55 682	20 256	15 023	12 218	2 032	5 233	4 295	2 160	1 649	2.75	3.21	3 648	3 519	
Wayne County	87 841	31 977	23 961	19 787	3 046	8 016	6 443	2 948	2 354	2.75	3.17	1 282	962	
Westchester County	845 770	320 030	227 827	180 205	37 133	92 203	79 330	33 373	26 725	2.64	3.16	29 096	16 022	1
Wyoming County	38 731	13 897	10 528	8 857	1 175	3 369	2 847	1 391	1 088	2.79	3.23	3 776	3 709	
Yates County	22 158	8 419	6 100	5 111	698	2 319	1 909	996	782	2.63	3.09	652	269	
PLACE AND COUNTY SUBDIVISION														
Adams village, Jefferson County	1 742	726	469	379	78	257	231	131	112	2.40	3.04	11	11	
Adams town, Jefferson County	4 966	1 839	1 335	1 115	177	504	424	220	183	2.70	3.20	11	11	
Adams Center CDP, Jefferson County	1 675	591	455	378	64	136	102	45	36	2.83	3.22	-	-	
Addison village, Steuben County	1 842	711	505	378	94	206	171	106	87	2.59	3.05	-	-	
Addison town, Steuben County	2 645	995	730	556	127	265	215	118	97	2.66	3.08	-	-	
Afton village, Chenango County	838	337	238	207	26	99	86	52	38	2.49	3.01	-	-	
Afton town, Chenango County	2 972	1 092	814	670	98	278	219	108	81	2.72	3.13	-	-	
Airmont CDP, Rockland County	7 540	2 282	2 042	1 817	169	240	196	97	77	3.30	3.51	295	216	
Akron village, Erie County	2 895	1 185	790	621	137	395	350	224	176	2.44	3.04	11	-	
Alabama town, Genesee County	1 998	678	545	468	48	133	118	59	42	2.95	3.30	-	-	
Albany city, Albany County	91 458	42 121	20 308	12 695	6 193	21 813	16 239	5 659	4 481	2.17	2.94	9 624	2 338	
Albertson CDP, Nassau County	5 166	1 808	1 484	1 261	153	324	291	177	150	2.86	3.21	-	-	
Albion village, Orleans County	5 710	2 317	1 504	1 061	347	813	704	350	284	2.46	3.06	153	121	
Albion town, Orleans County	6 259	2 394	1 625	1 211	316	769	659	319	249	2.61	3.19	1 919	1 887	
Albion town, Oswego County	2 028	638	528	442	54	110	81	26	12	3.18	3.45	15	15	
Alden village, Erie County	2 443	955	667	558	77	288	251	134	103	2.56	3.13	14	-	
Alden town, Erie County	8 587	2 991	2 411	2 100	226	580	491	259	200	2.87	3.25	1 785	1 771	
Alexander village, Genesee County	445	150	123	102	12	27	23	14	13	2.97	3.28	-	-	
Alexander town, Genesee County	2 233	742	621	543	47	121	99	41	33	3.01	3.28	-	-	
Alexandria town, Jefferson County	3 899	1 505	1 091	878	133	414	345	186	139	2.59	3.05	50	21	
Alexandria Bay village, Jefferson County	1 154	504	309	222	64	195	171	95	76	2.29	2.94	40	21	
Alfred village, Allegany County	1 055	487	191	177	12	296	197	59	52	2.17	2.81	3 504	-	
Alfred town, Allegany County	2 287	958	517	460	36	441	308	87	76	2.39	3.02	3 504	-	
Allegany village, Cattaraugus County	1 944	754	459	383	57	295	193	114	91	2.58	3.06	36	36	
Allegany town, Cattaraugus County	6 410	2 399	1 720	1 464	196	679	520	266	209	2.67	3.12	1 917	36	
Allegany Reservation, Cattaraugus County	1 139	419	289	187	82	130	107	44	31	2.72	3.30	4	-	
Allen town, Allegany County	406	137	109	99	6	28	26	14	8	2.96	3.40	-	-	
Alma town, Allegany County	838	293	240	210	17	53	45	28	15	2.86	3.16	8	8	
Almond village	458	185	133	108	22	52	47	27	21	2.48	3.00	-	-	
Allegany County	442	175	128	103	22	47	43	25	20	2.53	3.04	-	-	
Steuben County	16	10	5	5	-	5	4	2	1	1.60	2.00	-	-	

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ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-07-9

Date: 11 AUGUST 1992 Time: 10:00 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: RICHARD WOODWELL 516-931-0184 Telephone No.

Affiliation: SUPERINTENDANT, HICKSVILLE WATER DEPT.

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

MR. WOODWELL CONFIRMED LOCATIONS AS PER ATTACHMENT

- WELL NO 2-2 & 7-2 ARE NOT IN OPERATION (8 WELLS OPERATING
- CURRENTLY SERVING APPROX. 47,810 PERSONS
- WELL DEPTHS VARIED, HOWEVER ALL WELLS ARE USING MAGOTHY AQUIFER.

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[illegible] Street
Hicksville, NY 11802

Official: Nicholas Briganti, Chairman Consult: HDM
Bd. of Commissioners

Superintendent: Richard Woodwell Lab: HDM

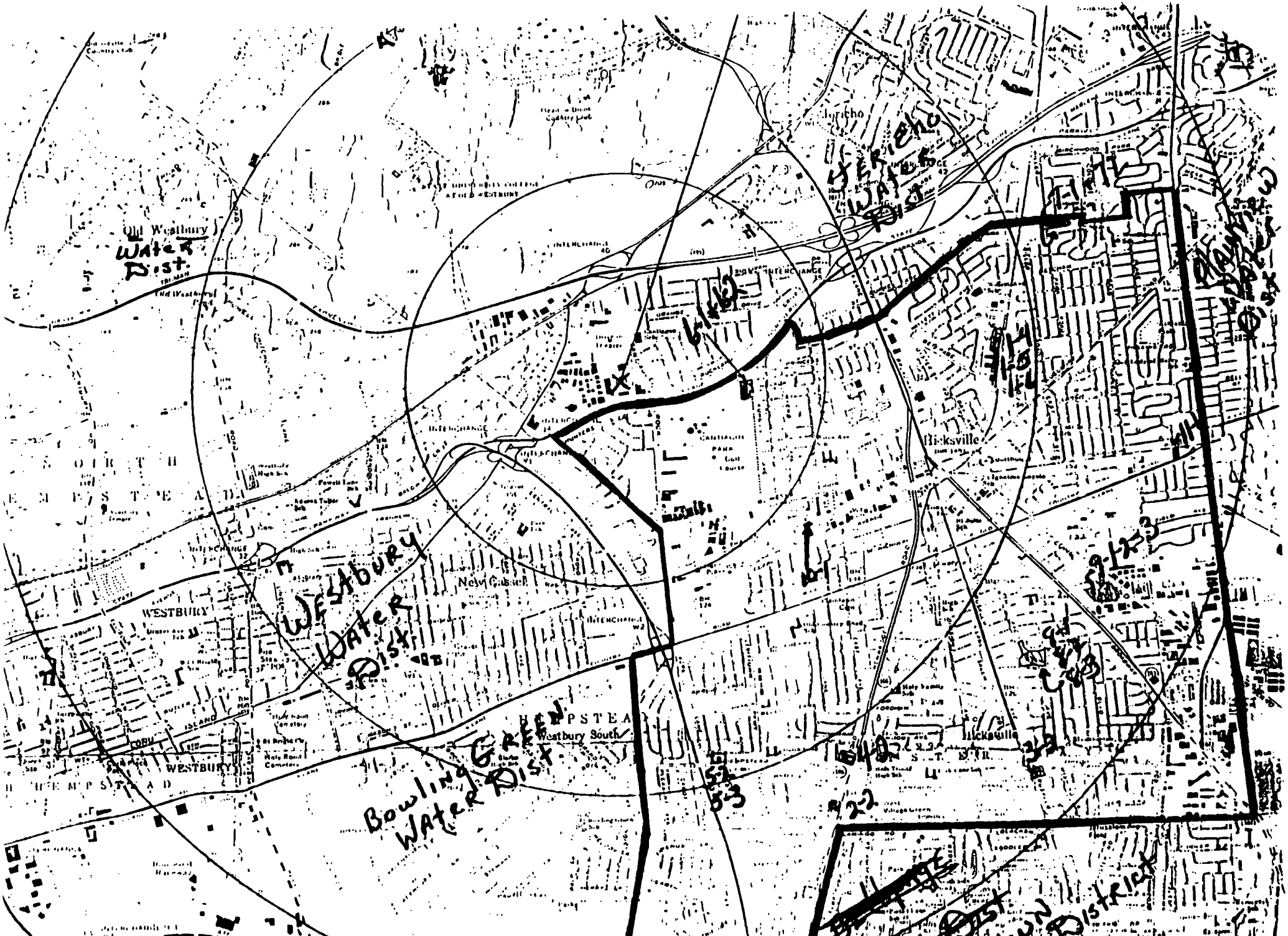
Population: 57,000 (1981)

Treatment: Chlorination(E), Polyphosphate, Lime, Caustic Soda,
OR (Packed Tower Aeration) (#1-5)

WELLS (19)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
E/S Bethpage Rd	Hicksville	1-4	7562	545	M	1400
	Hicksville	1-5	8749	470	M	1400
	Hicksville	1-6	9486	575	M	1380
W/S Newbridge Rd	Hicksville	2-2	5316	523	M	1200
Jerusalem Ave	Hicksville	3-2	9525	507	M	1400
W/S Newbridge Rd	Hicksville	4-2	8526	601	M	1400
N/S Stewart Ave	Hicksville	5-2	7561	550	M	1400
	Hicksville	5-3	9212	604	M	1400
W/S Lamel Ave	Hicksville	6-1	[illegible]	419	M	[illegible]
	Hicksville	6-2	3878	428	M	1200
E/S Miller Pl	Hicksville	7-1	6190	600	M	1200
	Hicksville	7-2	6191	550	M	1200
Dean St	Hicksville	8-1	6192	625	M	1400
	Hicksville	8-2	6193	467	M	1400
	Hicksville	8-3	9180	630	M	1400
Alicia St	Hicksville	9-1	8778	590	M	1400
	Hicksville	9-2	8779	585	M	1400
	Hicksville	9-3	10208		M	
Barclay St	Hicksville	10-1	9463	638	M	1380

1. PLT. 1 - BethPage Rd. - 3 Wells
   PLT. 2 - Newbridge Rd. - 1 Well
   PLT. 3 - Jerusalem Ave. - 1 Well
   PLT. 4 - Newbridge Rd. - 1 Well
   PLT. 5 - Stewart Ave. - 2 Wells
   PLT. 6 - Kuhl Ave. - 2 Wells
   PLT. 7 - Miller Rd. - 2 Wells
   PLT. 8 - Dean St. - 3 Wells
   PLT. 9 - Alicia St. - 3 Wells
   PLT. 10 - W. Barclay St. - 1 Well
   PLT. 11 - Plainview Rd. - 1 Well
2. All wells Supply the whole System
3. 30.758 E.P.D.
4. No
5. No Domestic Wells in WSC.



Old Westbury
Water Dist.
Jericho
Jericho Water Dist
Hicksville
New Cassel
WESTBURY
Westbury Water Dist
Westbury South
Bowling Green Water Dist
Hicksville
Dist
District

FOR ADJOINING AREA SEE MAP 9 PAGE 31

J
K
LLE
8778
8779
8767
8768
6078
17
21
(Main)
GRUMMAN
AIRPORT
BETHPAG
6915
6916
22
26
3618
PLAINEDGE
18
5

ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

ALSY

File No. 8003-07-9

Date: 12 AUG 1992 Time: 8:42 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: BOB ZILMAN 516-432-2283 Telephone No.

Affiliation: OPERATOR, TOWN OF HEMPSTEAD WATER DEPT.

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

MR. ZILMAN LOCATED THE FOLLOWING WELLS IN THE AREA OF CONCERN

- HEMPSTEAD PLANT NO 1 - CORNER OF PROSPECT / DEVON
  WELL NO 1 } 1300 GPM MAGOTHY AQUIFER
  3 } PRIMARY 1150 GPM
  5 } 1000 GPM
  2 } EMERGENCY BACK-UP 1000 GPM
  4 } 1150 GPM

- HEMPSTEAD WELLFIELD NO 1 1 R/S PLACE (OFF OLD COUNTRY RD)
  WELL NO
  1-1 1050 GPM MAGOTHY AQUIFER
  1-2 1050 GPM " "

- CURRENTLY SERVES 37,000 PERSONS FROM A TOTAL OF 37 wells

- Wells ARE ALL INTERCONNECTED

- DISTRIC IS ISOLATED FROM HEMPSTEAD WATER DIST.

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ATTACHMENT 2

Y028-SP1
REV. NO. 0

SAMPLING PLAN
ALSY MANUFACTURING
HICKSVILLE, NY

OBJECTIVES

The objective of this sampling will be to further characterize the site to determine whether additional CERCLA/SARA action is needed. Results of the sampling will be used to complete a full Hazard Ranking System Report in order to determine the potential for inclusion of the site on the National Priorities List.

BACKGROUND

Alsy Manufacturing is an active site producing lamps and lamp shades. The company began operations in 1975, recieving a State Pollution Discharge Elimination System (SPDES) permit for discharge of wastewater into leaching cesspools behind the building. Processes including metal plating, finishing, and painting generated a variety of wastes, mainly solvents and heavy metals. Contaminated soil exists surrounding the leaching pools due to occasional overflow of the leaching cesspools onto the ground surface. In 1984, New York State Department of Environmental Conservation (NYSDEC) inspectors observed stained soil and pavement on the site. Alsy Manufacturing was under investigation by the NYSDEC for violation of its SPDES permit, which was for one sanitary cesspool and three industrial cesspools authorized to receive various metals. Alsy violated this permit by using unauthorized point sources, use of the sanitary system for discharge of industrial pollutants, discharges above allowable permit limits, violation of effluent standards, and discharge of unauthorized pollutants, particularly solvents. The quantity of the wastewater discharged to the leaching pools is unknown. Alsy Manufacturing was issued a Summary Abatement Order on April 9, 1985 by the NYSDEC Stony Brook Office. The company was ordered to remove all liquid and sludge wastes from all manholes, catchbasins, and leaching cesspools, and to disconnect and remove all piping leading to them. The case was assigned to the State Attorney General for criminal prosecution on September 20, 1985. The criminal case was dismissed with prejudice in April 1987. Alsy was assessed a civil penalty which they agreed to pay, and all violations have since ceased. To date, the plant has cleaned out the leaching pools and currently treats wastewater with an alkaline solution before discharging under permit into the sanitary sewer system. The site is located in a residential area, with the majority of the population receiving water from municipal wells maintained by the Hicksville Water Department. Sampling was conducted at the site by U.S. EPA Region 2 FIT in June 1987, at which time two groundwater, one surface water, four composite soil, and two sediment samples were collected. These samples were analyzed for the Target Compound List (TCL) analytes, through the U.S. EPA Contract Laboratory Program (CLP).

Site Inspection analytical results from samples collected from the two on-site groundwater monitoring wells indicate the presence of 1,1,1-trichloroethane at concentrations of 60 and 140 micrograms per liter (ug/L), respectively. The metals arsenic, lead, chromium, copper and cadmium were also detected at concentrations of 185 ug/L, 144 ug/L, 152 ug/L, 200 ug/L, and 135 ug/L (estimated), respectively. However, an upgradient well does not exist at the site; therefore, a release can not be definitely concluded at this time. The analytical results suggest a release from the site to groundwater since 1,1,1-trichloroethane was detected in SPDES outfall samples collected by NYSDEC and is also known to be used on site. Analytical results of surface soils and sediment samples from the leaching pools indicated the presence of tetrachloroethene, ethylbenzene, xylenes, dimethyl phthalate, di-n-butylphthalate, butylbenzylphthalate, bis (2-ethylhexyl) phthalate, and elevated concentrations of the metals arsenic, cadmium, chromium, copper, and lead. The Site Inspection report indicates that there are residences within 200 feet of the site property.

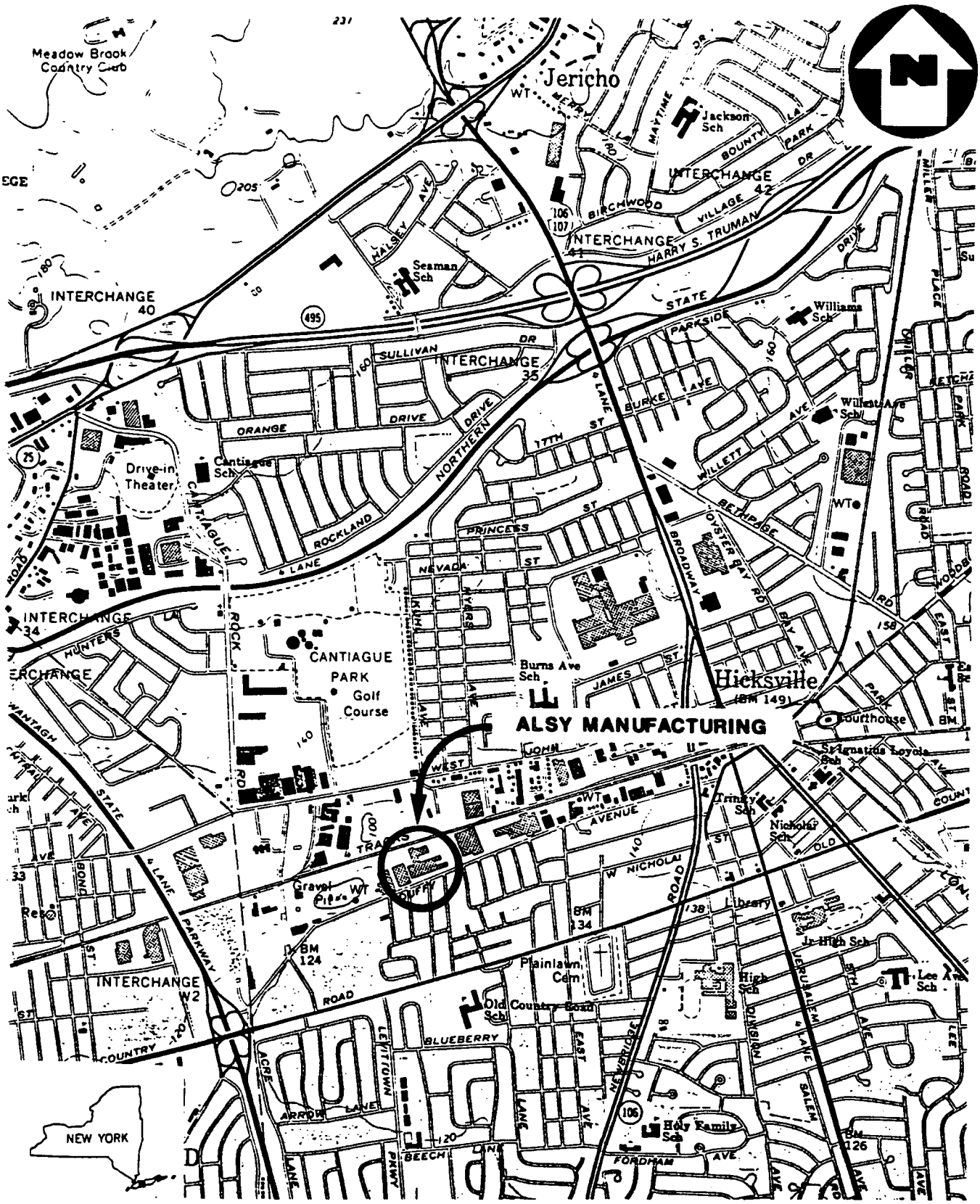
The routes of concern for the site are the groundwater and soil exposure pathways. The residences in the immediate vicinity of the site are the targets of concern for the soil exposure pathway, while

people receiving groundwater from drinking water wells within a 4-mile radius of the site are the targets of concern for the groundwater pathway. Groundwater is the main source for drinking water, and the nearest well is located approximately 0.5 mile north of the site. Prior to sampling, information should be collected to determine the location of the nearest residence to the site in relation to known areas of contamination.

SAMPLING STRATEGY

Sampling activities necessary at the site include the collection of groundwater samples to determine if a release of contaminants to groundwater can be attributed to the site. The two downgradient monitoring wells that are present should be resampled, along with collection of a groundwater sample from an upgradient well location. It should be determined if a monitoring or production well presently exists upgradient of the site but downgradient of waste sources not associated with the site. If one exists, it should be sampled. If it is determined that one does not exist, a monitoring well upgradient of the on-site waste sources should be installed and sampled. Additional surface soil samples should also be collected to determine if soil contamination extends to within 200 feet of the nearest residence. Figures 1 and 2 provide a Site Location Map and a Proposed Sample Location Map, respectively. The nearest public supply well should be sampled to determine if actual contamination of targets has occurred.

All sampling and decontamination procedures should be conducted in accordance with the guidelines set forth in A Compendium of Superfund Field Operations Methods, EPA 540/P87/001. All samples should be analyzed for Target Compound List (TCL) organic and inorganic contaminants, including cyanide, through the U.S. EPA Contract Laboratory Program (CLP). Sampling efforts should also include the collection of the appropriate number of QA/QC samples, as per applicable USEPA sampling and analysis guidelines.



(QUAD)HICKSVILLE

SITE LOCATION MAP
ALSY MANUFACTURING
HICKSVILLE, N.Y.

SCALE: 1" = 2000'

FIGURE 1

WELL IDENTIFICATION KEY:

Hicksville wells– Map #	Hicksville #	Levittown wells– Map #	Levittown #	Jericho wells– Map #	Jericho #	Westbury wells– Map #	Westbury #	Old Westbury wells– Map #	Old Westbury #
1	11–1	19	2A	32	15	43	9	56	1
2	1–4	20	9	33	9	44	16	57	4
3	1–5	21	5A	34	14	45	12	58	3
4	1–6	22	6a	35	6	46	12A	59	5
5	4–2	61	7A	36	7	47	10	60	2
6	6–1	62	8A	37	16	48	14		
7	6–1			38	20	49	11		
8	5–1	**Bethpage wells–**				50	6		
9	5–2	Map #	Bethpage #	**Plainview wells–**		51	7		
10	10–1	23	5–1	Map #	Plainview #	52	17		
11	8–1	24	6–1	39	Plant #3	53	15		
12	8–2	25	6–2	40	Plant #3				
13	8–3	26	7A	41	Plant #4	**Hempstead wells–**			
14	9–1	27	8A	42	Plant #4	Map#	Hempstead #		
15	9–2	28	9			54	1,3,5		
16	9–3	29	10			55	1–1,1–2		
17	3–2	30	11						
18	7–1	31	BD9–1						

TITLE:
FOUR–MILE VICINITY MAP

SITE NAME:
ALSY MANUFACTURING
HICKSVILLE, NASSAU COUNTY, N.Y.

DATE: SEPTEMBER 30, 1992 | SCALE: 1" = 2000'

REPORT NUMBER: 8003–07–9

USGS TOPO NAME:
HICKSVILLE, NEW YORK

ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No. 8003-079

Date: 7/28/92 Time: 10:17 [X] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.
Affiliation: _____

[X] Outgoing Call To: Harold Morgan (516)-794-8300 Telephone No.
Affiliation: Hempstead Water District

Malcolm Pirnie Staff: Lisa Szegedi (609)-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [X] Conversation [ ] Agreement:

There are currently 6 districts being served by this water dept. Mr Morgan believes that only two are within 4 miles of Hicksville - I requested a map showing the delineations from Mr Galletta - engineering dept
Each district has their own separate well system, however water within each district is blended before distribution

Levittown Water District - There are 9 active wells, and all are located in the Magothy aquifer They range in depth from 400-600' Their locations and total pumpage for 1991 are listed below

well # 2A - Azalea Rd 150 million gallons
9 - Bluegrass Lane between Shelter Rd and Center Rd 468 million gallons
6A and 5A - Market Lane 6A - 119 million gallons
5A - 247 million gallons
7A and 8A - Bowling Lane 7A - 169 million gallons
8A - 362 million gallons
12 - Loring Rd 177 million gallons
13 - Entry Lane 238 million gallons
14 - Water Lane S 127 million gallons

Altogether this system serves ~45,000 people

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ARCS II CONTRACT 68-W9-0051
MALCOLM PIRNIE, INC.
RECORD OF TELEPHONE CONVERSATION/AGREEMENT

ALS64

File No. 8003-07-9

Date: 11 AUGUST 1992 Time: 9:00 [✓] AM [ ] PM

[ ] Incoming Call From: _____ Telephone No.

Affiliation: _____

[✓] Outgoing Call To: JOE PASSARILLO 516-921-8280 Telephone No.

Affiliation: SUPERINTENDANT, JERICO WATER DIST.

Malcolm Pirnie Staff: RICKEY KAMPFER 609-860-0100
(Receiving or Calling) Name Telephone No.

Summary of [✓] Conversation [ ] Agreement:

MR. PASSARILLO CONFIRMED LOCATIONS AS PER ATTACHMENT
NON OPERATIONAL - #10 (POOR PRODUCTION) *
#15 (CONTAMINATION)

· CURRENTLY SERVING APPROX 60,000 PERSONS

* NOT LISTED ON PRINT OUT ATTACHMENT

· ALL WELLS ARE INTERCONNECTED AND DRAW FROM THE MAGOTHY AQUIFER

CROSS-STREETS FOR THE FOLLOWING WELLS
- JERICO NO 15 - CARTIAGE ROCK RD ADJACENT TO THE INDUSTRIAL COMPLEX ON FAMS CT.
- JERICO NO 9 - JERICO EXPRESSWAY & BROADWAY

JERIC NO 20 STILLWELL LANE & OYSER BAY ROAD

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[illegible] [illegible] [illegible]

[illegible] Convent Road
Syosset,NY 11791

Official: Edward F. Bracken,Jr. Chairman,Bd. of Commissioners

Consult: Sidney Bowne and Son

Superintendent: Lon Martling

Lab: Nytest

Population: 64,500 (1981)

Treatment: Chlorination(E),Caustic Soda

WELLS(20)

Address	Village	Local Num	N-Num	Depth (Ft)	Strata	Capacity (GPM)
W/S Convent La	Syosset	3	198	617	M	1150
	Syosset	4	199	[illegible]	M	1120
	Syosset	5	[illegible]	[illegible]	M	1200
N/S Wheatley Rd	Brookville	6	3474	[illegible]	M	1200
	Brookville	7	3475	482	M	1200
	Brookville	16	7446	493	M	1200
W/S Motts Cove Rd	Roslyn Harbor	11	5201	[illegible]	L	1200
W/S Cypress Dr	Woodbury	12	6092	[illegible]	M	1200
	Woodbury	13	6093	[illegible]	M	1200
N/S Tobie La	Jericho	14	6651	[illegible]	M	1200
S/S Jericho Tpk	Jericho	9	4245	565	M	1200
Cantiague Rock	Jericho	15	7030	530	M	1200
Cold Spring Rd	Laurel Hollow	17	7593	468	M	1200.
W/S Split Rock Rd	Syosset	18	7772	563	M	1200
	Syosset	19	7773	560	M	1200
STILLWELL LANE		20	10149	485	M	1200

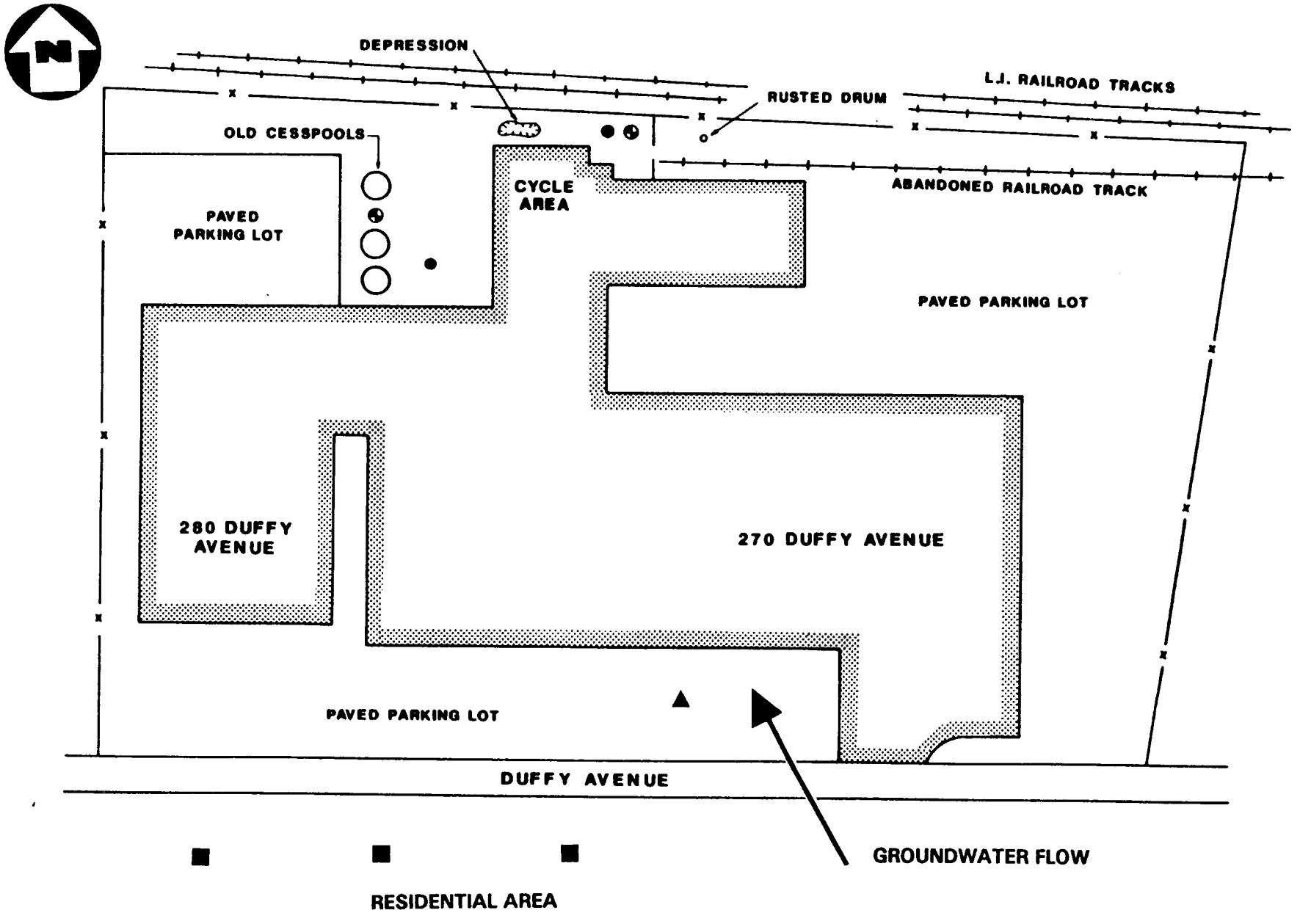
[illegible] WATER DISTRICT (Continued)

WELLS (Continued)

Address	Village	Local Num.	N-Num	Depth (Ft.)	Strata	Capacity (GPM)
E. [illegible] Norwich Rd	Jericho	22	7761	451	M	1200
W. [illegible] Rd	Woodbury	23	8047	688	M	1200
[illegible] La	Muttontown	25	8751	590	M	1400
N. E. Simonson Rd	O. Brookville	27	8713	372	M	1400

STORAGE TANKS(6)

Address	Village	Capacity (MG)	Type
Piping La	Muttontown	3.0	Ground
Wheatley Rd	Brookville	1.0	Elevated
Cow[illegible] La	Syosset	1.5	Elevated
Jericho Tpke	Jericho	1.5	Elevated
Orchard Dr	Woodbury	3.0	Stand Pipe
[illegible] Rd	Syosset	2.4	Stand Pipe



LEGEND

- ▲ PROPOSED MONITORING WELL LOCATION *
- ■ PROPOSED SOIL SAMPLE LOCATION
- EXISTING MONITORING WELL SAMPLE LOCATION
- ● INACTIVE NYSDEC WELL

* - IF THERE ARE NO EXISTING MONITORING WELLS OR NEARBY PRIVATE/PRODUCTION WELLS UPGRADIENT OF THE SITE

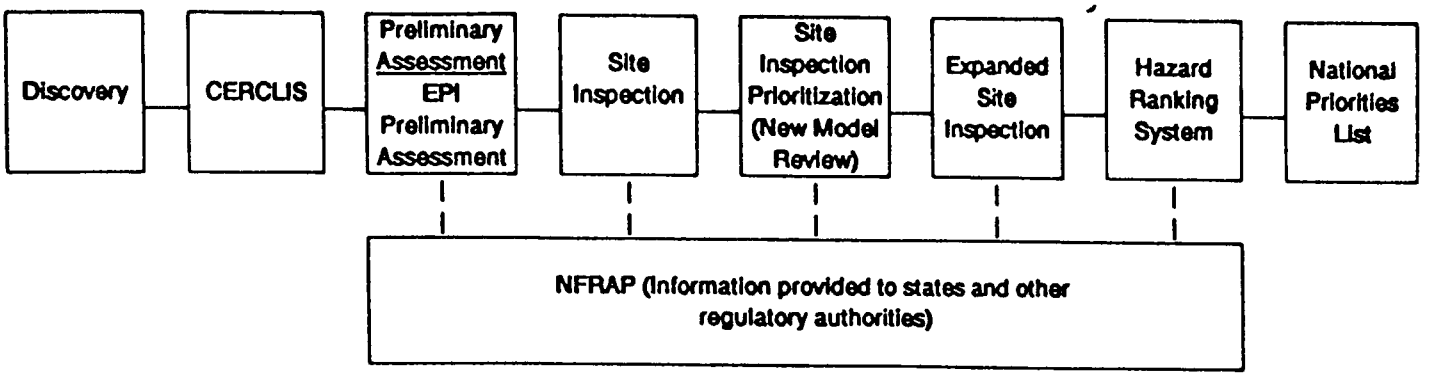
PROPOSED SAMPLE LOCATION MAP
ALSY MANUFACTURING
HICKSVILLE, N.Y.

NOT TO SCALE

FIGURE 2

ATTACHMENT 3

SUPERFUND SITE ASSESSMENT PROGRAM



SITE ASSESSMENT REPORTS

1. PRELIMINARY ASSESSMENT
   - Quick Review of Readily Accessible Records and Reports
   - Undertaken to Determine the Existence of a Problem and the Need for Further Action at a Site by Characterizing:
     - Magnitude of the Hazard
     - Source and Nature of the Release or Potential Release
     - Identification of Targets
   - Does Not Include Sample Collection
2. SITE INSPECTION
   - The Purpose of the Site Inspection is to:
     - Further Define and Characterize the Problem
     - Provide Data for the Hazard Ranking System (HRS) Scoring and Compute Initial Score
     - Identification of Targets
     - Determine the Necessity of Further Action
   - The Site Inspection Involves an On-Site Visit and Sampling (10+/- Samples)
   - A Site Inspection is not an Extent of Contamination Study
3. SITE INSPECTION PRIORITIZATION
   - Quick Review of Readily Accessible Records and Reports
   - Undertaken to Determine the Validity and Update Background Conditions Under the New HRS Model, and the Need for Further Action at a Site by Characterizing:
     - Magnitude of the Hazard
     - Source and Nature of the Release or Potential Release
   - Included On-Site Visits or Sample Collection as needed
     - Analyze Samples/Limited Analytical Resources
     - Account for Significant Safety Hazards On-Site
4. EXPANDED SITE INSPECTION

   A Follow-Up Inspection May Be Recommended After the SI To:
   - Gather Additional Data Necessary to Strengthen or Substantiate the Initial HRS Score
     - Geophysical Surveys
     - Installation of Groundwater Monitoring Wells
     - Additional Sampling

Review of Analytical Data

If previous analytical data are available, they should be reviewed for information which supports the design of the sampling and analysis program, tests site hypotheses, and documents the site score. The SI investigator should review all previous analytical data. While analytical data collected for other purposes may not meet SI objectives, site-specific analytical data are generally helpful in better understanding the nature of the problem at the site, regardless of data sources or data quality. The depth of the review depends on the overall quality and quantity of data, the intended use of the data, and whether they are representative of current site conditions and comparable to SI data. Determining whether available data can be applied as SI-generated data requires the professional judgement of an experienced reviewer. Both validated and non-validated analytical data may be available. Previous SI data will be validated and of CLP-quality. Non-validated data may contain false positives and false negatives, as well as quantitation, transcription, and calculation errors. If data of unknown or questionable quality are used for decision-making, the investigator should review all available information to assess the level of certainty associated with the data. If these data are used for HRS documentation, data validation will be necessary. The investigator should be able to determine the general quality of the data set by reviewing QC data for evaluation under the Superfund Program.