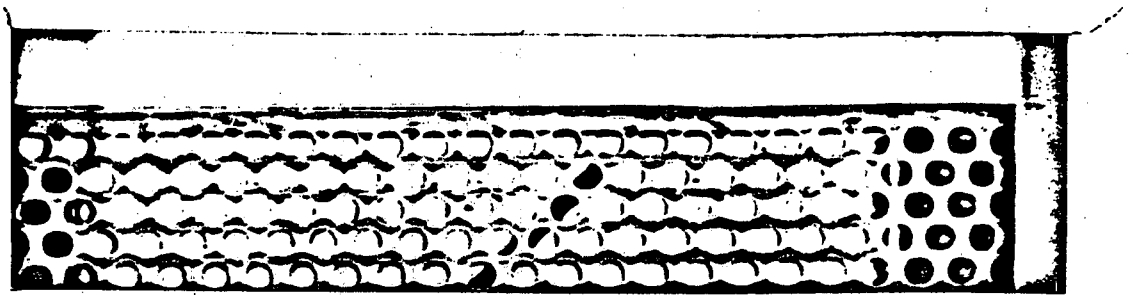
NUS CORPORATION
A Halliburton Company



FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION
SUPERFUND DIVISION

346824

02-9004-17-SI
REV. NO. 0

FINAL DRAFT
SITE INSPECTION REPORT
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
VOLUME 1 OF 2

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-9004-17
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 19, 1990

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

DAVID J. GRUPP
PROJECT MANAGER

JOHN D. RIECKHOFF
SITE MANAGER

REVIEWED/APPROVED BY:

FIT OFFICE MANAGER
RONALD M. NAMAN

SITE INSPECTION REPORT: LEVEL III

PART I: SITE INFORMATION

1. Site Name/Alias Arthur Kill Urban Industrial Park
   Alias 1 State Street Industrial Park
   Alias 2 NL Industries, Inc. (Perth Amboy Site)

   Street 1050 State Street

   City Perth Amboy State New Jersey Zip 08861

2. County Middlesex County Code 023 Cong. Dist. 6

3. EPA ID No. NJD097408439

4. Block No. 428 Lot No. 1A, 1B, 1C, 1D, 1E

5. Latitude 40° 31' 47" N Longitude 74° 15' 43" W

   USGS Quad. Perth Amboy

6. Owner Custom Distribution Services Tel. No. (201) 442-6400

   Street 1050 State Street

   City Perth Amboy State New Jersey Zip 08861

7. Operator Mr. Charles Piazza Tel. No. (201) 442-6400

   Street 1050 State Street

   City Perth Amboy State New Jersey Zip 08861

8. Type of Ownership

   ☒ Private ☐ Federal ☐ State
   ☐ County ☐ Municipal ☐ Unknown ☐ Other _____

9. Owner/Operator Notification on File

   ☐ RCRA 3001 Date _____ ☒ CERCLA 103c Date 6/8/81 *
   ☐ None ☐ Unknown

   * Under the name of NL Industries, Inc (Perth Amboy Site).

10. Permit Information

    No permits have been granted to the Arthur Kill Urban Industrial Park Site.

Permit	Permit No.	Date Issued	Expiration Date	Comments
None				

11. **Site Status**

☒ Active ☐ Inactive ☐ Unknown

12. **Years of Operation** 1981 to Present

13. **Identify the types of waste sources (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.**

(a) **Waste Sources.**

Waste Unit No.	Waste Unit Type	Facility Name for Unit
1	Tanks	Aboveground Storage Tanks
2	Surface Impoundment	Pit(s)
3	Tanks	Tank Farm
4	Waste Pile	Sand Blast Material
5	Drums	Drum Storage
6	Tank	Underground Storage Tank
7	Soil Contamination	None

Ref. Nos. 1, 2, 3, pp. 2; 5, 11, 12, 14-16, 51-55, 57-60; 4; 5, pp. 8-10, 15-16

(b) **Other Areas of Concern**

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

At the east end of the building housing Jersey Overnite Express, a trucking forwarding company, is a metal recycling business (Joseph Adler & Co., Inc.) which has 63 55-gallon drums stacked horizontally four to five high along the southern wall on the bare ground surface. These drums cannot be characterized from available information as to whether they are empty or what their contents may be (Ref. No. 5, p. , 12).

In 1981, New Jersey Department of Environmental Protection (NJDEP) personnel sampled various on-site tank trailers in an effort to document load contents. Analyses were for polychlorinated biphenyls (PCBs) only. Analytical data indicates that PCBs were present. The concentrations detected ranged from detection limits for various media, to a maximum concentration of 65.6 ppm in one truck trailer's outlet pipe where a tar-like substance was present (Ref. Nos. 3, pp. 30-37; 5, pp. 6, 16). The actual locations of these tanker trailers on site and their uses and actual contents are unknown. This NJDEP sampling effort was part of an area wide study over the year 1981 to further document the presence and potential sources of PCBs that were present in the Perth Amboy sewer system.

Subsequent to the 1981 PCB sewer investigation, there was activity at Cranes Creek where the sediments blocked an industrial park discharge point. Workers used a backhoe to excavate the sediment material, and it was then deposited on the creek bank. It is estimated by the NJDEP that this bottom sediment material was also contaminated with PCBs (Ref. No. 3, pp. 2, 4-5, 7-9, 24-25).

02-9004-17-SI
Rev. No. 0

(QUAD) PERTH AMBOY, N.J.

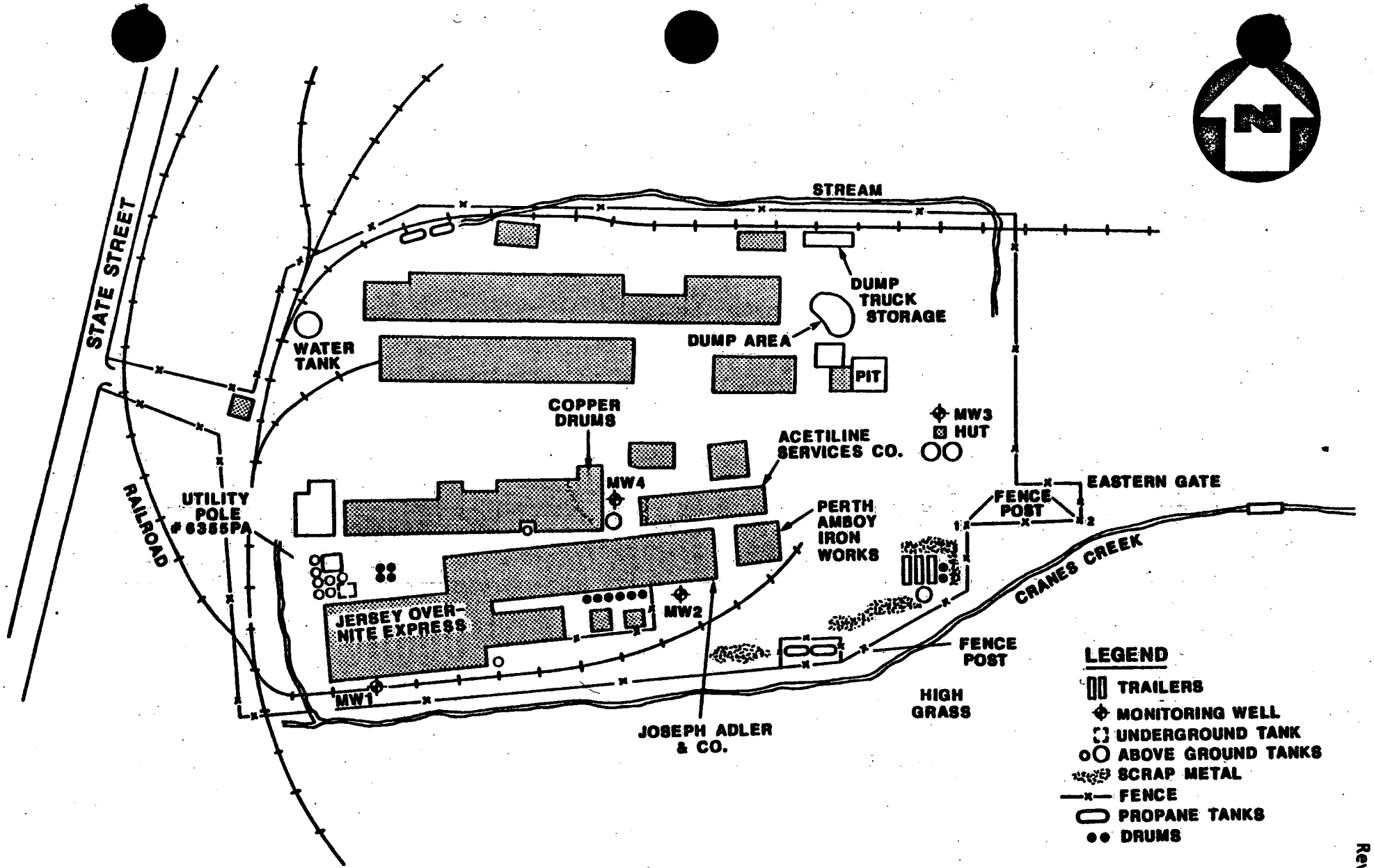
SITE LOCATION MAP

ARTHUR KILL URBAN INDUSTRIAL PARK,

PERTH AMBOY, N.J.

FIGURE 1

NUS CORPORATION



02-9004-17-SI
Rev. No. 0

FIGURE 2

SITE MAP

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, N.J.

NOT TO SCALE

NUS CORPORATION

02-9004-17-SI
Rev. No. 0

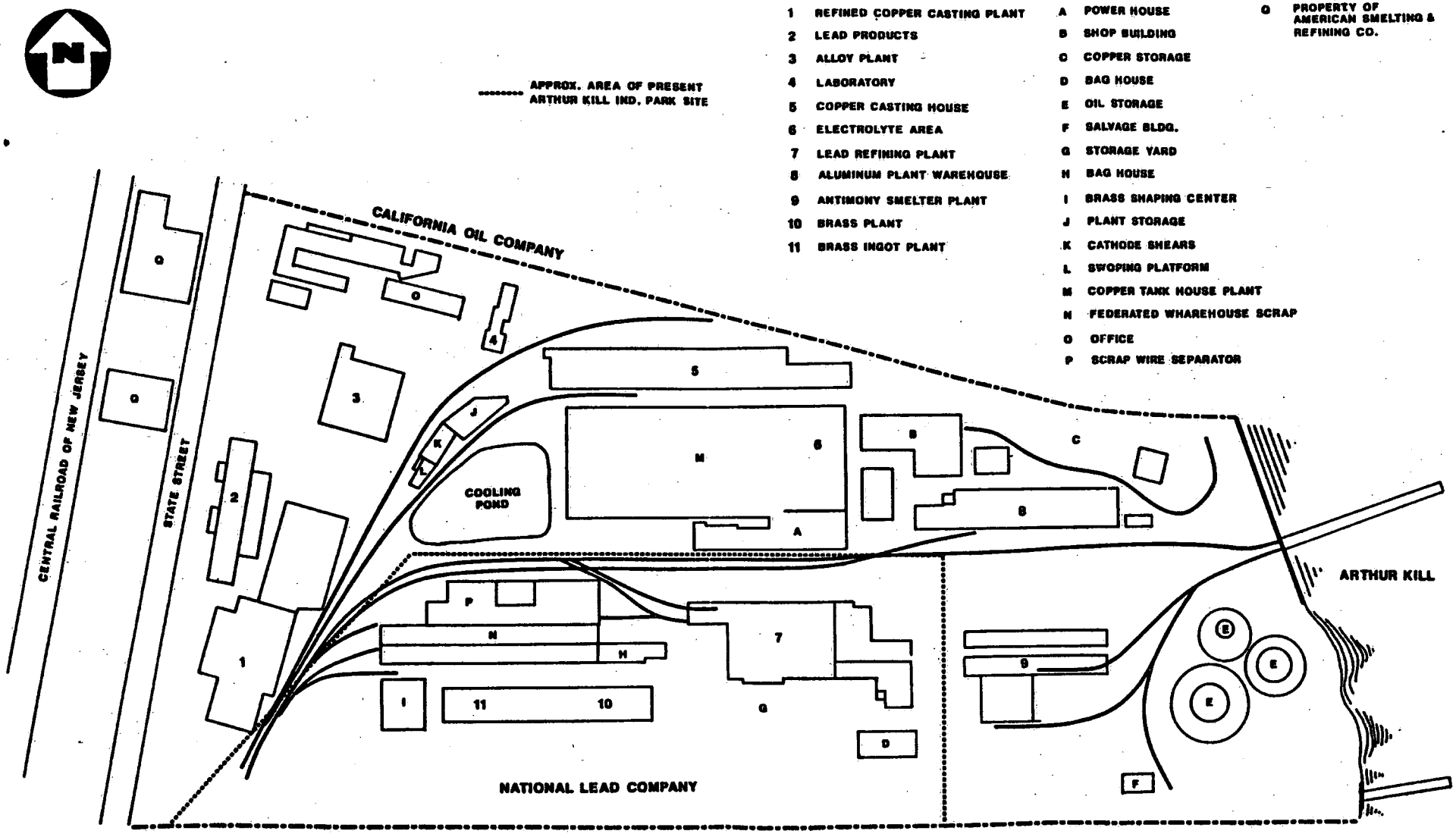


FIGURE 3

FORMER SITE MAP
N.L. INDUSTRIES
PERTH AMBOY, N.J.
SCALE UNKNOWN

NUS CORPORATION

PART II: WASTE SOURCE INFORMATION

The Arthur Kill Industrial Park Site is currently an active space-leasing facility located adjacent to the Arthur Kill River in Perth Amboy, New Jersey (Ref. No. 8). The site is located in an industrialized area where metals refining/smelting, and oil-related tank storage has been carried out since approximately the early 1900s. Figures 1 and 2 provide a site location and site map, respectively.

Historical information indicates that the Arthur Kill Industrial Park Site (Tax Block 428, Lot 1.01) was part of a block of property first owned by R.H. Sayre, who conveyed the property, Tax Blocks 426, 427, 428, 429, and 430, by deed to Lehigh Railroad Co. of New Jersey in 1881. At an unknown point in time, Tax Block 428 was deed transferred to United Lead Company. In 1905, a similar deed transfer conveyed Tax Blocks 425, 429, and 430 to the American Smelting and Refining Company. In 1928, United Lead Company conveyed their deeded property (Block 428) to National Lead Industries (Ref. No. 4, p. 2). In 1979, NL Industries, Inc., a successor corporation to National Lead Company conveyed title to the property (Block 428, Lots A (1.01) and B (1.02)) to Arthur Kill Urban Industrial Park, Inc. (Ref. No. 4, p. 4, 4A). This property was acquired in late 1982 by Custom Distribution Services, Inc (CDS) through mortgage forclosure and a sheriffs sale (Ref. No. 4, pp. 5, 5A; 19). In August 1983, NL Industries sold 250 feet of riparian shoreline rights to CDS (Ref. No. 4, p. 3). This 10-foot wide strip of shoreline is recorded in tax records as block 428 lots D and E (1.03 and 1.05 on tax assessment map) (Ref. No. 4, p. 7).

National Lead conducted numerous operations at the site including: smelting of copper, lead, and antimony; scrap metal separation; copper casting and storage; and aluminum casting. In addition, support functions such as bag houses, a power house, a laboratory, and oil storage were located on site. There was also an on-site cooling pond situated centrally on the property. The Arthur Kill Industrial Park Site only accounts for approximately one-third of the former National Lead property. Figure 3 provides a site map of the former National Lead facility. A Notification of Hazardous Waste Site form was submitted by National Lead Industries to the U.S. Environmental Protection Agency (EPA) in 1981. This notification stated that slag and battery casings derived from secondary lead smelting operations were disposed of on site (Ref. No. 3, pp. 51-52).

The potential on-site waste sources that have been identified, through background information, and the site investigation, are described below.

The first identified waste unit is a large vertical aboveground storage tank (AST) situated centrally on the property and due south of monitoring well No. 4. Information gathered during the NUS Corp. Region 2 FIT site investigation activities indicated the tank was approximately one-third full with off-

specification oil of an undetermined type when the property was purchased by CDS. There was a sign observed on the tank indicating PCBs are present in the tank. This tank is contained by a concrete block wall that surrounds it. The wall is estimated to be between three and five feet tall, but the enclosed area at the ground surface is not documented as having an impermeable covering. The tank volume is unknown (Ref. No. 5, p. 9).

Two horizontal ASTs are located on the east end of the property near the midpoint between the property's northeast and southeast corners. These ASTs are affixed to concrete cradles supporting each end of the containers. There are no ground surface containment systems beneath or surrounding these ASTs. These two tanks, totaling approximately 30,000 gallons capacity, were reportedly empty during on-site activities (Ref. No. 5, p. 8). The westernmost tank of the pair was approximately two-thirds full of fuel oil during an on-site tour by a New Jersey Department of Environmental Protection (NJDEP) official in March, 1981. The content status of the eastern tank has not been determined (Ref. No. 3, p. 15).

There is a cement below ground pit located on the northeastern quadrant of the site, northwest of monitoring well No. 3. This pit has been described as having dimensions of 20-feet long by- 20-feet wide by 20-feet in depth (Ref. Nos. 3, p. 12; 5, pp. 9, 23). It is unknown if these dimensions are complete as a potential second adjacent chamber (either part of or separate from the first section) was discovered during the NUS Corp. Region 2 FIT sampling activities. In both NJDEP sampling of 1981, and the sampling by NUS Corp. in June of 1990, there was sludge of unknown depth present in the chamber. The NJDEP sampling documentation does indicate that a liquid fraction was also present above the sludge. The pit was observed to be loosely covered with plywood, thereby allowing surface precipitation and runoff access to the structure (Ref. No. 5, pp. 9, 23, 32).

There is a small tank farm situated near the entrance on the western end of the site property. There are 12 freestanding vertical aboveground storage tanks (ASTs) contained within a 5-foot deteriorating berm constructed of concrete blocks. It was noted that these tanks were present prior to the site purchase by CDS and are reportedly partially filled with waste oil and sludges deposited by a local construction contractor. The total capacity of this tank facility is approximately 277,000 gallons (Ref. No. 5, pp. 6-7; 7).

A waste pile is located east of the 12 aboveground storage tanks between the two large buildings located on the southeast quadrant of the site (Ref. No. 5). This material, described as waste sandblast medium, is presently uncontained on the ground surface. The areal distribution of the material is unknown.

A set of 29 drums were observed during a 1980 NJDEP on-site inspection, and also identified to a potential purchaser of the property in May 1981 (Ref. No. 3, pp. 11, 14). At the time of the NJDEP inspection several of the drums were marked as "Copper Sludge" and were corroded and potentially leaking. During the NUS Corp. Region 2 FIT reconnaissance, drums were observed to be present in the eastern end of the building immediately to the north of the sandblast material in the southeast quadrant of the site (Ref. No. 5, p. 9). These are believed to be the same drums indicated in the NJDEP inspection. A tank with a PCB sticker was also observed to be present in the same building. There was no containment berm or other features noted as being present around the drums or the tank (Ref. No. 5, p. 9).

An underground storage tank (UST) is situated in close proximity to the small tank farm mentioned above. This tank is located between the aboveground storage tanks and the building housing the trucking forwarding company (Jersey Overnite Express) immediately to the south. This UST of unknown capacity, reportedly contains an unknown amount of waste oil. This tank is portrayed as being situated within an inground concrete vault and is covered with a cement slab (Ref. No. 5, pp. 6-7).

There is soil contamination on the industrial park property. Analytical results from soil samples, collected during the NUS Region 2 FIT site inspection in June 1990, indicate the presence of elevated concentrations of metals, pesticides, and PCBs throughout the site (Ref. No. 26).

PART III: PRE-EXISTENT ANALYTICAL DATA

The earliest analytical data present in historical information concerns a sampling effort conducted by the NJDEP in April 1981. The sampling consisted of three samples from the below ground pit and one sample from a sewer/drainage access hole (Ref. No. 3, pp. 12-13). Analytical results of these samples are presented in Table 1.

TABLE 1

**Summary Of Analytical Results
Disposal Pit and Sewer Access Hole
Arthur Kill Urban Industrial Park
April 24, 1981**

Contaminant	Sewer[1] Access Hole	Liquid[1] Fraction of Pit	Liquid[2] Fraction of Pit	Sediment[2] Fraction of Pit
Dichloromethane	370	1100		
1,1-Dichloroethene		34		
1,1-Dichloroethane		16		
Trans-1,2-Dichloroethene		130		
Trichloroethene		26		
1,1,1-Trichloroethane		99		
Toluene	22	3700		
Ethylbenzene		190		
Acetone		Trace		
1,1,2,2-Tetrachloroethane		120		
Polychlorinated byphenols			1	3100

Note: All values reported in parts per billion (ppb).
[1] - Samples were analyzed for volatile organics only.
[2] - Samples were analyzed for PCBs only.

Ref. No. 3, pp. 12-13

To identify the source of PCB contamination in the Perth Amboy sewer system, NJDEP conducted extensive sampling throughout the Perth Amboy City area in May and June 1981. These samples were analyzed for PCBs only. Table 2 presents analytical results from samples collected at the Arthur Kill Industrial Park as part of this areawide sampling.

TABLE 2

PCB Analytical Results
Arthur Kill Industrial Park Samples
NJDEP Perth Amboy Sampling Survey
May-June, 1981

Sample Location	Sample ID Number	Aroclor Type	Concentration
Chamber and pump station in Arthur Kill Industrial Park.	C-12415	1248	178
Arthur Kill Industrial Park oil tank #3 at Oil System (reprocessed oil tank).	C-12423	1260	6.62
Arthur Kill Industrial Park 55 gallon drum on Oil Systems Company sediment sample from processing section.	C-12424	1260	<2
Arthur Kill Industrial Park rear outlet valve of red trailer (Heil) serial #REV-5-65; owner, Marine System Company.	C-28884	1254	615.6
Arthur Kill Industrial Park sediment sample from top cover of white colored tank trailer license plate #XMC 384; owner, Marine Systems.	C-28885	1254	3
Arthur Kill Industrial Park spill-over sediment from waste oil storage tank #12 prior to processing section of plant; owner, Oil Systems Co.	C-28886	1254	30
Arthur Kill Industrial Park - green colored International tank trailer #C-51825; owner, Marine Systems Company.	C-28887	1254	3
Arthur Kill Industrial Park - 55 drum in 1966 green colored Chevy Truck license plate XVU-54N; owner, Marine Systems Co.	C-28888	1260	100

TABLE 2 (CONT'D)

PCB Analytical Results
Arthur Kill Industrial Park Samples
NJDEP Perth Amboy Sampling Survey
May-June, 1981

Sample Location	Sample ID Number	Aroclor Type	Concentration
Arthur Kill Industrial Park - blue and orange tank truck "Gulf Solar Heat", Frank Taibit & Son painted on truck - owner unknown.	C-28889	1260	28.9
Arthur Kill Industrial Park sediment sample from 28,000 gal. underground waste oil tank; owner Oil Systems Co.	C-28852	PCB	<6
Arthur Kill Industrial Park sediment sample from blue colored trailer #T-121, owner, Marine Systems.	C-28853	PCB	<10
Arthur Kill Industrial Park sediment sample from silver color tank trailer - license plate #TD-231Y, owner, Oil Systems.	C-28854	1248	53.02
Arthur Kill Industrial Park sediment sample from sewer catch basin 30' off N/E corner of building occupied by a welding company.	C-28855	PCB	<3
Arthur Kill Industrial Park sediment sample from sewer catch basin, 15' off S/E corner of Oil Systems' boiler room building.	C-28856	PCB	<30

Note: All values reported in parts per million (ppm).

Ref. No. 3, pp. 32-48

All analytical results from these two sampling events are presented in Reference No. 3. The first event's samples are mentioned in the data record as being transported by NJDEP personnel to the NJDEP mobile laboratory located at the Chemical Control Site in Elizabeth. The analysis of the May-June samples was indicated as being carried out by a NJDEP Division of Water Resources laboratory.

PART IV: SITE INSPECTION SAMPLE RESULTS

A site inspection was conducted by NUS Corporation Region 2 FIT on June 13, 1990 during which samples were collected at the Arthur Kill Urban Industrial Site. A total of 21 environmental samples were collected and included six surface water, five sediment, six surface soil, and four groundwater samples (Ref. Nos. 5, pp. 18-35; 6, pp. 2-15). Table 3 presents a summary of the analytical data. Figure 4 provides a Sample Location Map. Samples were analyzed under the Contract Laboratory Program (CLP) for Target Compound List (TCL) contaminants including cyanide. A complete presentation of the analytical results can be found in Reference 26.

Five surface water and five sediment samples were collected to determine whether a release of contaminants to surface water (Cranes Creek) has occurred. Surface soil samples were collected to characterize on-site hazardous substances and attribute contaminants detected in groundwater and surface water samples to the facility, and to determine whether a potential exists for direct contact with contaminants. Groundwater samples were collected to determine if a release of contaminants from the site to groundwater has occurred. One additional surface water sample from below the building housing the copper sludge wastes and one sediment sample from the below ground pit were collected to characterize on-site wastes.

SITE NAME: ARTHUR KILL URBAN INDUSTRIAL PARK
INFO: 02-9004-17
SAMPLING DAT[illegible]/13/90
EPA CASE N[illegible]7 LAB: INTECH BIOLABS

TABLE 3
SITE INSPECTION S[illegible] RESULTS
ARTHUR KILL URBAN I[illegible]RIAL PARK
PERTH AMBOY, NEW JERSEY

VOLATILES	NJFL-GW1	NJFL-GW2	NJFL-GW3	NJFL-GW4	NJFL-SW1	NJFL-SW2	NJFL-SW3	NJFL-SW4(MS/MSD)	NJFL-SW7	NJFL-SW8(DUP)	NJFL-SED1	NJFL-SED2	NJFL-SED3
Sample ID No.	BDN73	BDN74	BDN75	BDN76	BDN77	BDN78	BDN79	BDN80	BDN83	BDN84	BDN85	BDN86	BDN87
Traffic Report No.	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Matrix	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Units	1	1	1	1	50	1	5	1	1	1	1	1	1
Dilution Factor	--	--	--	--	--	--	--	--	--	--	22	27	13
Percent Moisture													
Chloromethane													
Bromomethane													
Vinyl Chloride													
Chloroethane													
Methylene Chloride													
Acetone													
Carbon Disulfide		18 E	32 E	25 E	1500		210	170	14	3100			
1,1-Dichloroethene			7					12			J		
1,1-Dichloroethane		47											
Trans-1,2-Dichloroethene (total)													
Chloroform													
1,2-Dichloroethane											10		
2-Butanone	J												
1,1,1-Trichloroethane		85						J		J			
Carbon Tetrachloride													
Vinyl Acetate	R	R	R	R	R	R	R	R	R	R			
Bromodichloromethane													
1,2-Dichloropropane													
cis-1,3-Dichloropropene													
Trichloroethene													
Dibromochloromethane													
1,1,2-Trichloroethane											10		
Benzene													
trans-1,3-Dichloropropene													
Bromoform													
4-Methyl-2-Pentanone													
2-Hexanone													
Tetrachloroethene													
Toluene													
1,1,2,2-Tetrachloroethane				J				J			10		
Chlorobenzene											80		
Ethylbenzene													
Styrene											J		
Xylenes (Total)											88		
											350		

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - [illegible]alysis did not pass EPA QA/QC
N - [illegible]resumptive evidence of the presence of the material
NA - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

02-9004-17-S1
Rev. No. 0

SITE NAME: ARTHUR KILL URBAN INDUSTRIAL PA
IDDO: 02-9[illegible]
SAMPLING D[illegible]3/90
EPA CASE [illegible]7 LAB: INTECH BIOLABS

TABLE 3
SITE INSPECTION S[illegible] RESULTS
ARTHUR KILL URBAN I[illegible]TRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

VOLATILES													
Sample ID No.	NJFL-SED4	NJFL-SED5	NJFL-S1	NJFL-S2(MS/MSD)	NJFL-S3	NJFL-S4	NJFL-S5	NJFL-S6(DUP)	NJFL-RIN1	NJFL-RIN2	NJFL-RIN3	NJFL-RIN4	NJFL-TBLK1
Traffic Report No.	BDW88	BDW89	BDW91	BDW92	BDW93	BDW94	BDW95	BDW96	BDW99	BED01	BED02	BED03	BED05
Matrix	SEDIMENT	SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor	1	1(MED)	1	1	1	1	1	1	1	1	1	1	1
Percent Moisture	23	25	9	11	4	22	6	3	--	--	--	--	--
Chloromethane													
Bromomethane													
Vinyl Chloride													J
Chloroethane													
Methylene Chloride													
Acetone									B	B	B	B	B
Carbon Disulfide									36			J	
1,1-Dichloroethene													
1,1-Dichloroethane													
Trans-1,2-Dichloroethene (total)													
Chloroform													
1,2-Dichloroethane													
2-Butanone									J	J	J	J	J
1,1,1-Trichloroethane													
Carbon Tetrachloride													
Vinyl Acetate													
Bromodichloromethane													
1,2-Dichloropropane									R	R	R	R	R
cis-1,3-Dichloropropene													
Trichloroethene													
Dibromochloromethane													
1,1,2-Trichloroethane													
Benzene													
trans-1,3-Dichloropropene													
Bromoform													
4-Methyl-2-Pentanone													
2-Hexanone													
Tetrachloroethene													
Toluene													
1,1,2,2-Tetrachloroethane													
Chlorobenzene									8				
Ethylbenzene													
Styrene													
Xylenes (Total)				1200									
				J									

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - a alysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

02-9004-17-SI
Rev. No. 0

SITE NAME: [illegible]ILL URBAN INDUSTRIAL PARK
HRS. 02-9[illegible]
SAMPLING DATE: [illegible]/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

TABLE 3
SITE INSPECTION SA[illegible] RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

SEMI-VOLATILES													
Sample ID No.	NJFL-GW1	NJFL-GW2	NJFL-GW3	NJFL-GW4	NJFL-SW1	NJFL-SW2	NJFL-SW3	NJFL SW4(MS/MSD)	NJFL SW7	NJFL-SW8(DUP)	NJFL-SED1	NJFL-SED2	NJFL-SED3
Traffic Report No.	BDN73	BDN74	BDN75	BDN76	BDN77	BDN78	BDN79	BDN80	BDN83	BDN84	BDN85	BDN86	BDN87
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1	5	1
Percent Moisture	--	--	--	--	--	--	--	--	--	--	22	27	13
Phenol				R									
bis(2-Chloroethyl)ether													
2-Chlorophenol				R									
1,3-Dichlorobenzene													
1,4-Dichlorobenzene													
Benzyl alcohol											J		
1,2-Dichlorobenzene													
2-Methylphenol				R									
bis(2-Chloroisopropyl)ether													
4-Methylphenol				R	40 E		17			39	J		
N-Nitroso-di-n-dipropylamine													
Hexachloroethane													
Nitrobenzene													
Isophorone													
2-Nitrophenol				R									
2,4-Dimethylphenol				R									
Benzoic acid				R	100			J		110	J		
bis(2-Chloroethoxy)methane													
2,4-Dichlorophenol				R									
1,2,4-Trichlorobenzene													
Naphthalene										J	J		
4-Chloroaniline													
Hexachlorobutadiene													
4-Chloro-3-Methylphenol				R									
2-Methylnaphthalene										J	J	J	J
Hexachlorocyclopentadiene													
2,4,6-Trichlorophenol				R									
2,4,5-Trichlorophenol				R									
2-Chloronaphthalene													
2-Nitroaniline													
Dimethylphthalate													
Acenaphthylene											J	J	J
2,6-Dinitrotoluene													
3-Nitroaniline													
Acenaphthene													
2,4-Dinitrophenol				R									
4-Nitrophenol				R									
Dibenzofuran													
2,4-Dinitrotoluene													
Diethylphthalate													
4-Chlorophenyl-phenyl ether													
Fluorene											J		
4-N troaniline													
4,6-Dinitro-2-methylphenol				R									
N-nitrosodiphenylamine													
4-Bromophenyl-phenyl ether													
Hexachlorobenzene													

SITE NAME: [illegible]LL URBAN INDUSTRIAL PA
TDD# 02 90[illegible]
SAMPLING DATE: 6/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

TABLE 3
SITE INSPECTION SA[illegible] RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

SEMI-VOLATILES													
Sample ID No.	NJFL-SED4	NJFL-SED5	NJFL-S1	NJFL S2(MS/MSD)	NJFL-S3	NJFL-S4	NJFL S5	NJFL-S6(DUP)	NJFL-RIN1	NJFL-RIN2	NJFL-RIN3	NJFL-RIN4	NJFL-TBLK1
Traffic Report No.	BDN88	BDN89	BDN91	BDN92	BDN93	BDN94	BDN95	BDN96	BDN99	BED01	BED02	BED03	BED05
Matrix	SEDIMENT	SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Dilution factor/GPC Cleanup (Y)	1	5(MED)	1	1	1	10	1	1	1	1	1	1	N/A
Percent Moisture	23	25	9	11	4	22	6	3	--	--	--	--	N/A
Phenol			R										NR
bis(2-Chloroethyl)ether													NR
2-Chlorophenol			R										NR
1,3-Dichlorobenzene													NR
1,4-Dichlorobenzene					J			J					NR
Benzyl alcohol													NR
1,2-Dichlorobenzene													NR
2-Methylphenol			R										NR
bis(2-Chloroisopropyl)ether													NR
4-Methylphenol			R										NR
N-Nitroso-di-n-dipropylamine													NR
Hexachloroethane													NR
Nitrobenzene					J								NR
Isophorone													NR
2-Nitrophenol			R										NR
2,4-Dimethylphenol			R										NR
Benzoic acid			R		J		J	J					NR
bis(2-Chloroethoxy)methane													NR
2,4-Dichlorophenol			R										NR
1,2,4-Trichlorobenzene													NR
Naphthalene			J	J	490 E		J	440 E					NR
4-Chloroaniline													NR
Hexachlorobutadiene					J			J					NR
4-Chloro-3-Methylphenol			R										NR
2-Methylnaphthalene	J	J	J	J	620 E		J	580 E					NR
Hexachlorocyclopentadiene													NR
2,4,6-Trichlorophenol			R										NR
2,4,5-Trichlorophenol			R										NR
2-Chloronaphthalene													NR
2-Nitroaniline													NR
Dimethylphthalate													NR
Acenaphthylene	J	J		J	J		J	J					NR
2,6-Dinitrotoluene													NR
3-Nitroaniline													NR
Acenaphthene				J	J		J	J					NR
2,4-Dinitrophenol			R										NR
4-Nitrophenol			R										NR
Dibenzofuran					J			J					NR
2,4-Dinitrotoluene													NR
Diethylphthalate													NR
4-Chlorophenyl-phenyl ether													NR
Flu ene				J									NR
4-Nitroaniline													NR
4,6-Dinitro-2-methylphenol			R										NR
N-nitrosodiphenylamine													NR
4-Bromophenyl-phenyl ether													NR
Hexachlorobenzene													NR

09/24/90

SITE NAME: [redacted]LL URBAN INDUSTRIAL PARK
TDD#: 02-9004-[redacted]
SAMPLING DATE: 6/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

TABLE 3[redacted]
SITE INSPECTION SA[redacted] RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

SEMI-VOLATILES													
Sample ID No.	NJFL-GW1	NJFL-GW2	NJFL-GW3	NJFL-GW4	NJFL-SW1	NJFL-SW2	NJFL-SW3	NJFL-SW4(MS/MSD)	NJFL-SW7	NJFL-SW8(DUP)	NJFL-SED1	NJFL-SED2	NJFL-SED3
Traffic Report No.	BDN73	BDN74	BDN75	BDN76	BDN77	BDN78	BDN79	BDN80	BDN83	BDN84	BDN85	BDN86	BDN87
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Dilution Factor/GPC Cleanup (Y)	1	1	1	1	1	1	1	1	1	1	1	5	1
Percent Moisture	--	--	--	--	--	--	--	--	--	--	22	27	13
Pentachlorophenol				R									
Phenanthrene											J	J	
Anthracene											J		
Di-n-butylphthalate					J								
Fluoranthene												J	
Pyrene											J	J	
Butylbenzylphthalate					J					J	5200 E	J	
3,3'-Dichlorobenzidine											J	J	
Benzo(a)anthracene											J	J	
Chrysene					11 E		15	J	J	33			
bis(2-Ethylhexyl)phthalate											7900 E	J	
Di-n-octylphthalate											J	J	
Benzo(b)fluoranthene											J	J	
Benzo(k)fluoranthene												J	
Benzo(a)pyrene												J	
Indeno(1,2,3-cd)pyrene												J	
Dibenz(a,h)anthracene													
Benzo(g,h,i)perylene													

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

02-9004-17-SI
Rev. No. 0

SITE NAME: [illegible]KILL URBAN INDUSTRIAL PA
TDD#: 02-9004-17
SAMPLING DATE: 6/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

TABLE [illegible]
SITE INSPECTION SA[illegible]E RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

SEMI-VOLATILES	NJFL-SED4	NJFL-SED5	NJFL-S1	NJFL-S2(MS/MSD)	NJFL-S3	NJFL-S4	NJFL-S5	NJFL-S6(DUP)	NJFL-RIN1	NJFL-RIN2	NJFL-RIN3	NJFL-RIN4	NJFL-TBLR1
Sample ID No.	BDN88	BDN89	BDN91	BDN92	BDN93	BDN94	BDN95	BDN96	BDN99	BED01	BED02	BED03	BED05
Traffic Report No.	SEDIMENT	SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Matrix	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Units	1	5(MED)	1	1	1	10	1	1	1	1	1	1	N/A
Dilution Factor/GPC Cleanup (Y)	23	25	9	11	4	22	6	3	--	--	--	--	N/A
Percent Moisture													
Pentachlorophenol			R										NR
Phenanthrene	J		400 E	1400 E	940 E		880 E	850 E					NR
Anthracene				400 E	J		J	J					NR
Di-n-butylphthalate					J			J					NR
Fluoranthene		J	J	2000 E	670 E	J	1200 E	690 E					NR
Pyrene			J	2000 E	1000 E	J	1500 E	1100 E					NR
Butylbenzylphthalate	J			670 E	1200 E			1100 E					NR
3,3'-Dichlorobenzidine													NR
Benzo(a)anthracene			J	1100 E	430 E		740 E	450 E					NR
Chrysene	J		J	1300 E	730 E	J	870 E	730 E					NR
bis(2-Ethylhexyl)phthalate								1600 E		39			NR
Di-n-octylphthalate													NR
Benzo(b)fluoranthene			J	1100 E	590 E		800 E	630 E					NR
Benzo(k)fluoranthene			J	990 E	420 E		620 E	360 E					NR
Benzo(a)pyrene			J	1100 E	J		580 E	380 E					NR
Indeno(1,2,3-cd)pyrene				620 E	370 E		530 E	440 E					NR
Dibenz(a,h)anthracene				J	J		J	J					NR
Benzo(g,h,i)perylene				620 E	500 E		660 E	570 E					NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

TABLE
SITE INSPECTION [illegible]E RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

SITE NAM[illegible] KILL URBAN INDUSTRIAL PARK
IDDN: 0[illegible]
SAMPLING DATE: 6/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

PESTICIDES	NJFL-GW1	NJFL-GW2	NJFL-GW3	NJFL-GW4	NJFL-SW1	NJFL-SW2	NJFL-SW3	NJFL-SW4(MS/MSD)	NJFL-SW7	NJFL-SW8(DUP)	NJFL-SED1	NJFL-SED2	NJFL-SED3
Sample ID No.	BDN73	BDN74	BDN75	BDN76	BDN77	BDN78	BDN79	BDN80	BDN83	BDN84	BDN85	BDN86	BDN87
Traffic Report No.	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SEDIMENT	SEDIMENT	SEDIMENT
Matrix	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg
Units	1	1	1	1	1	1	1	1	1	1	1	1	1
Dilution Factor/GPC Cleanup (Y)	--	--	--	--	--	--	--	--	--	--	22	27	13
Percent Moisture													
alpha-BHC													
beta-BHC													
delta-BHC													
gamma-BHC (Lindane)													
Heptachlor													
Aldrin													
Heptachlor epoxide													
Endosulfan I													
Dieldrin													
4,4'-DDE													
Endrin							JN						
Endosulfan II													
4,4'-DDD													
Endosulfan sulfate													
4,4'-DDT								0.19					
Methoxychlor							R						
Endrin ketone													
alpha-Chlordane													J
gamma-Chlordane												J	
Toxaphene													
Aroclor-1016													
Aroclor-1221													
Aroclor-1232													
Aroclor-1242											7000 E	2900 E	
Aroclor-1248													
Aroclor-1254													
Aroclor-1260													

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - Analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

Rev. No. 0

SITE NAME: [redacted]ILL URBAN INDUSTRIAL PA
IDDB: 02-[redacted]
SAMPLING DAT[redacted]/13/90
EPA CASE NO.: 14277 LAB: INTECH BIOLABS

TABLE 3
SITE INSPECTION SAM[redacted] RESULTS
ARTHUR KILL URBAN IN[redacted]IAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

PESTICIDES	NJFL-SED4	NJFL-SED5	NJFL-S1	NJFL-S2(MS/MSD)	NJFL-S3	NJFL-S4	NJFL-S5	NJFL-S6(DUP)	NJFL-RIN1	NJFL-RIN2	NJFL-RIN3	NJFL-RIN4	NJFL-TBLK1
Sample ID No.	BDN88	BDN89	BDN91	BDN92	BDN93	BDN94	BDN95	BDN96	BDN99	BED01	BED02	BED03	BED05
Traffic Report No.	SEDIMENT	SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
Matrix	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l	ug/L	ug/L	ug/L	ug/L
Units	1	1(MED)	1	1	1	1	1	1	1	1	1	1	N/A
Dilution Factor/GPC Cleanup (Y)	23	25	9	11	4	22	6	3	--	--	--	--	N/A
Percent Moisture													
alpha-BHC						J							NR
beta-BHC						1100 E							NR
delta-BHC													NR
gamma-BHC (Lindane)						48 E							NR
Heptachlor						230 E							NR
Aldrin													NR
Heptachlor epoxide													NR
Endosulfan I													NR
Dieldrin													NR
4,4'-DDE		650 E				660 E							NR
Endrin						730 E							NR
Endosulfan II		690 E				180 E							NR
4,4'-DDD						380 E							NR
Endosulfan sulfate				34 E									NR
4,4'-DDT		610 E								0.1	0.11	0.11	NR
Methoxychlor													NR
Endrin ketone													NR
alpha-Chlordane		J											NR
gamma-Chlordane													NR
Toxaphene													NR
Aroclor-1016													NR
Aroclor-1221													NR
Aroclor-1232													NR
Aroclor-1242													NR
Aroclor-1248			10000 E		3300 E			5000 E					NR
Aroclor-1254					3200 E		630 E	4500 E					NR
Aroclor-1260													NR

NOTES:
Blank space - compound analyzed for but not detected
B - compound found in lab blank as well as sample, indicates possible/probable blank contamination
E - estimated value
J - estimated value, compound present below CRQL but above IDL
R - analysis did not pass EPA QA/QC
N - Presumptive evidence of the presence of the material
NR - analysis not required
Detection limits elevated if Dilution Factor >1 and/or percent moisture >0%

02-9004-17-SI
Rev. No. 0

SITE NAME: A[illegible]L URBAN INDUSTRIAL PARK
IDD#: 02-900[illegible]
SAMPLING DATE: [illegible]/[illegible]/90
EPA CASE NO.: 14277
LAB NAME: COMPUCHEM

TABLE 3
SITE INSPECTION SA[illegible] RESULTS
ARTHUR KILL URBAN IN[illegible]RIAL PARK
PERTH AMBOY, NEW JERSEY
(cont'd)

INORGANICS Sample ID No. Traffic Report No. Matrix Units	NJFL-GW1 MBCY90 WATER ug/L	NJFL-GW2 MBCY91 WATER ug/L	NJFL-GW3 MBCY92 WATER ug/L	NJFL-GW4 MBCY93 WATER ug/L	NJFL-SW1 MBCY94 WATER ug/L	NJFL-SW2 MBCY95 WATER ug/L	NJFL-SW3 MBCY96 WATER ug/L	NJFL-SW4(MS/MSD) MBCY97 WATER ug/L	NJFL-SW7 MBCS01 WATER ug/L	NJFL-SW8(DUP) MBCS02 WATER ug/L	NJFL-SED1 MBCS03 SEDIMENT mg/kg	NJFL-SED2 MBCS04 SEDIMENT mg/kg	NJFL-SED3 MBCS05 SEDIMENT mg/kg
Aluminum	845	454	433	21500	424	316	749	208	J	455	3740	6270	24500
Antimony	421	J		J	J		223	120 E	J	J	R	R	R
Arsenic	J	13.3	J	J	J	18.4	1020	796	J	J	10.7 E	24.4 E	413 E
Barium	J	J	J	J	J	J	J	J	J	J	J	87.1 E	1420 E
Beryllium				7.3							J	J	1.2
Cadmium	6.9			7.1			11.3				7.6	4.2	41.5
Calcium	54000	54500	233000	256000	59600	54000	108000	107000	65500	59000	3160	9800	66600
Chromium	J			37.4 E	J					J	35.7	44.5	20.6
Cobalt	J	J		1130			53.4	J			J	15.9 E	1610 E
Copper	287	J	31.7	56.5	44.7	J	111	J	J	47.6	593 E	466 E	3530 E
Iron	20100 E	12800 E	2010 E	116000 E	3500 E	5160 E	7480 E	4240 E	1150 E	4370 E	8770	15200	201000
Lead	3640	290	57.6 E	1190	24.2 E	40 E	267	16.1 E	80.7 E	22.8 E	173	607	17300
Magnesium	5790	11200	19400	159000	9480	8010	32800	49800	5040	9550	1480	2070	12200
Manganese	738	613	388	18600	414	1160	477	418	148	413	70.8	166	2560
Mercury			0.41	0.39							0.32	0.87	0.3
Nickel	159			921			287	120			59.4 E	93.2 E	1820 E
Potassium	J	5950	21600	9800	11900	J	16300	21400	7020	11600			4200
Selenium							R				R	R	R
Silver											R	R	R
Sodium	19300	45000	70600	255000	116000	66300	405000	533000	149000	116000	J	J	5560
Thallium													
Vanadium				J							J	27.2 E	49.6 E
Zinc	2000	290	89.4	2930	147	63.3	1950	412	243	156	764	1310	43000 E
Cyanide	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR			

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

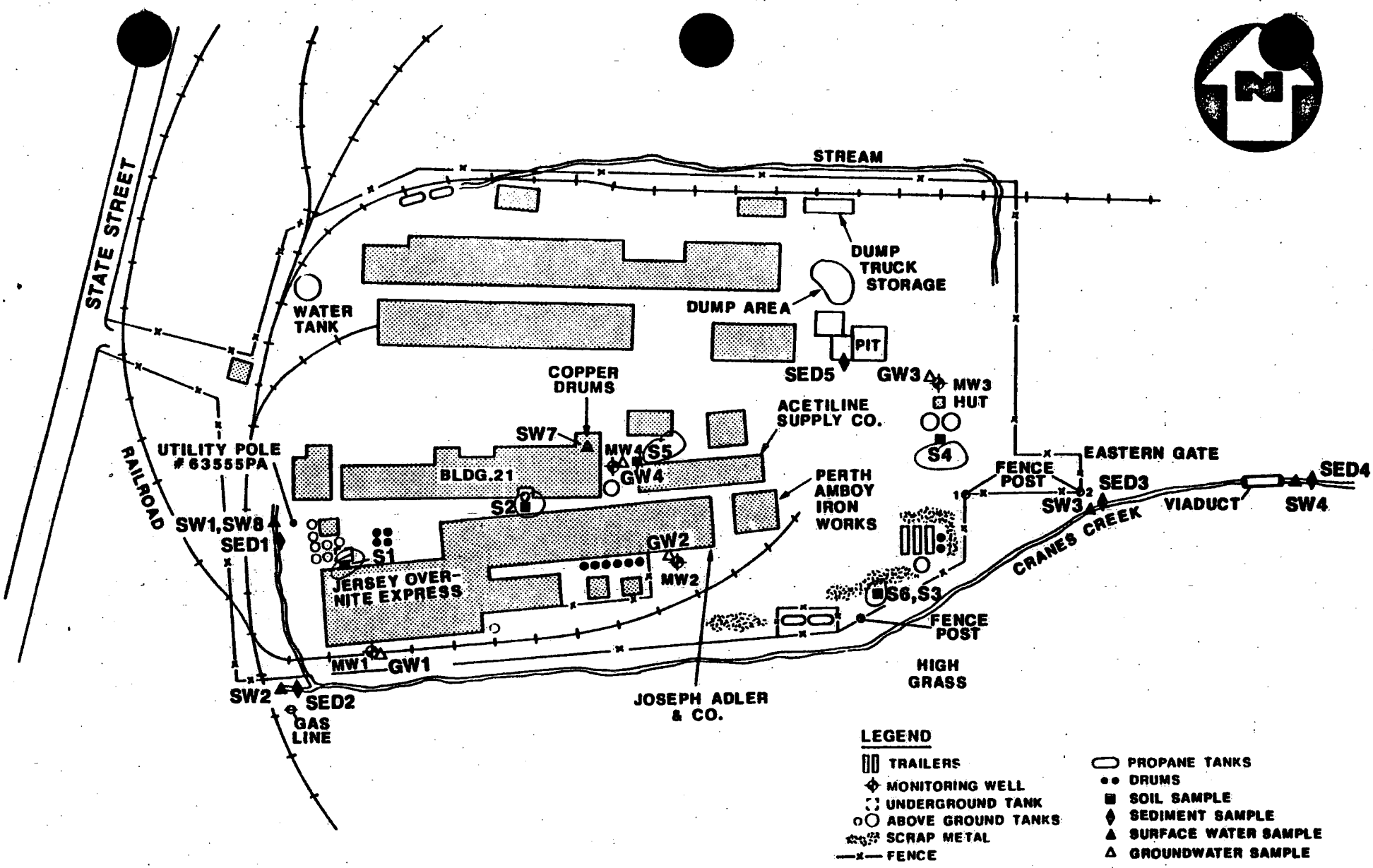
TABLE 3
SITE INSPECTION SAMPLING RESULTS
ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY

SITE NAME: AR[illegible] URBAN INDUSTRIAL PA
IDCN C2-9005
SAMPLING DATE: 6/13/90
EPA CASE NO.: 14277
LAB NAME: COMPUCHEM

INORGANICS	NJFL-SED4	NJFL-SED5	NJFL-S1	NJFL-S2(MS/MSD)	NJFL S3	NJFL-S4	NJFL-S5	NJFL-S6(DUP)	NJFL-RIN1	NJFL-RIN2	NJFL-RIN3	NJFL-RIN4	NJFL-IBLK1
Sample ID No.	MBCS06	MBCS07	MBCS09	MBCS10	MB S11	MBCS12	MBCS13	MBCS14	MBCS17	MBCS18	MBCS19	MBCS20	N/A
Traffic Report No.	SEDIMENT	SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER	N/A
Matrix	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L
Units													
Aluminum	28600	74.3	13500	58100	6540	4380	3850	5770	J	J	J	J	NR
Antimony	R	17.4	R	R	R	R	R	R					NR
Arsenic	795 E	8.5 E	452 E	94 E	406 E	775 E	406 E	506 E					NR
Barium	1620 E	J	392 E	828 E	752 E	171 E	410 E	855 E	J	J	J	J	NR
Beryllium	1.4		1.7	8.4	J		J	J					NR
Cadmium	64.8	1.8	13.4	2	16.3	26.9	18.6	17.6					NR
Calcium	81100	J	17690	17600	5590	2350	7760	2590	J	J	J	J	NR
Chromium	62.8	6.1	52.5	227	191	37.8	134	216					NR
Cobalt	1380 E		102 E	134 E	30.8 E	J	11.8 E	24.4 E					NR
Copper	3320 E	44.3	2500 E	11000 E	3460 E	2070 E	1250 E	3320 E					NR
Iron	235000	567	75800	95500	98200	38600	49000	95400	J	139 E	J	J	NR
Lead	18500	1320	23100	805	58600	40300	64800	62500		10 E			NR
Magnesium	15300	J	4570	3880	1730	1440	2180	1450					NR
Manganese	3210	7.7 E	530	307	762	197	228	777		J			NR
Mercury	0.53		3.6		4.8	5.4	2.4	5.1					NR
Nickel	924 E		326 E	4560 E	219 E	55.7 E	101 E	224 E					NR
Potassium	5170			7280									NR
Selenium	R		R	R	R	R	R	R					NR
Silver	R		R	R	R	R	R	R					NR
Sodium	4910	J	2310	2460	J	J	J	J	J	J	J	J	NR
Thallium													NR
Vanadium	59.2 E		113 E	96.2 E	39.9 E	162 E	27.3 E	41.7 E					NR
Zinc	42700	351 E	3760	4270	4010	1020	957	3200	J	31.1	J	J	NR
Cyanide					1.2 E		0.61 E	0.95 E	NR	NR	NR	NR	NR

NOTES:
Blank space - compound analyzed for but not detected
E - estimated value
J - estimated value, compound present below CRDL but above IDL
R - analysis did not pass EPA QA/QC
NR - analysis not required

C2-9005-17-01
Rev. No. 0



SAMPLE LOCATION MAP

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, N.J.

NOT TO SCALE

FIGURE 4

NUS CORPORATION

02-9004-17-S1
Rev. No. 0

PART V: HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. **Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.**

The on-site monitoring wells are screened in the terminal moraine formation beneath the site and exhibit shallow static water levels that are potentially hydraulically connected to the tidally-influenced Arthur Kill. General shallow groundwater flow in the area is in an eastward direction toward the Arthur Kill. The sampled upgradient monitoring well No. 1 is located to the southwest of the Jersey Overnite Express building. The remaining three sampled wells were downgradient monitoring wells located eastward and closer to the Arthur Kill. Analytical results indicate a release to the shallow water-bearing formation of various contaminants which are present at elevated concentrations downgradient when compared to concentrations detected in the upgradient monitoring well. Acetone, 1,1-dichloroethane, and 1,1,1-trichloroethane were detected at concentrations as high as 32 ug/L, 47 ug/L, and 55 ug/L respectively in the downgradient wells. These compounds were not detected in the upgradient monitoring well. Inorganic constituents detected in the downgradient well samples include aluminum, beryllium, cobalt, magnesium, chromium, iron, manganese, and nickel at concentrations ranging from 5 to 32 times higher downgradient than were found in the upgradient well sample.

All volatile organic compound (VOC) contaminants detected can be associated with F001 wastes (spent halogenated solvents) detected on the site previously. Refer to Table 1 in Part III of this report for a summary of contaminants detected in a disposal pit and a sewer access hole. Inorganic constituents listed above are attributable to the site, as each on-site soil sample exhibits notable levels of these constituents as well, and may also be attributable to past smelting activities at the site.

It should be noted that based on the sample analytical results (Table 3) and its location on site, that the upgradient monitoring well No. 1 may not be totally upgradient of all of the on-site waste sources.

Ref. Nos. 3, pp. 12-13; 6, pp. 5-12; 26

2. **Describe the aquifer of concern; include information such as depth, thickness, geologic composition, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.**

The site is located in the Atlantic Coastal Plain Sole Source Aquifer System. The site is underlain by approximately 50 feet of terminal moraine which is composed of a mixture of red clay, sand, gravel, and a few boulders. Underlying this layer is the Woodbridge Clay. This layer acts as a confining layer and is approximately 60 feet thick. This layer has a permeability of less than 10^{-7} cm/sec.

Underlying the Woodbridge Clay is the Farrington Sand, which is the aquifer of concern. This aquifer consists of coarse- to fine-grained sand with lignite and pyrite, and is approximately 25 feet thick. The permeability of the Farrington Sand is approximately 10^{-3}-10^{-5} cm/sec. The direction of deep groundwater flow in the area is generally south. Flow of shallow groundwater is east toward the Arthur Kill. The depth to the Farrington Sand aquifer is approximately 110 feet. It was noted during on-site sampling activities that static water levels in the shallow monitoring wells ranged from 5 to 7 feet below the ground surface.

Ref. Nos. 6, pp. 5-12; 9; 10; 11; 12, pp. A-7 to A-8, Plates I and VI; 13; pp. 16-19, 54-55, 102-109; 14; 20, pp. 12-13

3. **Is a designated sole source aquifer within 3 miles of the site?**

The site is located above the Atlantic Coastal Plain Aquifer System. This aquifer system is a designated sole source aquifer system.

Ref. No. 9

4. **What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?**

The estimated depth from the disposal pit (approx. 20 ft. deep) and the UST in the concrete vault (approx. 10 ft. below ground), to the Farrington Sand Aquifer is between 90 and 100 feet.

Ref. Nos. 5, pp. 7-8; 6, pp. 5-12

5. **What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?**

The Woodbridge Clay layer acts as a confining layer and is approximately 60 feet thick. This layer has a permeability of less than 10^{-7} cm/sec.

Ref. Nos. 11; 12, Plate VI

6. **What is the net precipitation for the area?**

The estimated net annual precipitation is 11 inches.

Ref. No. 11

7. **Identify uses of groundwater within 3 miles of the site (i.e., private drinking source, municipal source, commercial, industrial, irrigation, unusable).**

Uses of groundwater within 3 miles of the site include industrial and commercial supply. Perth Amboy and Woodbridge Township receive their groundwater supplies from wellfields outside of the site's 3-mile radius.

Ref. Nos. 10, 15, 16, 17, 18

8. **What is the distance to and depth of the nearest well that is currently used for drinking or irrigation purposes?**

There is no known well supply for potable or irrigation purposes within the 3-mile radius area.

Ref. Nos. 10, 15, 16, 17, 18

9. **Identify the population served by the aquifer of concern within a 3-mile radius of the site.**

There are no identified population served by wells located within 3 miles of the site that draw from the Farrington Sand aquifer.

Ref. Nos. 10, 15, 16, 17, 18

SURFACE WATER ROUTE

10. Describe the likelihood of a release of contaminant(s) to surface water as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminants to the facility.

The Arthur Kill Urban Industrial Park Site property is the originating point for Cranes Creek. The creek's origin is west of the building housing Jersey Overnite Express and continues south before turning east to follow the block line forming the site's southern border. A secondary tributary enters Cranes Creek at the southwest corner of the site. Upstream surface water and sediment samples were collected from the origin of Cranes Creek (SW1/SED1) and from the secondary tributary (SW2/SED2) at a point just upstream of where it joins the main creek flow at the southwest corner of the property. Downstream samples were collected from Cranes Creek at the southeast corner of the site and at a point several hundred feet west of the Arthur Kill River (SW4/SED4). Sample analysis indicates a release of numerous inorganic constituents in both the surface water and sediment of Cranes Creek. The contaminants (antimony, arsenic, cobalt, lead, manganese, nickel, and zinc) ranged from a low of 5 times to a high of 287 times more concentrated in the downstream surface water samples than those in the upgradient surface water samples. In the sediments, inorganic contaminants (aluminum, arsenic, cadmium, cobalt, copper, iron, lead, manganese, magnesium, nickel, and zinc) similarly ranged from 4 to 102 times more concentrated in downstream sediment samples than in upstream sediment samples. These contaminants are attributable to the site when compared to analytical results of soil samples collected from the site, and are also attributable to past smelting activities at the site.

The Arthur Kill Urban Industrial Park Site is within a 100-year flood zone and is marginally above the Arthur Kill River. An inundation of even a part of the on-site contaminated soils would carry this material and sediments from the site.

Ref. Nos. 5, pp. 18-31; 25; 26

11. Identify and locate the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.

The nearest downslope surface water is Cranes Creek, located adjacent to and south of the site. On-site drainage patterns consist of generalized overland drainage to the creek. The creek is tidally-influenced and is a source tributary to the Arthur Kill River, which is located less than 1,000 feet downstream. Thus, flow during ebb (southerly) and flowing (northerly) tides may cause waste transport to either the northern part of the Arthur Kill or the southern part which leads to Raritan Bay.

Ref. No. 17, 20

12. What is the facility slope in percent? (Facility slope is measured from the highest point of deposited hazardous waste to the most downhill point of the waste area or to where contamination is detected.)

The facility slope is estimated to be less than 3 percent from north to south.

Ref. No. 17

13. What is the slope of the intervening terrain in percent? (Intervening terrain slope is measured from the most downhill point of the waste area to the probable point of entry to surface water.)

The slope of the intervening terrain is less than 3 percent.

Ref. No. 17

14. **What is the 1-year 24-hour rainfall?**

The 1-year 24-hour rainfall is estimated to be 2.7 inches.

Ref. No. 11

15. **What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.**

Cranes Creek forms the southern border of the site. Analytical results indicate contaminants from the site are being released to the surface water body.

Ref. Nos. 17, 26

16. **Identify uses of surface waters within 3 miles downstream of the site (i.e., drinking, irrigation, recreation, commercial, industrial, not used).**

The Arthur Kill (and its saline tributaries; i.e., Cranes Creek) and Raritan Bay are used for primary and secondary contact recreation; maintainence, migration, and propagation of natural and established biota, and other reasonable uses.

Ref. No. 21, pp. 26, 87, 99

17. **Describe any wetlands, greater than 5 acres in area, within 2 miles downstream of the site. Include whether it is a freshwater or coastal wetland.**

There are coastal wetlands south of Cranes Creek on Tax Block 429 that are greater than 5 acres in size. These wetlands can be described as both esturaine intertidal flat and emergent wetlands.

Ref. No. 5, pp. 8

18. **Describe any critical habitats of federally listed endangered species within 2 miles of the site along the migration path.**

There are no identified critical habitats of federally listed endangered species within 2 miles of the site.

Ref. No. 22

19. **What is the distance to the nearest sensitive environment along or contiguous to the migration path (if any exist within 2 miles)?**

The distance from the coastal wetlands on Tax Block 429 (south bank of Cranes Creek) to the site border is less than 100 feet.

Ref. No. 5, pp. 8

20. **Identify the population served or acres of food crops irrigated by surface water intakes within 3 miles downstream of the site and the distance to the intake(s).**

There are no surface water intakes in the Arthur Kill or Raritan Bay within 3-miles downstream of the site.

Ref. Nos. 17, 23

21. What is the state water quality classification of the water body of concern?

The state water quality classification for the Arthur Kill (and its saline tributaries; ie. Cranes Creek) in the Perth Amboy area is SE-2. Designated uses for SE-2 waters are: maintainence, migration and propagation of natural and established biota; migration of diadromous fish; and secondary contact recreation. The state water quality classification of Raritan Bay is FW2-NT/SE1. Designated uses for these classes and (in addition to those listed above): potential public potable water supply after required treatment (not currently used); and regulated shellfish harvesting.

Ref. No. 21, pp. 26, 87, 99

22. Describe any apparent biota contamination that is attributable to the site.

There is no apparent biota contamination that is attributable to the site.

Ref. No. 5

AIR ROUTE

23. Describe the likelihood of a release of contaminant(s) to the air as follows: observed, alleged, potential, none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

No readings above background were detected in the air by the Organic Vapor Analyzer (OVA) or HNu photoionization meter prior to the disturbance of the soils or liquids during the on-site reconnaissance or the site investigation sampling activities. There is a potential for a release of airborne particulates during dry, dusty, and windy conditions. Analytical results indicate the presence of numerous hazardous contaminants including PCBs and metals in on-site surface soils.

Ref. Nos. 5, 6, 26

24. What is the population within a 4-mile radius of the site?

The population within a 4-mile radius of the site is approximately 141,000.

Ref. No. 24

FIRE AND EXPLOSION

25. Describe the potential for a fire or explosion to occur with respect to the hazardous substance(s) known or suspected to be present on site. Identify the hazardous substance(s) and the method of storage or containment associated with each.

Based on field observations, there is a low potential for a fire or explosion to occur. Although many of the waste units or areas of concern may contain waste oil in some form, each is located in isolated locations. These have been unmonitored since abandonment.

Ref. No. 5

26. What is the population within a 2-mile radius of the hazardous substance(s) at the facility?

The population within a 2-mile radius is approximately 56,000.

Ref. No. 24

DIRECT CONTACT/ON-SITE EXPOSURE

27. **Describe the potential for direct contact with hazardous substance(s) stored in any of the waste units on site or deposited in on-site soils. Identify the hazardous substance(s) and the accessibility of the waste unit.**

The site is surrounded by a fence, with a guardhouse to stop unauthorized after-hours vehicle entry. The Arthur Kill Urban Industrial Park Site contains numerous active tenants with employees operating on site. Employees may potentially come in contact with waste units and/or areas of concern during the course of normal business activity. Analytical results indicate the presence of numerous contaminants in surface soil samples at concentrations considerably higher than those expected in natural soil. Casual contact potential is low for bermed or underground structures, except for the pit area, which is loosely covered without guardrail protection.

Ref. Nos. 5, pp. 6, 8; 26

28. **How many residents live on a property whose boundaries encompass any part of an area contaminated by the site?**

There are no residents living on property whose boundaries are adjacent to the site.

Ref. No. 17

29. **What is the population within a 1-mile radius of the site?**

The population within a 1-mile radius is approximately 10,000.

Ref. No. 24

PART VI: ACTUAL HAZARDOUS CONDITIONS

Analytical results indicate there are currently contaminated groundwater, surface water, soils, and sediments at the site. There is no current monitoring of the site by a regulatory agency or by the property owners.

The following hazardous conditions exist at the site:

- Analytical results from a sediment sample collected from the disposal pit indicate the presence of ethybenzene (1200 ug/kg) and several pesticides.
- There are abandoned waste oils present in various storage tanks located throughout the property.
- Inorganic constituents at notable levels in soils at all on-site sampled locations.
- The presence of polychlorinated biphenyls (PCBs) in the soils at four of five on-site sampled locations at levels of concern.
- The presence of several pesticides in soil samples, particularly at the NJFL-S4 location.
- Areas of waste deposition (ie. construction/demolition debris) that contain polyaromatic hydrocarbons.

There is a chainlink fence around the site perimeter with a guard station at the entrance. The various waste units and areas of concern lie within the site fencing. There is potential on-site exposure by both workers and other employees of the tenants leasing space at the site.

No other actual hazardous conditions pertaining to human or environmental contamination have been documented. Specifically:

- Contamination has not been documented either in organisms in a food chain leading to humans or in organisms directly consumed by humans.
- There have been no documented observed incidents of direct physical contact with hazardous substances at the facility involving a human being (not including occupational exposure) or a domestic animal.
- Based on field observation, there does not appear to be a significant threat of fire or explosion.
- There have been no documented release to the air from the facility.

Ref. Nos. 5, pp. 6-10, 22-31; 6, pp. 5-12; 26

PART VII: SITE SUMMARY AND RECOMMENDATIONS

The Arthur Kill Urban Industrial Park Site is an active space-leasing facility located adjacent to the Arthur Kill River in Perth Amboy, New Jersey. The site is located in an industrial area where metals refining/smelting, and oil-related tank storage has been carried out since approximately the early 1900s. Previous owners of the property include: R.H. Sayre, Lehigh Railroad Co. of New Jersey, United Lead Co., National Lead Co., N.L. Industries, and the Arthur Kill Urban Industrial Park. The current owners are Custom Distribution Services, Inc., and Neuberne H. and Catherine Brown. The Arthur Kill Urban Industrial Park accounts for approximately one-third of the former NL Industries Perth Amboy facility.

The various property owners developed and constructed buildings, above and belowground tanks and other facilities generic to conducting their particular types of businesses. Various parts of the site are currently or were previously used as areas of on-site disposal of debris consisting of battery casings, construction debris, and other materials.

In the early 1980s, the Town of Perth Amboy discovered that various parts of it's sewer system were contaminated with PCBs. The NJDEP conducted a sampling survey to determine the areal distribution and potential sources of the contamination. Analytical results of various samples collected at the industrial park during this survey determined that PCBs were present at various locations throughout the site; however, actual determination of the industrial park as a source was inconclusive. There is presently no known continuing activity that addresses this PCB contamination.

Analytical results of samples collected on June 13, 1990 by NUS Corporation Region 2 FIT indicate a release of contaminants to surface water and shallow groundwater. Elevated concentrations of metals, pesticides and PCBs were detected in sediments and soils. Public access is restricted by fencing around the site perimeter and a guardhouse. There is potential for direct access and contact by employees with hazardous substances in the soils which are adjacent to travel and work areas. Releases to air have not been documented in the past operation; however, there is a potential for a release of contaminated soil particulates to the air. Groundwater and surface water in the area are not used as a drinking water source. This site is recommended for an EXPANDED SITE INSPECTION based on a documented release to groundwater and surface water, and the potential for direct contact with contaminated soil by employees of on-site tenants and the potential for a release of contaminated soil particulates to the air.

ATTACHMENT 1

ARTHUR KILL URBAN INDUSTRIAL PARK

PERTH AMBOY, NEW JERSEY

Exhibit A: Reconnaissance Photograph Log
Exhibit B: Site Inspection Photograph Log

EXHIBIT A

PHOTOGRAPH LOG

ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY

ON-SITE RECONNAISSANCE: MAY 17, 1990

ARTHUR KILL URBAN INDUSTRIAL PARK
PETH AMBOY, NEW JERSEY
MAY 17, 1990

PHOTOGRAPH LOG

ALL PHOTOGRAPH WERE TAKEN BY BRUCE SANDERS

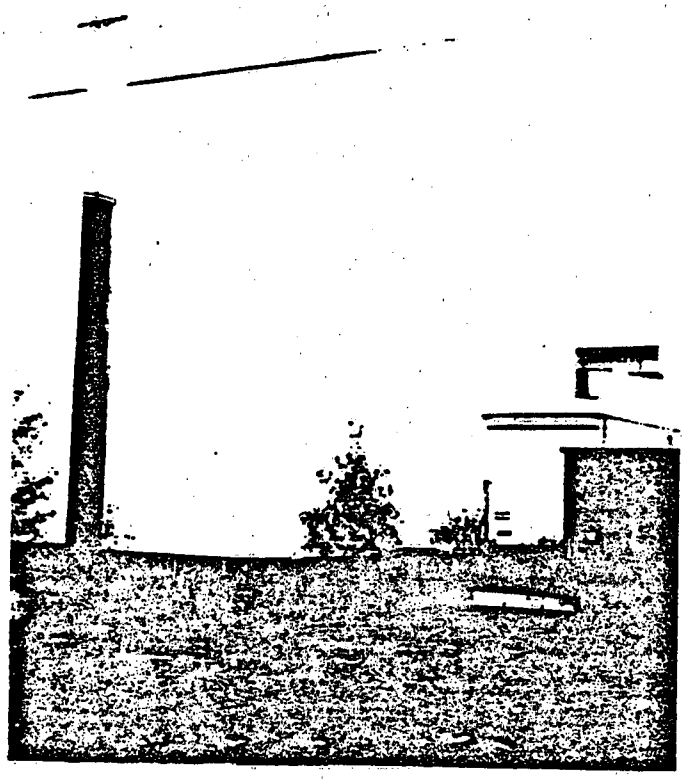
Photo Number	Description	Time
1P-1	Origination point of Cranes Creek on site property.	1041
1P-2	Northward view of Cranes Creek origination point.	1045
1P-3	Aboveground storage tanks located in the tank farm located near the southwestern corner of property.	1049
1P-4	Abandoned tank located between Jersey Overnite Express building and fence (Note: Damp area beneath tank).	1055
1P-5	View of concrete cover of vault containing a large underground storage tank near tank farm in southwestern corner.	1057
1P-6	Drum storage along south wall exterior of J. Adler and Co.	1107
1P-7	Miscellaneous scrap metal and other debris stored near southeast corner of property.	1122
8	Abandoned aboveground storage tanks near eastern property perimeter, drums, and metal debris.	1125
1P-9	Location of the disposal pit with plywood cover material, next to a small building.	1132
1P-10	Waste pile of miscellaneous debris near northeast corner of site property.	1148
1P-11	Large abandoned aboveground storage tank marked with label stating contents contain PCBs.	1156

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-1 May 17, 1990
Origination point of Cranes Creek on site property. 1041

1P-2 May 17, 1990
Northward view of Cranes Creek origination point. 1045

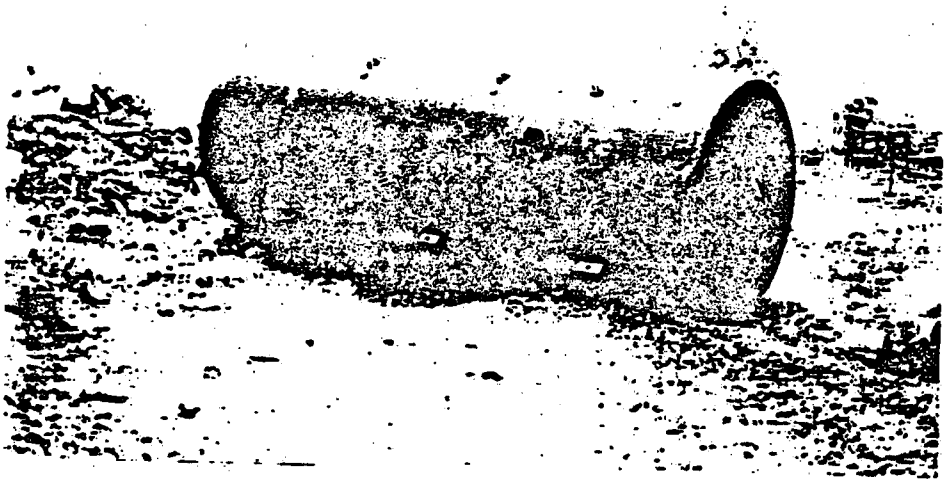
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY



1P-3 May 17, 1990 1049

Aboveground storage tanks located in the tank farm located near the southwestern corner of property.

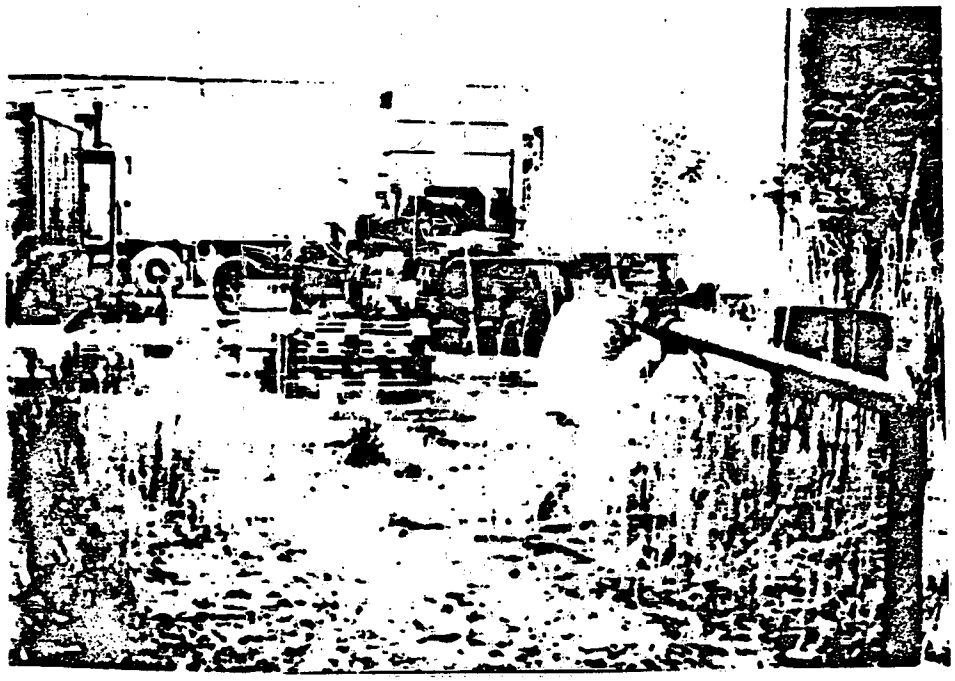
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY



1P-4

May 17, 1990 1055
Abandoned tank located between Jersey Overnite Express building and fence (Note: Damp area beneath tank).

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

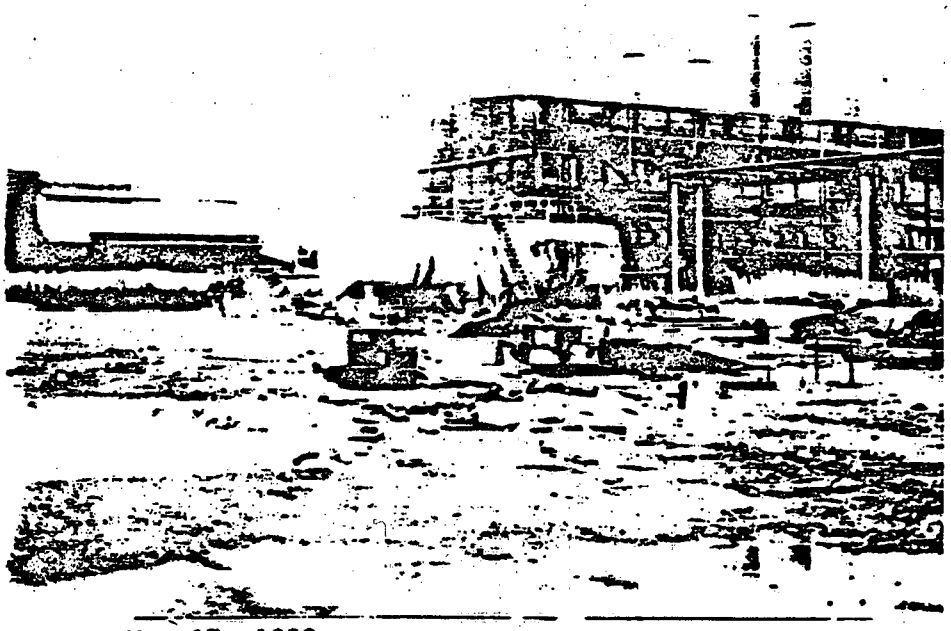


1P-5 May 17, 1990 1057
View of concrete cover of vault containing a large underground storage tank near tank farm in southwestern corner.

1P-6 May 17, 1990 1107
Drum storage along south wall exterior of J. Adler and Co.

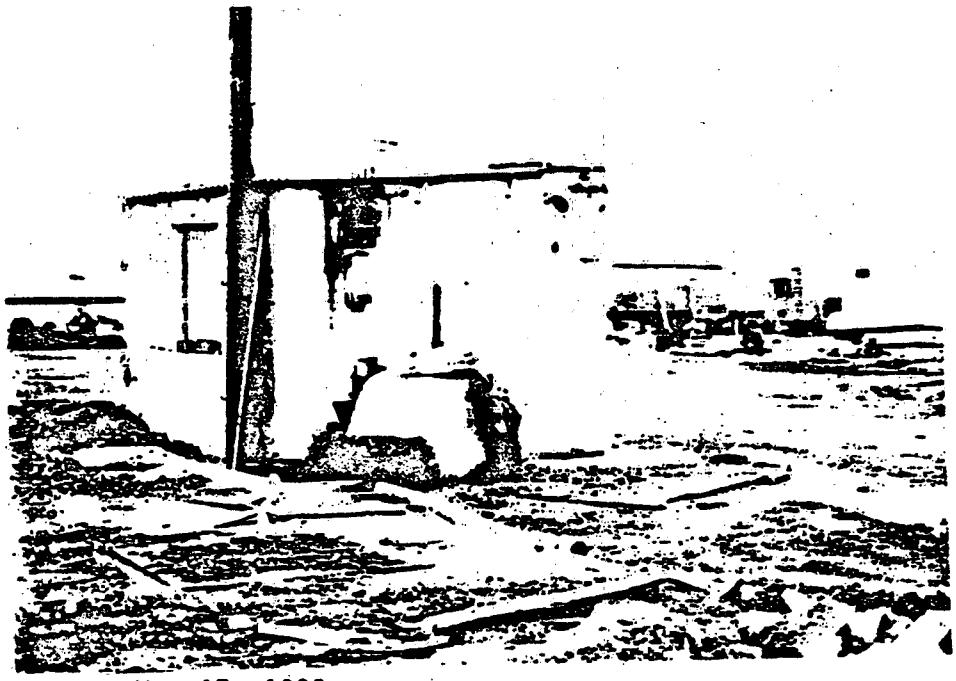
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-7 May 17, 1990 1122
Miscellaneous scrap metal and other debris stored near southeast corner of propery.

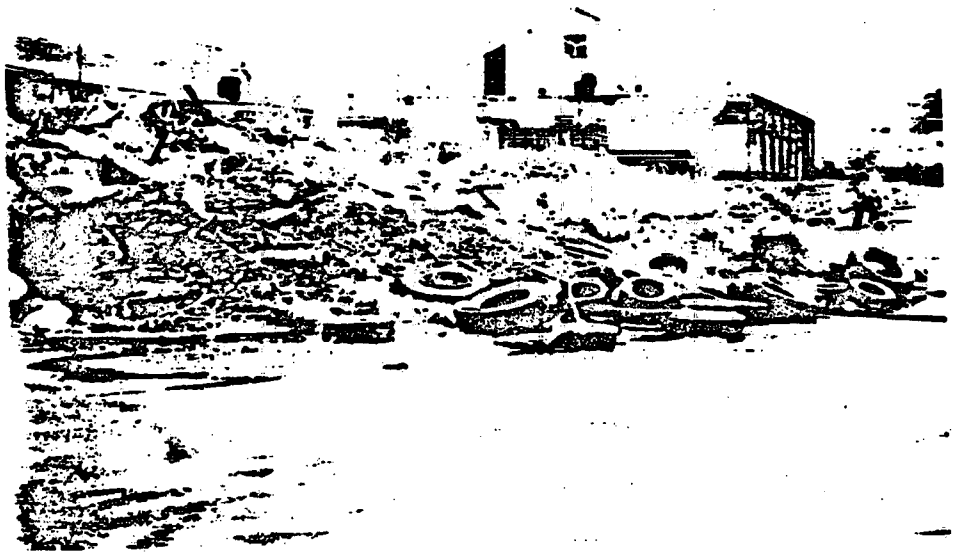


1P-8 May 17, 1990 1125
Abandoned aboveground storage tanks near eastern property perimeter drums, and metal debris.

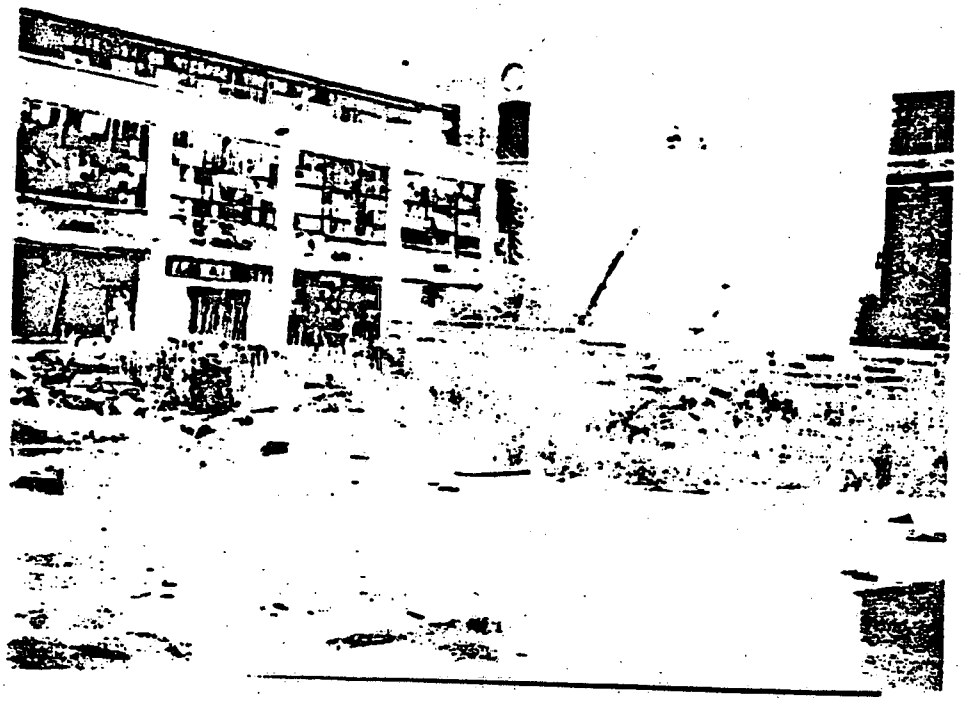
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY



1P-9 May 17, 1990 1132
Location of the disposal pit with plywood cover material, next to a small building.



1P-10 May 17, 1990 1148
Waste pile of miscellaneous debris near northeast corner of site property.



1P-11 May 17, 1990 1156

Large abandoned aboveground storage tank marked with label stating contents contain PCBs.

EXHIBIT B

PHOTOGRAPH LOG

ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY

SITE INVESTIGATION: JUNE 13, 1990

ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
JUNE 13, 1990

PHOTOGRAPH INDEX

ALL PHOTOGRAPHS WERE TAKEN BY BRUCE SANDERS

Photo Number	Description	Time
1P-1	J. Filosa collecting sediment sample NJFL-SED5 from the disposal pit.	1142
1P-3	Westward view of building containing copper sludge drums.	1228
1P-4	J. Filosa collecting surface water sample NJFL-SW7 from open standing water below building containing drums of copper sludge.	1242
1P-5	Location near culvert where downstream surface water sample NJFL-SW4 was collected from Cranes Creek.	1344
1P-6	J. Filosa collecting downstream surface water sample NJFL-SW4 from Cranes Creek.	1355
1P-7	J. Filosa collecting downstream sediment sample NJFL-SED4 from Cranes Creek.	1407
1P-8	J. Leahy collecting downstream surface water sample NJFL-SW3 from Cranes Creek.	1440
1P-	J. Leahy collecting downstream sediment sample NJFL-SED3 from Cranes Creek.	1455
1P-11	J. Filosa collecting upstream surface water sample NJFL-SW1 from Cranes Creek.	1550
1P-12	J. Filosa collecting upstream sediment sample NJFL-SED1 from Cranes Creek.	1600
1P-13	J. Leahy collecting upstream surface water sample NJFL-SW2 from Cranes Creek.	1635
1P-14	J. Leahy collecting upstream sediment sample NJFL-SED2 from Cranes Creek.	1645
1P-15	J. Filosa collecting soil sample NJFL-S5 near vertical aboveground storage tank with PCB label.	1725
1P-16	J. Leahy collecting soil sample NJFL-S4 near abandoned horizontal aboveground storage tanks near eastern property perimeter.	1735

ARTHUR KILL URBAN INDUSTRIAL PARK
PERTH AMBOY, NEW JERSEY
JUNE 13, 1990

PHOTOGRAPH INDEX
(cont'd)

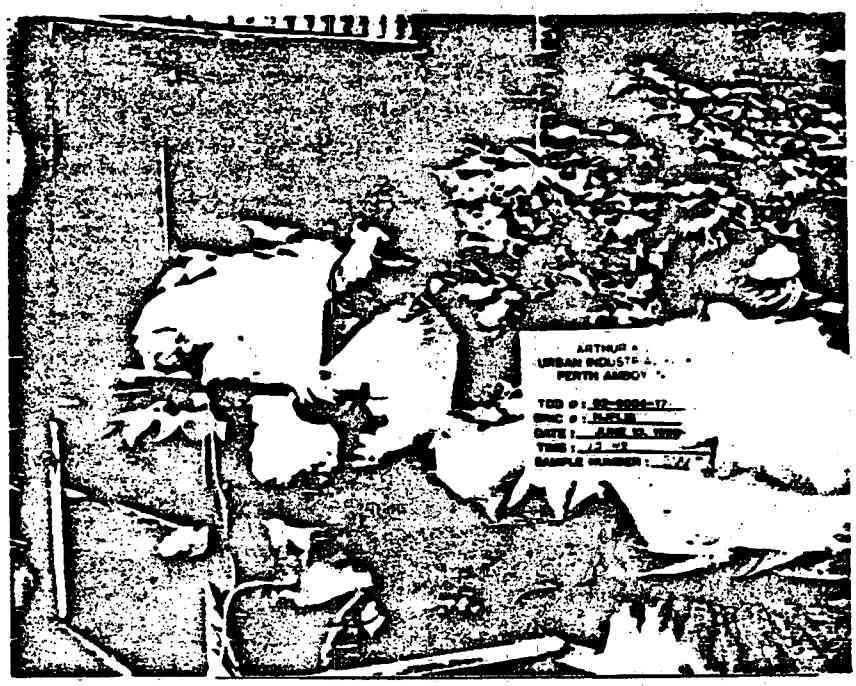
Photo Number	Description	Time
1P-17	J. Filosa collecting soil sample NJFL-S3 near miscellaneous scrap metal near southeast property corner.	1750
1P-18	J. Filosa collecting duplicate soil sample NJFL-S6 at the same location as NJFL-S3.	1755
1P-19	J. Leahy collecting soil sample NJFL-S2 at location of deposited waste sandblasting material.	1805
1P-20	J. Filosa collecting soil sample NJFL-S1 near abandoned storage tank near Jersey Overnite Express building.	1815
R2-P1	R. Scerbo collecting groundwater sample NJFL-GW3 at monitoring well No. 3.	1110
R2-P2	R. Scerbo collecting groundwater sample NJFL-GW1 at monitoring well No. 1.	1240
R2-P3	P. Cicolello collecting groundwater sample NJFL-GW2 at monitoring well No. 2.	1400
R[illegible]	P. Cicolello collecting groundwater sample NJFL-GW4 at monitoring well No. 4.	1615

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

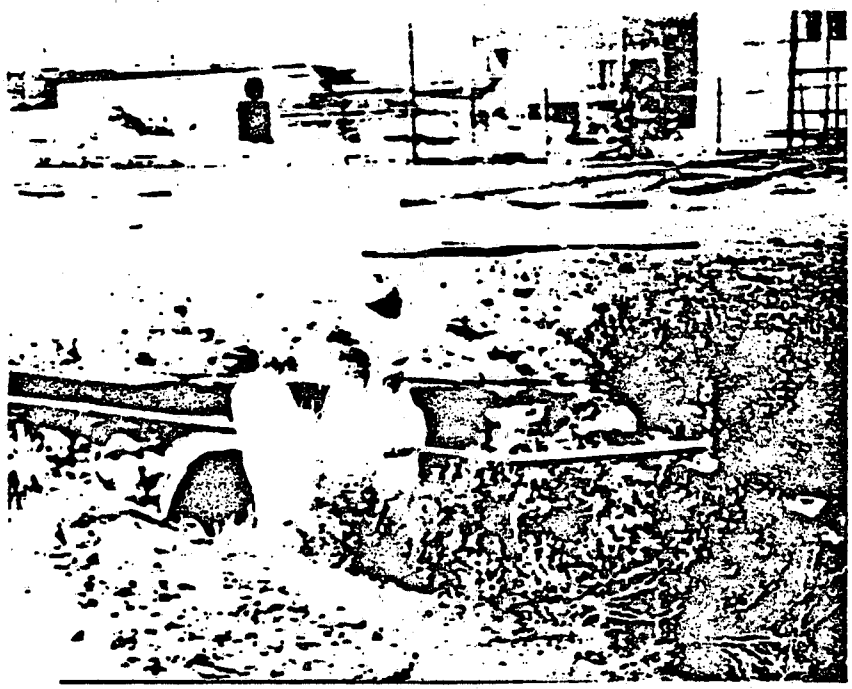
1P-1 June 13, 1990 1142
J. Filosa collecting sediment sample NJFL-SED5 from the disposal pit.

1P-3 June 13, 1990 1228
Westward view of building containing copper sludge drums.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY



1P-4 June 13, 1990 1242
J. Filosa collecting surface water sample NJFL-SW7 from open standing water below building containing drums of copper sludge.



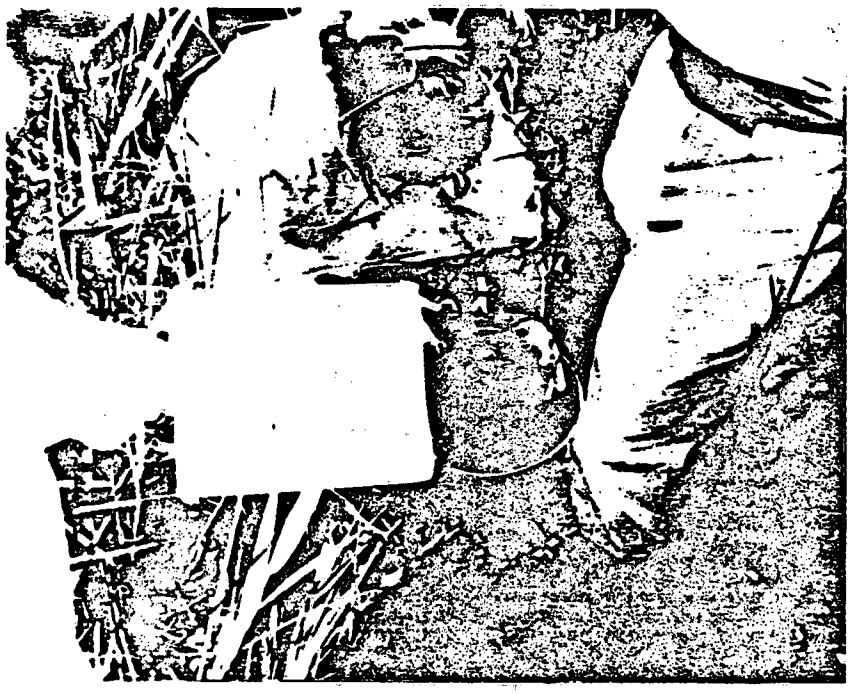
1P-5 June 13, 1990 1344
Location near culvert where downstream surface water sample NJFL-SW4 was collected from Cranes Creek.

1P-6 June 13, 1990 1355
J. Filosa collecting downstream surface water sample NJFL-SW4 from Cranes Creek.

1P-7 June 13, 1990 1407
J. Filosa collecting downstream sediment sample NJFL-SED4 from Cranes Creek.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-8 June 13, 1990 1440
J. Leahy collecting downstream surface water sample NJFL-SW3 from Cranes Creek.



1P-9 June 13, 1990 1455
J. Leahy collecting downstream sediment sample NJFL-SED3 from Cranes Creek.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

P-11

June 13, 1990 1550
J. Filosa collecting surface water sample NJFL-SW1 from Cranes Creek.

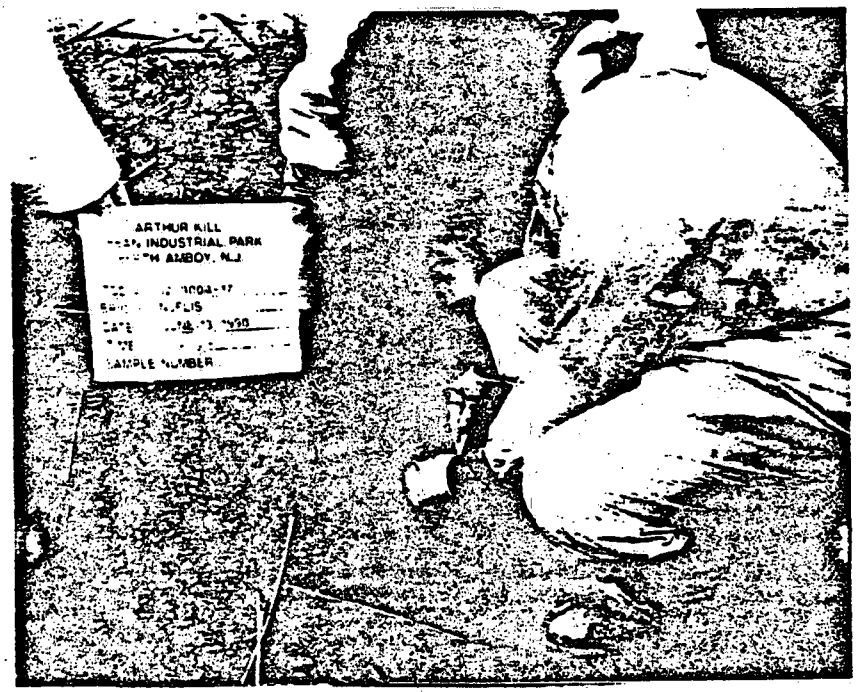
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-12 June 13, 1990 1600
J. Filosa collecting upstream sediment sample NJFL-SED1 from Cranes Creek.

1P-13 June 13, 1990 1635
J. Leahy collecting upstream surface water sample NJFL-SW2 from Cranes Creek.

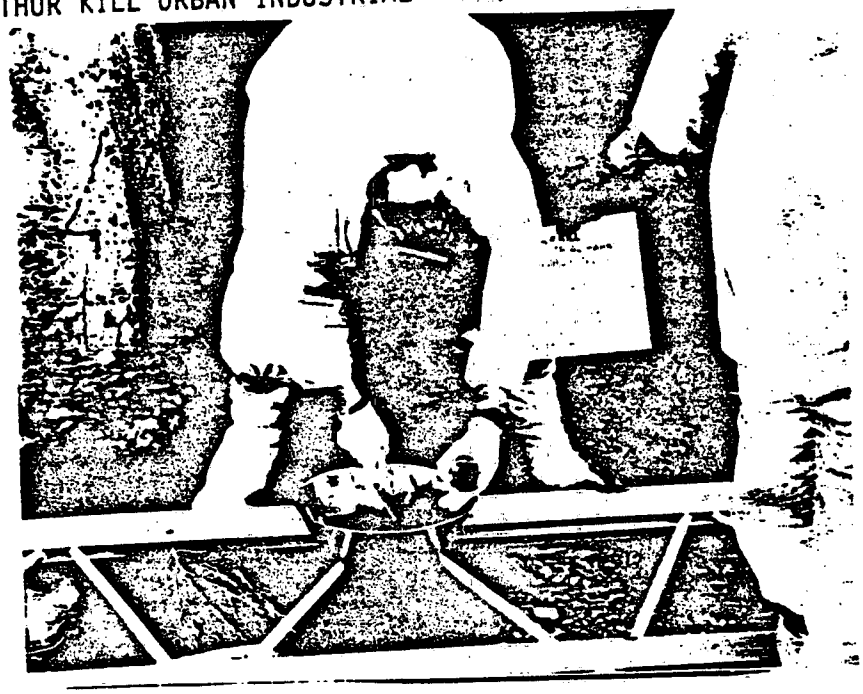
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-14 June 13, 1990 1645
J. Leahy collecting upstream sediment sample NJFL-SED2 from Cranes Creek.



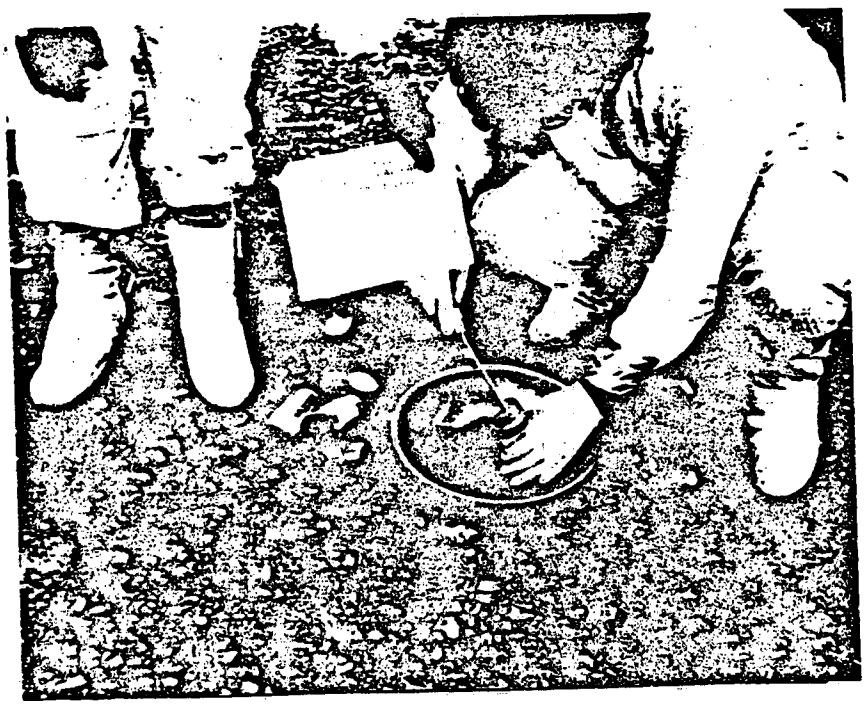
1P-15 June 13, 1990 1725
J. Filosa collecting soil sample NJFL-S5 near vertical aboveground storage tank with PCB label.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY



1735

1P-16 June 13, 1990
J. Leahy collecting soil sample NJFL-S4 near abandoned horizontal above ground storage tanks near eastern property perimeter.

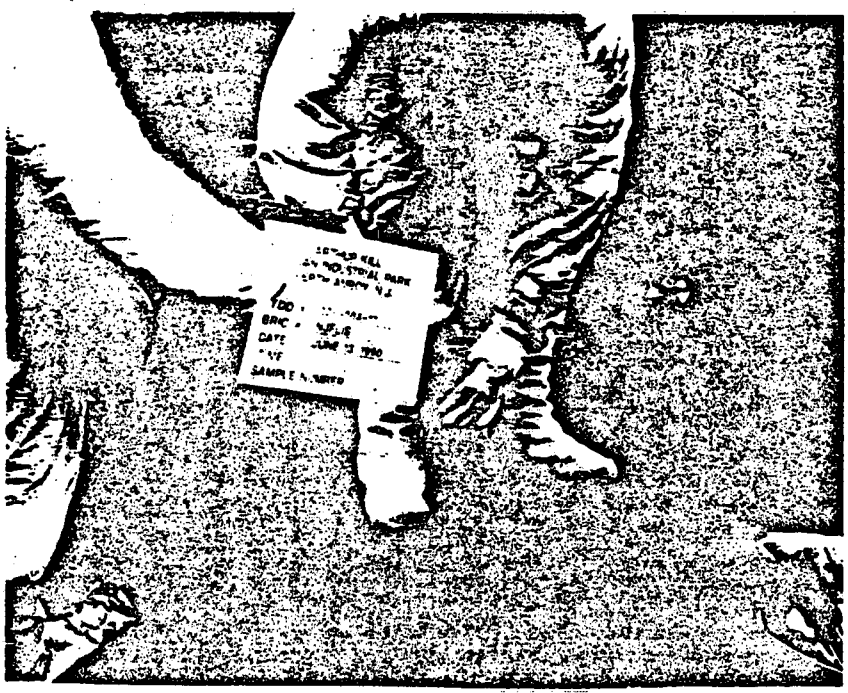


1750

1P-17 June 13,1990
J. Filosa collecting soil sample NJFL-S3 near miscellaneous scrap metal near southeast property corner.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-18 June 13, 1990 1755
J. Filosa collecting duplicate soil sample NJFL-S6 at the same location as NJFL-S3.



1P-19 June 13, 1990 1805
J. Leahy collecting soil sample NJFL-S2 at location of deposited waste sandblasting material.

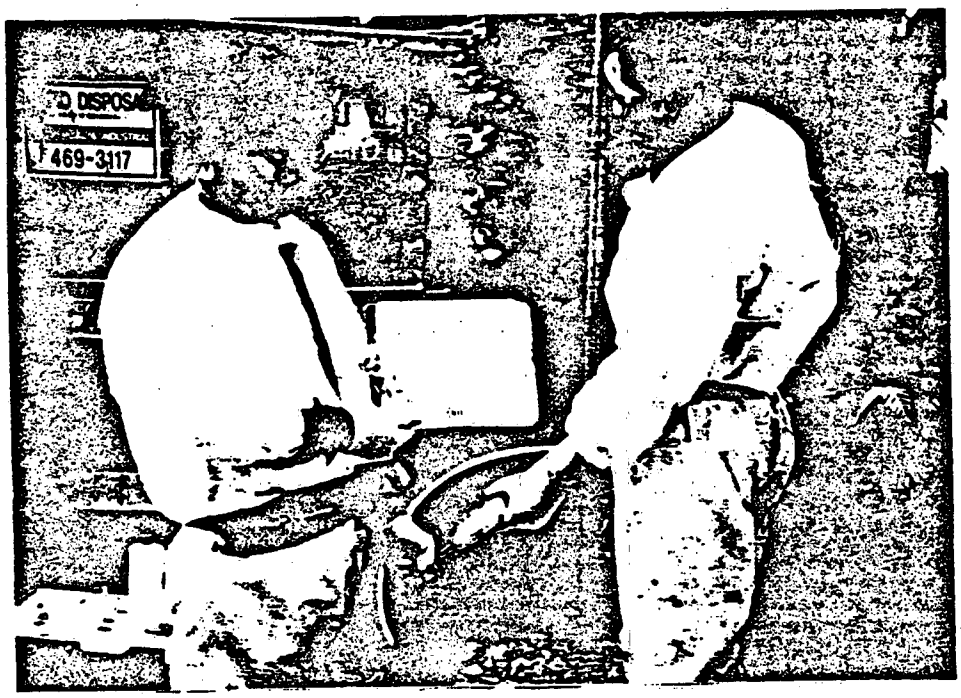
ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

1P-20 June 13, 1990 1815
J. Filosa collecting soil sample NJFL-S1 near
abandoned storage tank near Jersey Overnite Express building.

R2-P1 June 13, 1990 1110
R. Scerbo collecting groundwater sample NJFL-GW3
at monitoring well No. 3.

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, NEW JERSEY

R2-P2 June 13, 1990 1240
R. Scerbo collecting groundwater sample NJFL-GW1
at monitoring well No.1.



R2-P3 June 13, 1990 1400
P. Cicolello collecting groundwater sample NJFL-GW2
at monitoring well No. 2.

1615

R2-P4 June 13, 1990
P. Cicolello collecting groundwater sample NJFL-GW4
at monitoring well no. 4.

ATTACHMENT 2

REFERENCES

1. U.S. Environmental Protection Agency (EPA) Superfund Program, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), p. 12, October 4, 1990.

2. Election Division, New Jersey Department of State, CN 304, Trenton, NJ, Congressional Districts. January 1987.

3. Preliminary Assessment Report, Arthur Kill Industrial Park, prepared by NJDEP, October 6, 1983.

4. Project Note: to Arthur Kill Urban Industrial Park file, from John Rieckhoff, Subject: Property Ownership, December 15, 1990.

5. Field Notebook No. 0580, Arthur Kill Urban Industrial Park, TDD No. 02-9004-17, On-site Reconnaissance, Site Inspection, NUS Corp. Region 2 FIT, Edison, New Jersey, May 17 and June 13, 1990.

6. Field Notebook No. 0615, Arthur Kill Urban Industrial Park, TDD No. 02-9004-17, Site Inspection, NUS Corp. Region 2 FIT, Edison, New Jersey, June 13, 1990.

7. Project Note: to Arthur Kill Urban Industrial Park file, from John Rieckhoff, Subject: Tank volume calculations, December 14, 1990.

8. Project Note: to Arthur Kill Urban Industrial Park file, from John Rieckhoff, Subject: List of tenants on Arthur Kill site, December 14, 1990.

9. New Jersey Coastal Plain Aquifer System, New Jersey Sole Source Aquifer Final Determination, Federal Register, Volume 53, No. 122, June 24, 1988.

10. Selected information from wells in Groundwater Site Inventory Data Base sorted by USGS unique ID. number, January 9, 1989.

11. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.

12. Middlesex County 208 Area-Wide Waste Treatment Management Planning Task 8-Groundwater Analysis, prepared by Geraghty and Miller, Inc. Port Washington, N.Y., November 1976.

13. Barksdale, Henry C., et. al. The Groundwater Supplies of Middlesex County, New Jersey, Special Report 8, New Jersey State Water Policy Commission, 1943.

14. NJDEP, Division of Water Resources, Well Record for Well No. 26-7714, Stoltz Terminals, Inc., August 20, 1985.

15. Telecon Note: Conversation between J. Ritter, Middlesex Water Co., and Edmund Knyfd, Jr., NUS Corp., September 25, 1990.

16. Telecon Note: Conversation between G. Leighton, Engineer, Woodbridge Township, and Edmund Knyfd, Jr., NUS Corp., September 25, 1990.

REFERENCES (CONTD)

17. Three-mile vicinity map for Arthur Kill Urban Industrial Park based on Geological Survey topographical maps, 7.5 minute series, "Perth Amboy Quadrangle, NJ," 1956, photorevised 1981; "Arthur Kill Quadrangle, NY," 1966; "South Amboy Quadrangle, NJ," 1954, photorevised 1981; "Keyport Quadrangle, NJ," 1954, photorevised 1977.

18. Telecon Note: Conversation between Mr. Langenohl, Director, Perth Amboy Water Department, and John Rieckhoff, NUS Corp., July 25, 1990.

19. Telecon Note: Conversation between C. Piazza, Custom Distribution Services, and John Rieckhoff, NUS Corp., December 18, 1990.

20. Farlekas, George M. Geohydrology and Digital-Simulation Model of the Farrington Aquifer in the Northern Coastal Plain of New Jersey. Water Resources Investigations 79-106. U.S. Geological Survey, 1978.

21. NJDEP, Division of Water Resources, Surface Water Quality Standards, NJAC 7:9-4.1 et. seq., August 1989.

22. NJDEP, Division of Parks and Forestry, Natural Lands Management, New Jersey Natural Heritage Program, Potential Threatened and Endangered Vertebrate Species of Middlesex County, May 22, 1987.

23. Telecon Note: Conversation between T. Ramadan, City Engineer, Perth Amboy, and B. Sanders, NUS Corp., April 26, 1990.

24. General Science Corp., Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.

25. Federal Emergency Management Agency, National Flood Insurance Program, Floor Insurance Rate Map, City of Perth Amboy, Middlesex County, New Jersey, Panel No. 3402720001C, May 1, 1984.

26. U.S. EPA Contract Laboratory Program, Intech Biolabs, Inc, and Compuchem Laboratories, Case No. 14277, Laboratory Analyses from NUS Corporation Region 2 FIT, Site inspection conducted on June 13, 1990.

REFERENCE NO. 1

SELECTION:
SEQUENCE: REGION, STATE, SITE NAME
EVENTS: ALL

** C E R C L I S **

LIST-8: SITE/EVENT LISTING

RUN DATE: 10/04/90
RUN TIME: 14:31:31

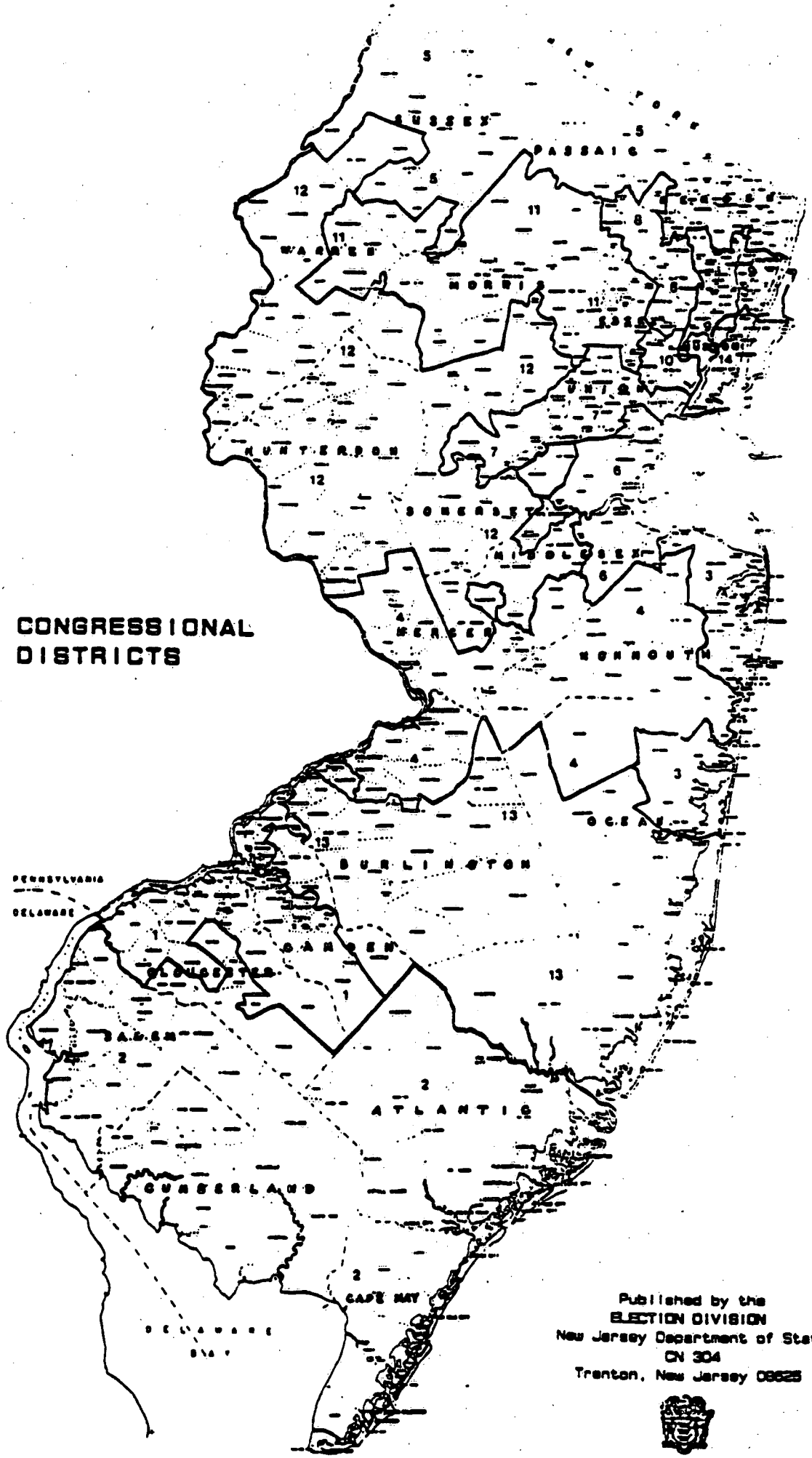
VERSION: 1

PA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	NFA. FLAG	OPRBLE UNIT	EVENT TYPE	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
JD981485014	ARNOLD LIVINGSTON RESIDENCE 519 S. MAPLE AVENUE BASKING RIDGE 035 SOMERSET	NJ 07920		00	DS1 PA1	04/07/86	04/07/86 04/11/86	EPA (FUND) EPA (FUND)
JD044688935	ARSYNCO INC FOOT OF 13TH ST CARLSTADT 003 BERGEN	NJ 07072		00	DS1 PA1 SI1	11/01/89	02/01/84 02/01/84 12/31/89	STATE(FUND) STATE(FUND) STATE(FUND)
JD980529226	ARTHUR GUNDACKER SPOTSWOOD - ENGLISHTOWN ROAD MONROE TWP 023 MIDDLESEX	NJ 08831		00	DS1 PA1 SI1	05/01/85	05/01/81 08/01/84 05/31/85	EPA (FUND) STATE(FUND) STATE(FUND)
JD097408439	ARTHUR KILL URBAN INDUSTRIAL PARK 1050 STATE ST PERTH AMBOY 023 MIDDLESEX	NJ 08861		00	DS1 PA1 PA2 SI1	07/01/90	05/01/81 12/01/84 12/01/85 09/25/90	EPA (FUND) STATE(FUND) STATE(FUND) EPA (FUND)
JD002198828	ARTISAN ELECTRONIC 5 EASTMANS ROAD PARISIPPANY 027 MORRIS	NJ 07054	NFA	00	DS1 PA1	02/28/89	02/28/89 03/31/89	EPA (FUND) EPA (FUND)
JD002407385	ARVEY CORP. 20 SAND PARK ROAD CEDAR GROVE 013 ESSEX	NJ 07009	NFA	00	DS1 PA1	06/27/86	06/27/86 06/30/86	STATE(FUND) STATE(FUND)
JD039116207	ASARCO 1160 STATE ST PERTH AMBOY 023 MIDDLESEX	NJ 08861		00	DS1 PA1 SI1	09/18/86	10/01/83 10/01/83 09/29/86	EPA (FUND) EPA (FUND) STATE(FUND)
JD053104840	ASARCO FEDERAL PRODUCTS DIV 270 FOOTHILL RD SOMERVILLE 035 SOMERSET	NJ 08876	NFA	00	DS1 PA1	07/01/84	06/01/81 09/01/84	EPA (FUND) EPA (FUND)

PA ID	SITE/ALIAS NAME STREET CITY COUNTY NAME	STATE COUNTY	ZIP CODE	ALIAS SEQ. #	NAME SOURCE	FED FAC
981485014	ARNOLD LIVINGSTON RESIDENCE				EPA	N
	519 S. MAPLE AVENUE					
	BASKING RIDGE	NJ	07920			
	SOMERSET	035				
044688935	ARSYNCO INC				EPA	N
	FOOT OF 13TH ST					
	CARLSTADT	NJ	07072			
	BERGEN	003				
	INMONT CORPORATION			01		
	ARSYNCO INC			02		
	BERGEN	NJ				
980529226	ARTHUR GUNDACKER				STS	N
	SPOTSWOOD - ENGLISHTOWN ROAD					
	MONROE TWP	NJ	08831			
	MIDDLESEX	023				
	ARTHUR GUNDACKER			01		
	MIDDLESEX	NJ				
097408439	ARTHUR KILL URBAN INDUSTRIAL PARK				STS	N
	1050 STATE ST					
	PERTH AMBOY	NJ	08861			
	MIDDLESEX	023				
	STATE STREET INDUSTRIAL PARK			01		
	N L INDUSTRIES (PERTH AMBOY SITE)			02		
002198828	ARTISAN ELECTRONIC					D
	5 EASTMANS ROAD					
	PARISIPPANY	NJ	07054			
	MORRIS	027				
	ARTISAN ELECTRONIC			01		
	MORRIS	NJ				

REFERENCE NO. 2

CONGRESSIONAL DISTRICTS



Published by the
ELECTION DIVISION
New Jersey Department of State
CN 304
Trenton, New Jersey 08625

[illegible] Borough, Riverton Borough, Part of Camden County Audubon Park Borough, Barrington Borough, Bellmawr Borough, Berlin Borough, Berlin Twp., Brooklawn Borough, Camden City, Chesilhurst Borough, Clementon Borough, Collingswood Borough, Gibbsboro Borough, Gloucester City, Gloucester Twp., Haddon Twp., Haddonfield Borough, Laurel Springs Borough, Lawnside Borough, Lindenwold Borough, Magnolia Borough, Mount Ephraim Borough, Oaklyn Borough, Pennsauken Twp., Pine Hill Borough, Pine Valley Borough, Runnemede Borough, Somerdale Borough, Stratford Borough, Tavistock Borough, Winslow Twp. and Woodlynne Borough;, and Part of Gloucester County Clayton Borough, Deptford Twp., East Greenwich Twp., Greenwich Twp., Harrison Twp., Logan Twp., Monroe Twp., National Park Borough, Paulsboro Borough, Swedesboro Borough, Washington Twp., Wenonah Borough, West Deptford Twp., Westville Borough, Woodbury City, Woodbury Hts. Borough and Woolwich Twp.;.

DISTRICT TWO: Atlantic County, Cape May County, Cumberland County, Salem County and Part of Gloucester County (Elk Twp., Franklin Twp., Glassboro Borough, Mantua Twp., Newfield Borough, Pitman Borough and South Harrison Twp.;.

DISTRICT THREE: Part Of Monmouth County (Allenhurst Borough, Asbury Park City, Atlantic Highlands, Borough, Avon-by-the-Sea Borough, Belmar Borough, Bradley Beach Borough, Deal Borough, Eatontown Borough, Fair Haven Borough, Harlet Twp., Highlands Borough, Interlaken Borough, Keansburg Borough, Keyport Borough, Little Silver Borough, Loch Arbour Village, Long Branch City, Manasquan Borough, Middletown Twp., Monmouth Beach Boro, Neptune City Borough, Neptune Twp., Oceanport Borough, Ocean Twp., Red Bank Borough, Rumson Borough, Sea Bright Borough, Sea Girt Borough, Shrewsbury Borough, Shrewsbury Twp., Spring Lake Borough, Spring Lake Heights Borough, South Belmar Borough, Tinton Falls Borough, Union Beach Borough and West Long Branch Borough) and Part of Ocean County (Bay Head Borough, Brick Twp., Dover Twp., Island Heights Borough, Lakewood Twp., Lavallette Borough, Manteloking Borough, Point Pleasant Beach Borough, Point Pleasant Borough, Seaside Heights Borough and South Toms River Borough;.

DISTRICT FOUR: Part of Burlington County (Bordentown City, Bordentown Twp., Burlington City, Burlington Twp., Chesterfield Twp., Eastampton Twp., Fieldsboro Borough, Florence Twp., Mansfield Twp., Springfield Twp. and Westampton Twp.) Part of Mercer County (East Windsor Twp., Ewing Twp., Hamilton Twp., Hightstown Borough, Hopewell Borough, Hopewell Twp., Lawrence Twp., Pennington Borough, Trenton City and Washington Twp.;, Part of Middlesex County (Jamesburg Borough, Monroe Twp. and Plainsboro Twp.;, Part of Monmouth County (Allentown Borough, Brielle Borough, Colts Neck Twp., Englishtown Borough, Farmingdale Borough, Freehold Borough, Freehold Twp., Holmdel Twp., Howell Twp., Manalapan Twp., Marlboro Twp., Millstone Twp., Roosevelt Borough, Upper Freehold Twp. and Wall Twp.;, and Part of Ocean County (Jackson Twp.;.

DISTRICT FIVE: Part of Bergen County (Allendale Borough, Alpine Borough, Bergenfield Borough, Closter Borough, Cresskill Borough, Demarest Borough, Dumont Borough, Emerson Borough, Glen Rock Borough, Harrington Park Borough, Haworth Borough, Hillsdale Borough, Ho-Ho-Kus Borough, Hohwen Twp., Midland Park Borough, Montvale Borough, Northvale Borough, Norwood Borough, Oakland Borough, Old Tappan Borough, Oradell Borough, Paramus Borough, Park Ridge Borough, Ramsey Borough, Ridgewood Village, River Vale Twp., Rochelle Park Twp., Rochleigh Borough, Saddle River Borough, Tenafly Borough, Upper Saddle River Borough, Waldwick Borough, Washington Twp., Westwood Borough, Woodcliff Lake Borough and Wyckoff Twp.;, Part of Passaic County (Bloomingdale Borough, Haledon Borough, Hawthorne Borough, North Haledon Borough, Ringwood Borough, Wanaque Borough and West Milford Twp.;, and Part of Sussex County (Andover Borough, Andover Twp., Branchville Borough, Frankford Twp., Franklin Borough, Fredon Twp., Hamburg Borough, Hardyston Twp., Hopatcong Borough, Lafayette Twp., Montague Twp., Newton Town, Ogdensburg Borough, Sandyston Twp., Sparta Twp., Stanhope Borough, Sussex Borough, Vernon Twp., Walpack Twp. and Wantage Twp.;.

DISTRICT SIX: Part of Middlesex County (Carteret Borough, Edison Twp., Highland Park Borough, Metuchen Borough, New Brunswick City, North Brunswick Twp., Old Bridge Twp., Perth Amboy City, Sayreville Borough, South Amboy City, South River Borough and Woodbridge Twp.;, Part of Monmouth County (Aberdeen Twp. and Matawan Borough;, and Part of Union County (Linden City, Rahway City and Roselle Borough).

DISTRICT SEVEN: Part of Essex County (Millburn Twp.;, Part of Middlesex County (Dunellen Borough and Middlesex Borough), Part of Somerset County (Bound Brook Borough, Bridgewater Twp., Green Brook Twp., Manville Borough, North Plainfield Borough, Warren Twp. and Watchung Borough; and Part of Union County (Berkeley Heights Twp., Clark Twp., Cranford Twp., Elizabeth City, Fanwood Borough, Garwood Borough, Kenilworth Borough, Mountainside Borough, New Providence Borough, Plainfield City, Roselle Park Borough, Scotch Plains Twp., Springfield Twp., Summit City, Union Twp., Westfield Town and Winfield Twp.;.

DISTRICT EIGHT: Part of Bergen County (Franklin Lakes Borough), Part of Essex County (Part of Belleville Town, Bloomfield Town, Glen Ridge Borough, Montclair Town and Nutley Town), Part of Morris County (Riverdale Borough) and Part of Passaic County (Clifton City, Little Falls Twp., Passaic City, Paterson City, Pompton Lakes Borough, Prospect Park Borough, Totowa Borough, Wayne Twp. and West Paterson Borough..

DISTRICT NINE: Part of Bergen County (Bogota Borough, Carlstadt Borough, Cliffside Park Borough, East Rutherford Borough, Edgewater Borough, Elmwood Park Borough, Englewood City, Englewood Cliffs Borough, Fair Lawn Borough, Fairview Borough, Fort Lee Borough, Garfield City, Hackensack City, Hasbrouck Heights Borough, Leonia Borough, Little Ferry Borough, Lodi Borough, Lyndhurst Twp., Maywood Borough, Moonachie Borough, New Milford Borough, North Arlington Borough, Palisades Park Borough, Ridgefield Borough, Ridgefield Park Village, River Edge Borough, Rutherford Borough, Saddle Brook Twp., South Hackensack Twp., Teaneck Twp., Teterboro Borough, Wallington Borough and Wood-Ridge Borough; and Part of Hudson County (East Newark Borough, Part of Kearny Town, and Secaucus Town).

DISTRICT TEN: Part of Essex County (Part of Belleville Town, East Orange City, Irvington Town, Newark City and Orange City; and Part of Union County (Millside Township;.

DISTRICT ELEVEN: Part of Essex County (Caldwell Borough, Cedar Grove Twp., Essex Fells Borough, Fairfield Borough, Livingston Twp., Maplewood Twp., North Caldwell Borough, Roseland Borough, South Orange Village, Verona Borough, West Caldwell Borough and West Orange Town;, Part of Morris County (Boonton Town, Boonton Twp., Butler Borough, Chatham Borough, Chester Borough, Chester Twp., Danville Twp., Dover Town, East Hanover Twp., Florham Park Borough, Hanover Twp., Jefferson Twp., Kinnelon Borough, Lincoln Park Borough, Madison Borough, Morristown Borough, Montville Twp., Mount Hill Twp., Montville Twp., Mountain Lakes Borough, Mount Arlington Borough, Mount Olive Twp., Netcong Borough, Parsippany-Troy Hills Twp., Pequannock Twp., Randolph Twp., Rockaway Borough, Rockaway Twp., Roxbury Twp., Victory Gardens Borough and Wharton Borough), Part of Sussex County (Byram Twp. and Green Twp.) and Part of Warren County (Allamuchy Twp., Frelinghuysen Twp., Independence Twp. and Liberty Twp.;.

DISTRICT TWELVE: Hunterdon County, Part of Mercer County (Princeton Borough, Princeton Twp. and West Windsor Twp.; Part of Middlesex County (Cranbury Twp., East Brunswick Twp., Helmetta Borough, Milltown Borough, Piscataway Twp., South Brunswick Twp., South Plainfield Borough and Spotswood Borough;, Part of Morris County (Chatham Twp., Harding Twp., Morris Plains Borough, Morristown Town, Morris Twp., Passaic Twp. and Washington Twp.;, Part of Somerset County (Bedminster Twp., Bernards Twp., Bernardsville Borough, Branchburg Twp., Far Hills Borough, Franklin Twp., Hillsborough Twp., Millstone Borough, Montgomery Twp., Peapack-Gladstone Borough, Raritan Borough, Rocky Hill Borough, Somerville Borough and South Bound Brook Borough), Part of Sussex County (Hampton Twp. and Stillwater Twp.) and Part of Warren County (Alpha Borough, Belvidere Town, Blairstown Twp., Franklin Twp., Greenwich Twp., Hackettstown Town, Hardwick Twp., Harmony Twp., Hope Twp., Knowlton Twp., Lopatcong Twp., Mansfield Twp., Oxford Twp., Pahaquarry Twp., Phillipsburg Town, Pohatcong Twp., Washington Borough, Washington Twp. and White Twp.;.

DISTRICT THIRTEEN: Part of Burlington County (Bass River Twp., Beverly City, Cinnaminson Twp., Delanco Twp., Delran Twp., Edgewater Park Twp., Evesham Twp., Hainsport Twp., Lumberton Twp., Medford Lakes Borough, Medford Twp., Moorestown Twp., Mount Holly Twp., Mount Laurel Twp., New Hanover Twp., North Hanover Twp., Pemberton Borough, Pemberton Twp., Riverside Twp., Shamong Twp., Southampton Twp., Tabernacle Twp., Washington Twp., Willingboro Twp., Woodland Twp. and Wrightstown Borough); Part of Camden County (Audubon Borough, Cherry Hill Twp., Haddonfield Borough, Haddon Heights Borough, Merchantville Borough, Voorhees Twp. and Waterford Twp.) and Part of Ocean County (Barnegat Light Borough, Barnegat Twp., Beach Haven Borough, Beachwood Borough, Berkeley Twp., Englewood Twp., Harvey Cedars Borough, Lacey Twp., Lakehurst Borough, Little Egg Harbor Twp., Long Beach Twp., Manchester Twp., Ocean Gate Borough, Ocean Township, Pine Beach Borough, Plumsted Twp., Seaside Park Borough, Ship Bottom Borough, Stafford Twp., Surf City Borough and Tuckerton Borough).

DISTRICT FOURTEEN: Part of Hudson County (Bayonne City, Guttenberg Town, Harrison Town, Hoboken City, Jersey City, Part of Kearny Town, North Bergen Twp., Union City, Weehawken Twp. and West New York Town;.

Published by: ELECTION DIVISION, NEW JERSEY DEPARTMENT OF STATE
CN 304 Trenton, New Jersey 08625

January 1987

REFERENCE NO. 3

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-12
July 1981

EPA

Potential Hazardous Waste Site

Preliminary Assessment

Arthur Kill Industrial Park
a/k/a State Street Industrial Park
1050 State Street
Perth Amboy/Middlesex County

EPA ID# NJD097408439

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. NAME AND LOCATION

01 SITE NAME: ARTHUR KILL INDUSTRIAL PARK
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: 1050 State Street
03 CITY: Perth Amboy
04 STATE: NJ | 05 ZIP CODE: 08862 | 06 COUNTY: Middlesex | 07 COUNTY CODE | 08 CONG DIST
09 COORDINATES LATITUDE: 40° 31' 47" | LONGITUDE: 74° 30' 41"
a/k/a State Street Industrial Park Block 428 Lot 1A,1B
10 DIRECTIONS TO SITE (Starting from nearest public road): Rt. 1 north to rte. 440 east (staten Island)..Follow Rte. 440 East to State St. exit follow exit ramp onto State St.Go into Jughandle at First Light-Entrace to 1050 State St. is off the Jughandle

III. RESPONSIBLE PARTIES

01 OWNER (if known): CUSTOM DISTRIBUTION SERVICES, INC.
02 STREET (Business, mailing, residential): P. O. Box 363
03 CITY: Perth Amboy
04 STATE: NJ | 05 ZIP CODE: 08862 | 06 TELEPHONE NUMBER: 201 442-6400
07 OPERATOR (if known and different from owner):
08 STREET (Business, mailing, residential):
09 CITY:
10 STATE | 11 ZIP CODE | 12 TELEPHONE NUMBER ( )
13 TYPE OF OWNERSHIP (Check one)
[X] A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

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 ___/___/___ (Month Day Year)
[X] 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): _____

02 SITE STATUS (Check one)
[X] A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN
03 YEARS OF OPERATION
_____ (Beginning Year) _____ (Ending Year) [X] UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
PCB's Toluene, Methylene,Chloride, Ethylbenzene,Copper,Laboratory quantities of other substances listed in Part II.
(NJDEP Div. Water Resources-Lab Analysis 4/13/81, 6/23/81,6/26/81,6/29/81 (Attachment "A")

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
-PCB contaminated materials discharged into Cranes's Creek
-Soil contamination by PCB contaminated sewage that overflows from sewerline
-Worker exposure to sewer workers repairing system & cleaning up overflows
(NJDEP Div. Water Resources -Memos dated 4/25/83 7/13/83, Notice of Violation-Attachment"B")

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) [X] 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: John Tomasiello
02 OF (Agency/Organization): NJDEP Div. Water Resources
03 TELEPHONE NUMBER: 609 292-2203
04 PERSON RESPONSIBLE FOR ASSESSMENT: Perry Katz
05 AGENCY: NJDEP
06 ORGANIZATION: Div. WasteMgmt. HSMA
07 TELEPHONE NUMBER: 609 292-9746
08 DATE: 10 / 6 / 83 (Month Day Year)

EPA 2070-12 (7-81)

2

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

ASTE STATES, QUANTITIES, AND CHARACTERISTICS

YSICAL STATES (Check all that apply)

- SOLID
- POWDER, FINES
- SLUDGE
- E. SLURRY
- XXF LIQUID
- G GAS
- OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- XXA TOXIC
- XXB CORROSIVE
- C RADIOACTIVE
- XX D PERSISTENT
- E SOLUBLE
- F. INFECTIOUS
- XXG FLAMMABLE
- H IGNITABLE
- I. HIGHLY VOLATILE
- XX EXPLOSIVE
- X REACTIVE
- L. INCOMPATIBLE
- M NOT APPLICABLE

ASTE TYPE

EGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
LU	SLUDGE	1045	GAL	(24) - 55 GAL DRUMS "COPPER SLUDGE"
LW	OILY WASTE			
OL	SOLVENTS			
SD	PESTICIDES			
CC	OTHER ORGANIC CHEMICALS			
OC	INORGANIC CHEMICALS			
CD	ACIDS			
AS	BASES			
ES	HEAVY METALS			

(MINIMUM AMT. OF TOTAL SLUDGES PRESENT)

AZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

TEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	PCB	1336-36-3	TK,DR,SI	3-615	PPM
L	Toluene	108-88-3	Si	3700	PPB
	ethylene Chloride	75-09-2	SI	370-1100	PPB
	Ethylbenzene	100-41-4	Si	190	PPB
	Copper	7440-50-8	DR		
L	Xylene	1330-20-7			
	Mercuric Thiocyanate	592-85-8	Abandoned Laboratory Chemicals		
	Formaldehyde	50-00-0			
	Potassium Hydroxide	1310-58-3			
	Potassium Sulfate	999			
	Sodium Bromide	999			
	Mercuric Perchlorate	999			
C	1.4 Dichloro-2-Butene	999			

See attachment "A"

EEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

o Analysis(4/13 6/23,6/26, 6/29/81) NJDEP Div. Water Resources Collected by J.Specht&J. Thomasiell
DEP au Haz. Waste Memo from Jonathan Berg to George Smajda (5/4/81)
DEP u Haz.Waste-Memo from J. Berg/T.Grady to Ron Corcory(7/7/80)
DEP Bureau Haz Waste memo from J. Berg to George Smajda/K.Onsdorff(4/24/81)

FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [ ] A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [X] OBSERVED (DATE: 6/14/83) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
Industrial Park has a sewer line which leads to & discharges into Crane's Creek.
PCB's contained in sewer line.
NJDEP Div. Water Resources Memos 4/25/83* 7/13/83 see attachment "B" Also Lab Analysis 6/28/83 "A"

01 [ ] C CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] D FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
[ ] POTENTIAL [ ] ALLEGED

01 [X] F CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 [X] OBSERVED (DATE: 4/24/83) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
Excavation of PCB Contaminated material onto east slope of Cranes Creek, PCB contaminated material from sewer overflow dumped over land into Cranes' Creek.
(NJDEP Div. Water Resources memos 4/25/83-7/13/83 (see attachment "B")

01 [X] G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION
City Sewer workers &Industrial Park workers working to unclog sewer lines during overflows not wearing protective clothing..PCB's contained in sewer lines (NJDEP Div. Water Resources memos 4/25/83 and 7/13/83 see attachment "B")

01 [ ] H WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] I POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

☐ J DAMAGE TO FLORA
NARRATIVE DESCRIPTION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

☐ K DAMAGE TO FAUNA
NARRATIVE DESCRIPTION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

☒ L CONTAMINATION OF FOOD CHAIN
NARRATIVE DESCRIPTION — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

contaminated material discharged into Cranes Creek,PCB has potential
Bioaccumulate.
DEP Div. Water Resources memos dated 4/25/83 and 7/13/83 see attachment "B")

☒ M UNSTABLE CONTAINMENT OF WASTES
POPULATION POTENTIALLY AFFECTED: _____ — 02 ☒ OBSERVED (DATE: 7/7/80) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE: NJDEPWater Resources memos dated 7/7/80 and 5/4/81-see attachment "B")

EP Inspection revealed several drums labeled Copper,Sludge,corroded and
king,photographs show spills of unknown materialsLab Analysis indicates
sence of PCB's in catch basins of sewers, 20'x20'x20' undergrd pit contains Hazardous waste

☒ N DAMAGE TO OFFSITE PROPERTY
NARRATIVE DESCRIPTION — 02 ☒ OBSERVED (DATE: 6/14/83) ☐ POTENTIAL ☐ ALLEGED
NJDEP Div. Water Resources memos dated 4/25/83,7/13/83,notice of violation see "B"
avated PCB contaminated material put on East slope of Crane's Creek.
's from Property discharged into Municipal sewer system;PCB's in sludge
sewage treatment plant and contaminated sediment has overflowed onto intersection of StateSt &GarretsonAve

☒ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
NARRATIVE DESCRIPTION — 02 ☒ OBSERVED (DATE: 6/29/81) ☐ POTENTIAL ☐ ALLEGED
(NJDEP Div. Water Resources Notice of Violation and Lab analysis 6/29/81see attach
Analysis indicates presence of PCB's in catch basins of sewers..NJDEP ments"A"
ective letter and Notice of violation states PCB's have been discharged from property&B)
o Perth Amboy Municipal Sewers System PCB's in sludge of sewage treatment plant

☐ P ILLEGAL/UNAUTHORIZED DUMPING
NARRATIVE DESCRIPTION — 02 ☒ OBSERVED (DATE: 3/24/81) ☐ POTENTIAL ☐ ALLEGED
EP Inspection revealed area approximately 60'x220' of promiscuously dumped
bage mixed with 55 Gallon drums,some of which were leaking onto ground
DEP Bureau Haz. Waste Memo dated 5/4/81..see attachment"A")

DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
l Refining and Smelting operation apparently occurred on-site
rding to site plan (see"misc." attachment).

TOTAL POPULATION POTENTIALLY AFFECTED: _____

COMMENTS
site was formally operated by National Lead.Recommendation that
inspection investigate lead smelting &refining operations that
rentlyoccurred on-site (see"miscellaneous" attachment,Nat'l Map).

SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
Analysis (4/13, 6/23,6/26,6/29/81)NJDEP Div. Water Resources-collected by J.Spect&J.Tomasiellc
P Div Water Resources-Directive Letter &Notice of Violation (no date)
P Div.Water Resourcesmemo dated 7/13/83 from J. Tomsiello thru J. Munman to Tim Haley Reg.
P Div Water Resources Memo 4/25/83 from J. Tomasiellothru J. Munman to Ron Heksch, Services
DAG
-Bureau Haz. Waste Meo 5/4/81 From J. Berg to G. Smajda
Bureau Haz. Waste Memo 7/7/80 from J. Berg/T. Brady to Ron Corcory

2070 12 (7-81)

ARTHUR KILL INDUSTRIAL PK.
9KG STATE ST. INDUSTRIAL PK
PERTH AMBOY / MIDDLESEX COUNTY

PRELIMINARY ASSESSMENT FILE SEARCH

NJDEP

DIVISION OF WATER RESOURCES:

A. Enforcement _____ CENTRAL FILES (KATHY LOCIAINE)

B. Groundwater _____

C. Other _____

DIVISION OF WASTE MANAGEMENT:

A. HSMA 8 E. HANOVER ST. - CENTRAL FILES GEORGE HALASI-KUN (TOPOGRAPHIC MAP)

B. Enforcement YARDVILLE FIELD OFFICE

C. Solid Waste _____

ENVIRONMENTAL QUALITY:

A. Air Pollution _____

B. Pesticides _____

C. Other _____

DIVISION OF FISH AND GAME: _____

OFFICE OF SCIENCE AND RESEARCH: _____

A. Industrial Survey _____

B. Other _____

N.J. DEPARTMENT OF HEALTH: _____

LOCAL AUTHORITIES:

A. Health Department MIDDLESEX CO. HLTH. DEPT. (DENNIS MALINOWSKI)

B. Town or County Clerk TAX MAP

UNITED STATES GOVERNMENT:

A. EPA _____

B. other _____

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES

P. O. BOX CN 029

TRENTON, NEW JERSEY 08625

ARNOLD SCHIFFMAN

DIRECTOR

IN THE MATTER OF	:	DIRECTIVE LETTER AND
THE ARTHUR KILL URBAN	:	NOTICE OF VIOLATION
INDUSTRIAL PARK, INCORPORATED	:	

This Directive Letter and Notice of Violation is issued pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et seq. (hereinafter The Act.) Also, the actions detailed hereinbelow constitute violations of the water Pollution Control Act and subject to the remedies set forth in Section Ten of the Act.

The Department of Environmental Protection (hereinafter DEP) has determined that the following conditions exist in the City of Perth Amboy, New Jersey:

1. Polychlorinated Biphenols (hereinafter PCBs) have been discharged from your property into the municipal sewer system of the City of Perth Amboy. The discharge of PCBs, a hazardous substance, except in conformance with a valid federal or state permit is a violation of the Act.

2. PCBs have been found in the sludge of the sewage treatment plant of the City of Perth Amboy.

3. PCB laden sediment has been found in the municipal sewer system of the City of Perth Amboy.

4. PCB contaminated sediment has overflowed from the City of Perth Amboy municipal sewer system onto the ground in the vicinity of the intersection of State Street and Garretson Avenue.

5. You did not notify DEP of this discharge, which is also a violation of the Act.

These conditions constitute a danger to the environment and the health, safety and welfare of the people of the State of New Jersey. You are therefore directed, pursuant to the Act, to initiate the following measures immediately:

1. Cease discharge of all PCBs from your property;

New Jersey Is An Equal Opportunity Employer

2. Remove all PCB laden sediment from the municipal sewer system of the City of Perth Amboy and dispose of it in conformance with the law;

3. Remove all PCB laden sludge from the City of Perth Amboy sewage treatment plant and dispose of it according to law;

4. Compensate the City of Perth Amboy for its costs incurred in disposing of PCB laden sludge from the site of its sewage treatment plant; and

5. Clean up and remove all contamination caused by the overflow at the vicinity of the intersection of Garretson Avenue and State Street.

In addition, you must notify DEP upon commencement of any action taken to comply with this directive.

Failure to respond to this Notice and Directive within ten (10) days of its receipt by you may result in DEP performing the clean up and removal activities described herein. If DEP performs the clean up, you shall be liable for three times the amount of DEP's costs, as provided in the Act. This will cause a first priority claim to be placed upon all of your real and personal property.

Your discharges and the subsequent failure to notify DEP of said discharges constitute two (2) violations of the Act. The Act provides for a penalty of up to $25,000 for each violation. Therefore, you may be subject to $50,000 in penalties for your actions. The discharge violation is of a continuing nature and each day in which it continues shall constitute an additional, separate and distinct offense.

In addition, the Act provides that its remedies are in addition to any other remedies allowed by law. Specifically, the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. prohibits the discharge of any pollutant, except in conformance with a valid permit. N.J.S.A. 58:10A-10d provides that DEP may assess a civil administrative penalty of $5,000 for each violation and $500 per day for each day that a violation continues after receipt of an administrative order. In addition to administrative remedies, DEP may obtain a court ordered civil penalty of up to $10,000 per day for each day that an administrative order or the Water Pollution Control Act is violated, pursuant to N.J.S.A. 58:10A-10e. Finally, a willful or negligent violation of the Water Pollution Control Act may result in a criminal prosecution under N.J.S.A. 58:10A-10f. The criminal remedy provides for a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment not to exceed one year or by both.

Any questions concerning this Directive and Notice of Violation should be addressed to:

James E. Mumman, Chief
Region II
Enforcement & Regulatory Services Element
Division of Water Resources
P. O. Box CN-029
Trenton, New Jersey 08625
(609) 292-0686

Very truly yours,

ARNOLD SCHIFFMAN
DIRECTOR
DIVISION OF WATER RESOURCES

PAUL GIARDINA
DIRECTOR
DIVISION OF HAZARD MANAGEMENT

~~NJ10~~ NJD097408943

ARTHUR KILL INDUSTRIAL PARK
a/k/a State St. Industrial Park
1050 State St.
Perth Amboy/Middlesex Co.

The Arthur Kill Industrial Park site was formally operated by National Lead Industries. PCB-contaminated material from a sewer overflow has contaminated the soil as well as Crane's Creek a nearby surface water. Lab analysis indicates presence of PCB"s in catch basins of sewers; this problem being a part of a more widespread PCB problem in this area.

An on-site inspection is recommended to determine the nature and extent of the PCB problem and the lead smelting and refining operations that formally occurred on-site.

Submitted by

Perry Katz
Environmental Specialist
NJDEP - HSMA
RCRA 3012 Project

HM-012

13-147

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Ron Corcory

FROM Jonathan Berg and Thomas Brady DATE July 7, 1980

SUBJECT ABANDONED HAZARDOUS WASTE, 1050 STATE STREET INDUSTRIAL PARK, PERTH AMBOY, MIDDLESEX COUNTY, BLOCK NUMBER 428, LOT NUMBERS 1 AND 1C

On July 7, 1980, while inspecting a pile of promiscuously dumped drums and garbage at the southern end of the above referenced industrial park, we were approached by an employee of Snoopy's Garage (motor vehicle repair), and told by him that in the building behind Snoopy's Garage were several 55-gallon drums that fellow employees had advised him to stay away from. We entered the ground floor of the building and found 29 55-gallon drums against the rear wall. Several of these drums were marked "Copper Sludge". The drums were corroded and there was some evidence of leakage. One of the drums had a small hold near the bottom and we could see a green asklike substance within it.

We further inspected the ground floor of this building and found four to six pallets of abandoned laboratory chemicals. There was a distinct chemical odor in the air. After putting on respirators and rubber gloves, we further inspected the palletized chemicals and were able to identify the following chemicals:

1. Chloride coloring agent working solution - Harleco - 64600 - Danger, may be fatal or cause blindness if swallowed. Can not be made non-poisonous.

2. .25 Normal Nitrate Acid - Harleco - 64649

3. Ortho Tolidine Solution - Lot number 1908 - Harleco - Gibbstown, New Jersey

4. Xylenes - Lot number 110 - C4330 - A dangerous poison - Scientific Products

5. Mercuric Thio Cyanate

6. Beneze Reagent - ACS - 13012 - Danger, extremely flammable, harmful is inhaled.

7. Formaldehyde - Scientific Products - Lot number 9986 - 37% Solution

8. Potassium Hydroxide, Oxford Laboratory Industrial, Foster City, California - Catalog number 940B - Reference, Bureau of Explosives, Lab number 62859, Class: Corrosive material

9. Potassium Sulfate Powder - Malinckrodt, Paris, Kenney

10. Sodium Bromide, Granular - Malinckrodt, Paris, Kenney

11. Mercuric Perchlorate - Harleco, Gibbstown, New Jersey

12. trans - 1,4 dichioro 2-Butene. Warning - harmful if absorbed thru skin. Harmful is inhaled, Lot number A8A

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO George Smajda, Keith Onsdorff

FROM Jonathan Berg, Bur. of Haz. Waste DATE April 24, 1981

SUBJECT Sewer Line Blockage at Garretson Avenue, Perth Amboy, Middlesex County

On April 16, 1981 I received a call from Keith Onsdorff requesting that I meet with Division of Water Resources' personnel on April 17, 1981, in Perth Amboy, to point out a potential source of the subject sewer line blockage. During the evening of April 16, 1981, I received phone calls from Jim Mummin (D.W.R.) and Bill Honachefsky (D.W.R.), who further detailed to me the sampling to take place on April 17, 1981.

On April 17, 1981, I arrived at State Street in Perth Amboy, at approximately 8:35 a.m. I was met by the following D.W.R. personnel: Chris Schiller, Anthony Altieri, Michael Arecco and Joe Specht. At this point it was decided that Joe Specht would accompany me to the Arthur Kill Urban Industrial Park, 1050 State Street, Block 428, Lots 1 and 1C, Perth Amboy, Middlesex County, in order to sample a potential source of the sewer blockage.

Joe Specht and I proceeded to Building 25 in the rear of the Industrial Park, which appeared to be some type of pumping station. Approximately ten feet to the west of Building 25 (see sketch) is a 20' x 20' x 20' cement below ground pit. About ten feet north of this pit is an access hole to what appears to be a sewerage or drainage system which runs underneath the Industrial Park.

At 9:45 a.m. Joe Specht and I commenced sampling of the 20' x 20' x 20' pit. Sample numbers 01272A and 01272C were taken from the upper liquid portion of the material in the pit. Sample number 01272B was taken, using a ponar dredge, of the sludge at the bottom of the pit. At 10:10 a.m. sample number 01271 was taken from the upper liquid portion in the sewer/drainage access hole by Joe Specht and myself.

Samples 01271 and 01272C were to be analyzed for volatile organics. Samples 01272A and 02172B were to be analyzed for PCBs. The four samples involved were to be taken by Joe Specht to the Mobile Laboratory at Chemical Control in Elizabeth for analysis. I asked Joe Specht to initiate chain of custody forms for these four samples.

The sampling operation ended at 11 a.m.

Results of Analyses

Sample 01271

370 ppb - dichloromethane
22 ppb - toluene

Results of Analyses (Cont'd)

Sample 01272A

1 ppb - PCBs in water

Sample 01272B

3.1 ppm - PCB's in sediment

Sample 01272C

1100 ppb - dichloromethane
34 ppb - 1,1-dichloroethene
16 ppb - 1,1-dichloroethane
130 ppb - trans.-1,2-dichloroethene
26 ppb - trichloroethene
99 ppb - 1,1,1 - trichloroethane
3700 ppb - toluene
190 ppb - ethylbenzene
Trace - acetone
120 ppb - 1,1,2,2 - tetrachloroethane

The above results were given to me over the phone by Edwin Leu of the Division of Hazard Management on April 23, 1981.

cc: Jim Mummim, Division of Water Resources
Joe Specht - Division of Water Resources

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO George Smajda

FROM Jonathan Berg JB DATE May 4, 1981

SUBJECT ARTHUR KILL URBAN INDUSTRIAL PARK, 1050 STATE STREET, BLOCK 428, LOTS 1 AND 1C, PERTH AMBOY, MIDDLESEX COUNTY

On March 24, 1981 I conducted a tour of the above subject site for a potential buyer of the property. The tour was arranged by John Serkies of the Division of Environmental Quality. The prospective buyer is Mr. N.H. Brown of Physical Distribution Systems, Inc., 101 Fayette Street, Perth Amboy (201-442-6400).

During the tour I attempted to identify the obvious environmental problems associated with the subject industrial park. The obvious problems are as follows (refer to sketch):

1. At location A there are 29 55-gallon drums of what appears to be copper sludge. These drums have been abandoned at this location (see attached memo dated July 7, 1980).

2. At locations B and C are four (4) to six (6) pallets of abandoned laboratory chemicals. For a partial list of these abandoned chemicals please refer to the attached memo dated July 7, 1980.

3. At location D is a large pile (approximately 60 ft. x 220 ft.) of promiscuously dumped garbage mixed with 55-gallon drums. Several of these drums contain a black oily sludge, some of which is leaking onto the ground.

4. At location E is a horizontal yellow tank, approximately 10,000 gallon capacity, that is half full of an oil like substance. A solvent like odor was noticed emanating from this tank.

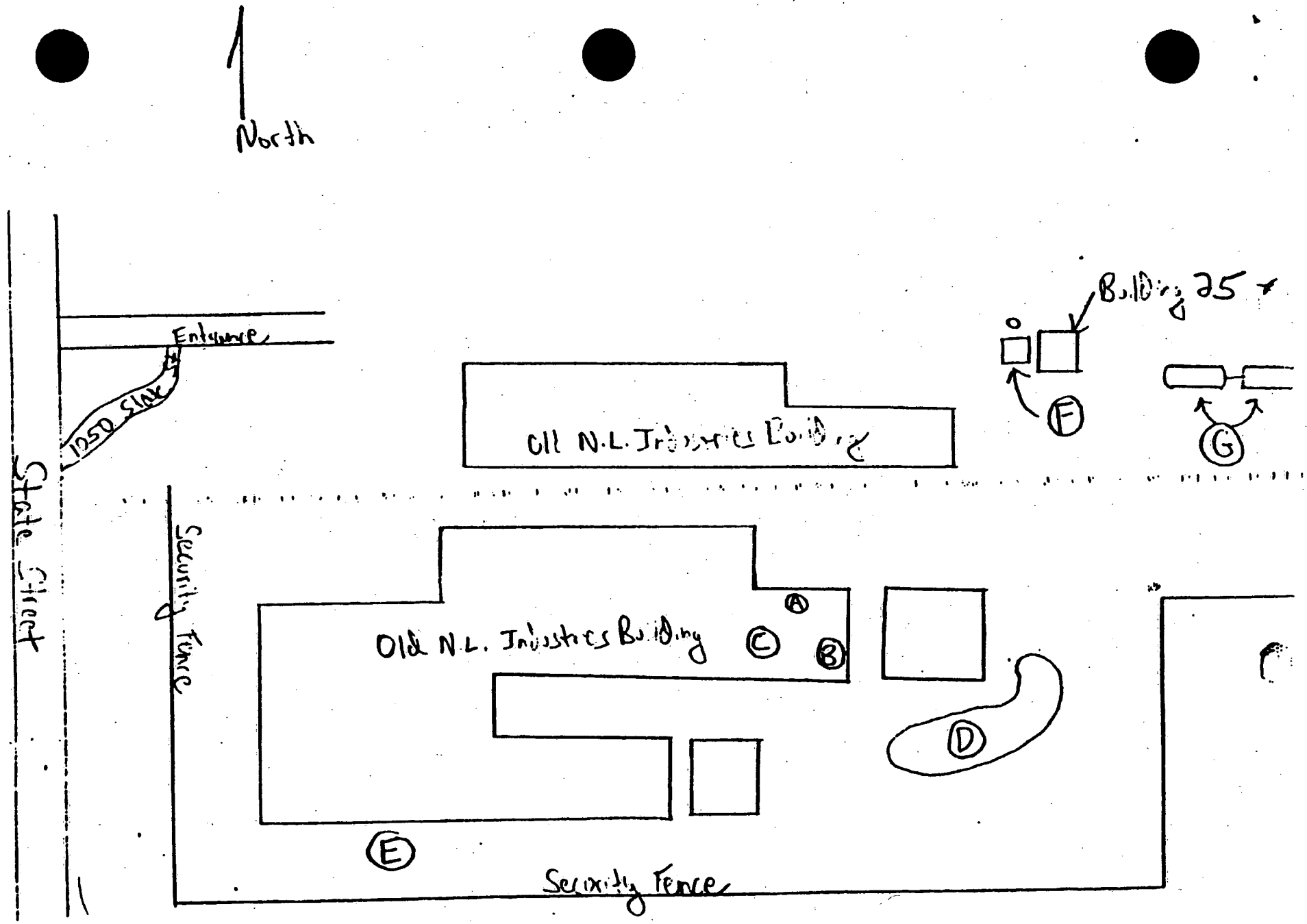
5. At location F is a 20' x 20' x 20' below ground pit. Just north of this pit (approximately 10 feet) is an access hole to a sewage or drainage system. The attached memo dated April 24, 1981 details the contaminated waste found in the pit and access hole. Please note that the sludge and liquid in the pit contains 3.1 ppm PCB's and 10 different organic chemicals ranging from trace levels to 8700 ppb in concentration.

6. At location G there are two (2) green horizontal storage tanks, each approximately 10,000 gallon capacity. The western-most tank is approximately two-thirds full of what appears to be fuel oil. It was not possible to observe the contents of the eastern-most tank.

7. This entire complex is littered with trash, bulky debris, empty 55-gallon drums and several full or partially full 55-gallon drums containing material of an unknown nature.

At the end of the tour I informed Mr. Brown that since the building was at one time occupied by N.L. Industries that potential lead contamination would also have to be investigated. Mr. Brown would like to meet with Department representatives to further discuss this site. I recommend that the meeting should include personnel from the Division of Water Resources, Division of Hazards Management and the Bureau of Hazardous Waste. I will attempt to set up a meeting sometime during the week beginning May 4, 1981.

JB:ps
cc: John Serkies


North
State Street
Entrance
125D SLAX
Security Fence
Old N.L. Industries Building
Old N.L. Industries Building
A
B
C
D
E
F
G
Building 25
Security Fence

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO DAG Ron Heksch THROUGH: James E. Murman, Chief, Region II

FROM John Tomasiello, Compliance Investigator II, Region II DATE APR 25 1983

SUBJECT Perth Amboy Sewer Break

On April 21, 1983, while driving in the vicinity of State Street and Garretson Avenue in Perth Amboy, I observed a contractor, (Sadowski Contracting Company) repairing a sewer line break for the City of Perth Amboy. I stopped at the site to make an inspection. Listed below are the pertinent events of the day:

1. The sewer break was in the 24" sewer bypass line leading to Cranes Creek, in the grass island area of the State Street jug handle. The pipe was approximately 10' deep and the water talbe was approximately 7 ft. deep.

2. Approximately 501 gallons per minute of raw sewage was being pumped by the contractor from the excavated area and discharged over land onto the jug handle, then a vacant lot and thence to Cranes Creek.

3. The 24" clay pipe bypass looked as though it had "collapsed."

4. I met John Rikowski, Assistant Engineer for the City of Perth Amboy at the site. I asked Mr. Rikowski if he notified DEP about the sewer break. He said that he did not know he had to. I informed him that it was required to notify DEP and gave him the DEP "Hot Line" number. Also, I advised him to have the contractor pump the sewage into an inlet on the jug handle which drains into Cranes Creek, instead of pumping the sewage over land to Cranes Creek. He complied with the request.

5. I also observed that none of the workmen were wearing any protective clothing. I informed Mr. Rikowski that the men should be wearing some protective clothing, since PCB's are known to be present in the sewer line. Mr. Rikowski said that it was discussed with the contractor, however, since there last sample taken for PCB's from a manhole on State Street approximately two weeks ago showed low levels of PCB's, it was decided that no protective clothing was needed. I informed Mr. Rikowski that in my opinion, the men should be wearing some protective clothing. Note: The low level was approximately 3 ppm as per Mr. Rikowski. Also, the sample was taken on the sewer mainline, not the bypass line where the men were working.

6. I further informed Mr. Rikowski that the area should be cordoned off, lime spread on the area where the sewage flowed, and the material removed and properly disposed of. He said that he only had a few bags of lime and that he wanted something in writing from DEP stating that the material would have to be cleaned up and analyzed for proper disposal. I informed him that his request would be relayed to my supervisor.

7. I called Richard DeNito several times during the course of the day in order to appraise him of the situation.

8. I went to the Middlesex County Health Department and advised Mr. Don Dingler on what was taking place. He said that they were not aware of the overflow, and that he agreed with my recommendation, regarding clean-up, protective clothing, liming, etc. and that he would call the City to advise them. Also, he stated that an inspector would be sent to the site when one is available sometime today.

9. I returned to the site and observed some city workers trying to unclog the sewer main on State Street with a "jet truck". They were not wearing any protective clothing or gloves. I asked them if they received any instructions from their supervisors about the presence of PCB's in the sewer line, the use of protective clothing and how to handle contaminated sewer sludge. They stated that no one gave them any information regarding PCB's.

10. At the excavated site, an 8" steel pipe was exposed. Since the clay pipe sitting directly on the 8" pipe, this was the probable cause of the bypass line collapsing.

11. Since ownership of the 8" pipe could not be determined and therefore not relocated, part of the invert (bottom section) of the 7½ long 24" reinforced concrete replacement pipe was removed to maintain proper grades. Also, since the new pipe did not "butt" tight against the existing pipe, which left a wide joint of approximately 4" on one end, places of the old broken clay pipe were placed by the joints and hand mixed concrete placed.

12. Since Mr. Rikowski left the site, I informed the City's foreman that at best the repair should be considered temporary.

13. I went back to the jet truck and took a sample for PCB analysis (Sample #06521) of the material that was sticking to the jet hose. They were unsuccessful in unclogging the sewer line. The extent of blockage was not determined, however, it appeared that ½ the diameter of the pipe was clogged in places.

14. I left the site at 4:15 p.m. The pipe was being backfilled and some lime was being spread.

Special Notes & Observations:

1. In talking to area residents, it appears that this break has been in existence for two weeks or more.

2. The owner of Stevens Bar, Mr. John Graul of 979 State St. informed me that approximately two weeks ago a manhole on State St. overflowed and sticky light brown material overflowed onto State Street and the sidewalk area. The material was tracked into the tavern, and stuck to the floor. He stated that he was only able to remove the sticky material with amonia. Also, he cleaned the material from his sidewalk area and placed it in a box on the curb which was subsequently carted away by the city garbage truck. In addition, he called the Middlesex County Health Department at the time of the overflow and they took a sample, but as of this date, they have not advised him of their findings. (The Health Department advised me they did not analyze the sample since the City said they were going to sample the material). Mr. Graul further stated that the Health Department gave him no guidance or information on the material possibly being contaminated.

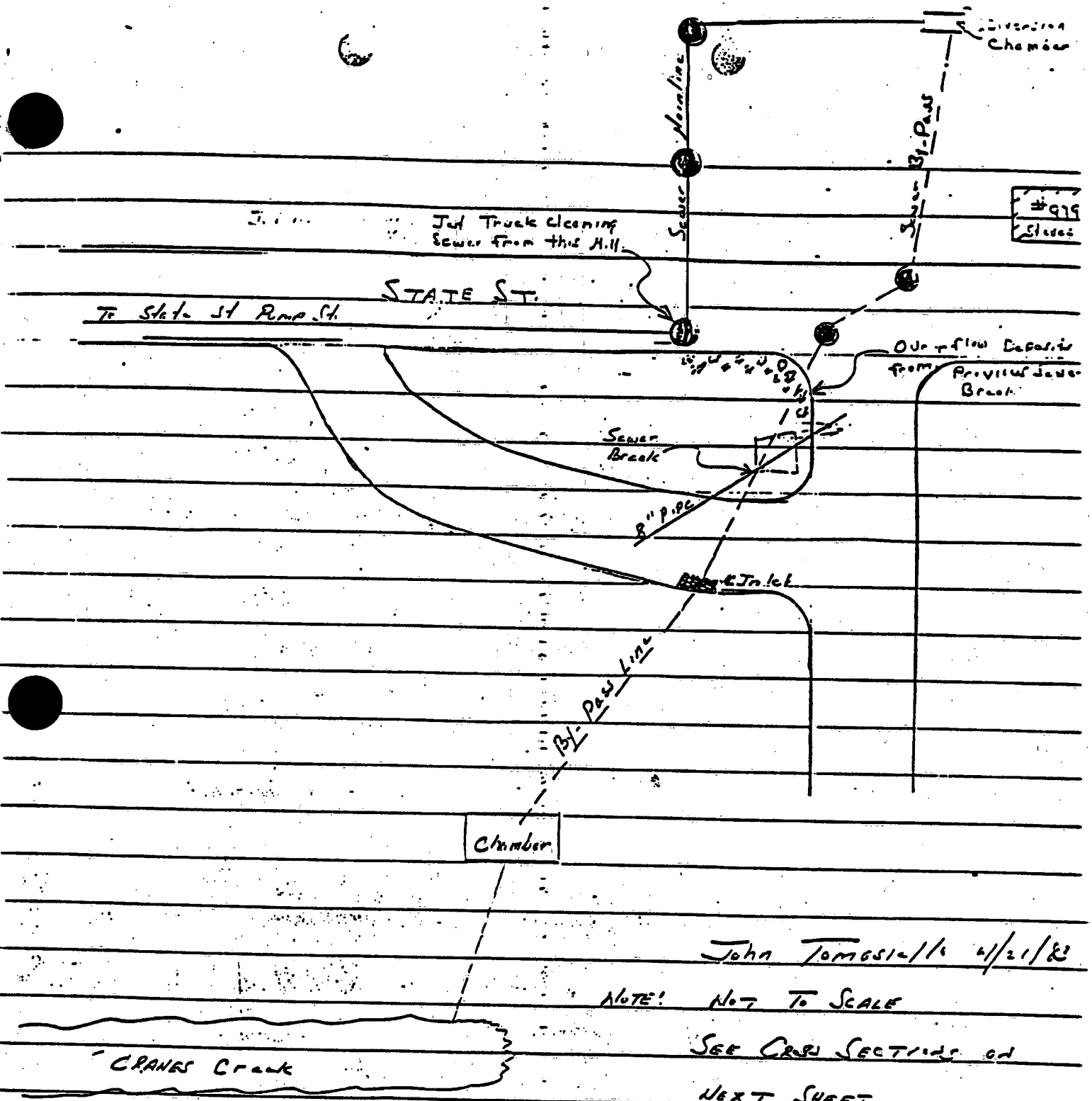
3. There is evidence of overflow sticky material on the east side of State Street by the jug handle.

Notes: See attached map for all details.

A35:G9:G12

Attachment

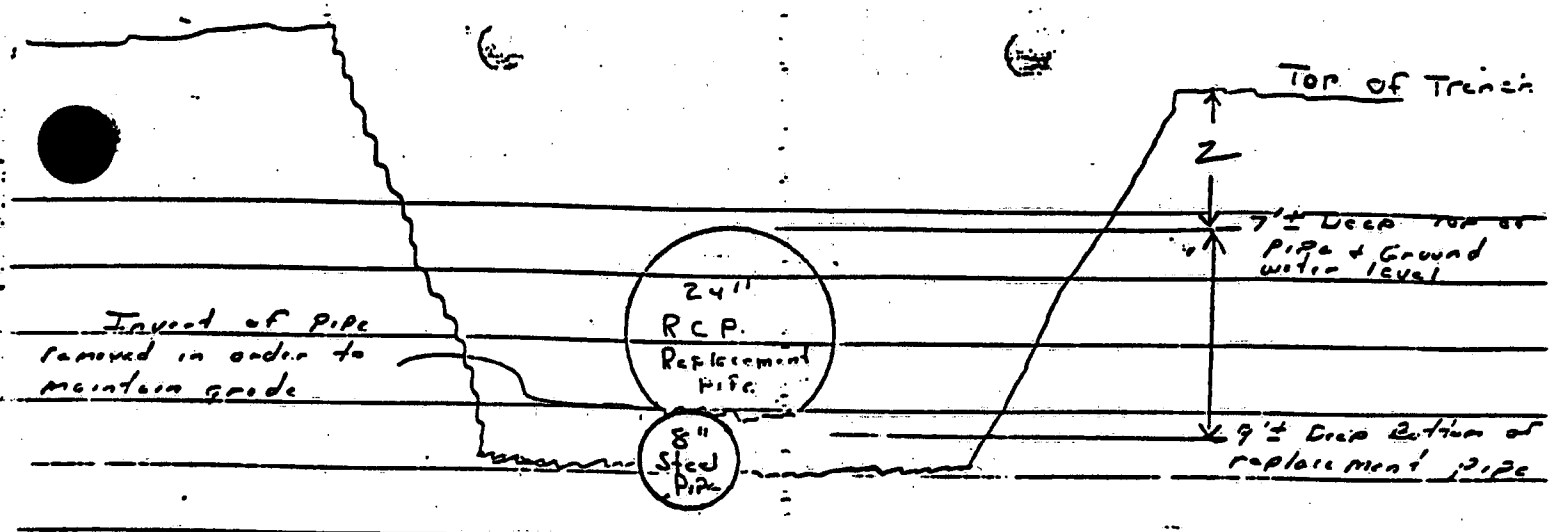
cc: J. Mumman/Region II File
John Tomasiello
General File
Enforcement File
T. Haley
C. Maack
R. DeNito



John Tomasiello 4/21/83

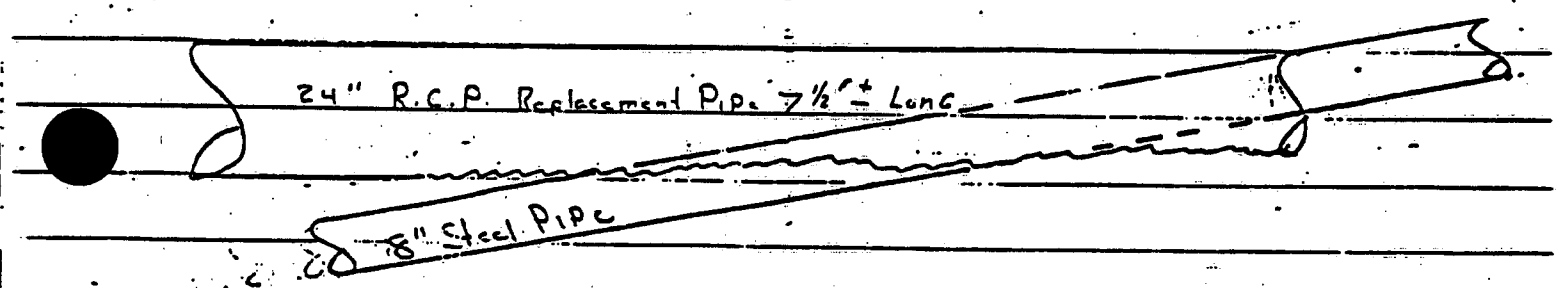
NOTE! NOT TO SCALE

SEE CROSS SECTIONS on NEXT SHEET



CROSS SECTION OF PIPE REPLACEMENT

FRONT VIEW



CROSS SECTION OF PIPE REPLACEMENT

SIDE VIEW

NOT TO SCALE

John Tomasiello 4/21/23

ADM-012

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO DAG Ronald P. Heksch THROUGH James E. Mumman, Chief, Region II

FROM John Tomasiello, Compliance Investigator II, Region II DATE May 10, 1983

SUBJECT PCB Sampling - Sewer Overflow Material, Perth Amboy

On May 4, 1983, the writer and Joe Buttich of Waste Management visited the City of Perth Amboy to sample raw sewage overflow sediment in the vicinity of the State Street jug handle near Arthur Kill Industrial Park.

Listed below are the pertinent facts regarding the sampling:

Sample #	Sampling Time	Soil Characteristic	Location
06525	0830	white sewer solids	135' east off east curbline of jug handle and 130' off south edge of access road to Arthur Kill Industrial Park (AKIP)
06536	0840	white sewer solids	160' east off east curbline of jug handle and 145' off south edge of access road to AKIP
06527	0850	top soil	40' east off east curbline of State Street, 1' behind north curbline of access road to AKIP

Since sample #06527 was collected outside the present sewer overflow area, it will possibly be used for background information. However, since it cannot be determined if the area where this sample was taken may have been contaminated from previous overflows, additional background samples may be required.

The material for all samples were placed directly into PCB clean 4 ounce bottles supplied by the DOH lab.

All samples were delivered to the DOH lab by the writer this date accompanied by a Chain of Custody.

See attached map for sample locations and area of visable sewer sediment.

35:G9
tachment
c: Jim Mumman
Ann Simonoff, DAG
Tim Haley
Joe Buttich
Charles Maack
Richard DeNito

22

#6 M 7

ADM-012

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Mike Catania, Office of Regulatory Services

FROM James E. Mumman, Chief, Region 11 DATE May 17, 1983

SUBJECT Perth Amboy Sewerage Overflow

Attached hereto is a sketch with approximate dimensions delineating the areas of visable sewerage overflow material.

Also, listed on the sketch are four (4) sampling locations and their PCB analysis. Three (3) samples were taken of the sewerage overflow material and one (1) sample was taken for background information.

cc: Waste Management
Charles Maack
R. DeNito
J. Tomasiello

Attachment

bcc: General File
Enf. File
Region II File

ATTACHMENT "B"

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Tim Haley, Regulatory Services THROUGH James E. Mumman, Chief, Region II, Enforcement Element

FROM John Tomasiello, Compliance Investigator II, Region II

DATE JUL 1 3 1983

SUBJECT Perth Amboy PCB Sampling

On June 14, 1983, the writer visited the City of Perth Amboy for the purpose of collecting PCB samples and checking the sewer bypass line into Cranes Creek. Listed below are the events of the day.

1. Sample #06531 at 9:05 a.m. - vacuum filter sludge sample was collected directly into a PCB clean bottle off the vacuum filter.

2. Sample #06531 at 10:15 a.m. - tributary sediment sample of stream sediment was collected directly into a PCB clean bottle.

3. At 10:40 a.m., a site inspection of Cranes Creek revealed that raw sewage was still being discharged into the creek via the bypass line. (see attached picture).

The site investigation of Cranes Creek also revealed that some material was dumped on the east slope of the creek. (see attached pictures).

The writer then went to Arthur Kill Industrial Park which is located on the east of Cranes Creek to investigate further the origin of the dumped material. The ter talked to a Mr. Robert Eitzen, a representative for the property owner, Mr. Newborne Browne. Mr. Eitzen informed the writer that the industrial park has a line leading to Cranes Creek which was blocked at the point of discharge. Mr. Eitzen stated that he received permission from the City Engineer, Mr. Martin Langenohl to excavate the material from Cranes Creek which was blocking their pipe and place the excavated material on the east slope. Mr. Eitzen further stated that the excavation was accomplished by reaching over their fence with a backhoe.

In addition, the writer learned in talking to a City sewer worker that when the City tried to clean the State Street sewer line with a jet hose truck last week from the State Street pump station to the jughandle, the City workers used only rubber gloves. Also, the material on the hose was removed by using a chemical detergent and gasoline.

The PCB samples were taken to the DOH laboratory this date accompanied by a Chain of Custody.

Recommendations and Conclusions:

1. Mr. Langenohl should be advised that DEP must be informed prior to his authorizing any work to be undertaken in the contaminated stream or sewer lines.

Mr. Langenohl should notify DEP if the persons who excavated the material from Cranes Creek were made aware of the PCB contamination and if proper precautions were taken to protect the workers.

3. DEP should also determine how and where the backhoe was cleaned.

4. Mr. Langenohl should inform the DEP if the City workers were made aware of the PCB's in the sewer line and if proper precautions were taken to protect the workers.

5. Mr. Langenohl should notify DEP how and where the truck hose was cleaned.

A35:G9

Attachment

c: George McCann
Ron Heksch
Anne Simonoff
Tony Farro
Joseph Wiley

bcc: General File
Enf. File
Region II File

Clean Venture, Inc.

1160 State Street, P.O. Box 936, Perth Amboy, N. J. 08862
(201) 442-4900 • (201) 225-4130

Industrial MISCELLANEOUS

EDWIN

MOST CURRENT CORRESPONDENCE FOUND.
10/6/83

August 25, 1983

PLEASE REVIEW & COORDINATE W/ MUHMAL & CHARLEY
L. CATA-
THANK
A.M.

State of New Jersey
Department of Environmental Protection
Office of Regulatory Services
CN402
Trenton, N.J. 08625

Attn: Mr. Timothy S. Haley

Dear Mr. Haley:

Enclosed please find blueprints and analysis with covering sheet indicating a three-phase plan for Custom Distribution Services, Inc. in Perth Amboy (State Street Industrial Park). Our primary objective is to make operational the sanitary sewer system with the installation of approximately 300 ft. of new 8" sanitary force main tied into the existing sanitation sewer on the State Street Industrial Park site. This would allow the existing clients and new clients access for immediate usage of the sanitation system. Presently there are a number of clients on the State Street Industrial Park property that do not have sanitation service. This will allow immediate usage of the sanitation system by these people.

Plan II:

(Letter enclosed)

Plan III:

If Plans I and II are acceptable, Plan III would be the sealing and capping off of the existing 1700 ft. of 8" forced main from the holding tank to State Street. Enclosed please find a copy of the sampling data with analysis showing the present detection levels. We understand that this Plan III is a nonpriority to Custom Distribution and is, in fact, the priority to the N.J. Department of Environmental Protection.

It behooves Mr. Brown to implement Plan I immediately upon your approval, Plan II to follow shortly thereafter or in conjunction with Plan I, and Plan III to follow immediately in conjunction with Plan II.

If this meets with your approval, please reply.

Very truly yours,

CLEAN VENTURE, INC.

Gary E. Wagner

Gary E. Wagner
Vice President

GEW/hfs

Enclosures

CC: Mr. Mumman

June 29, 1985

Sample	Time	Sample number
1. Black tarry substance from rear outlet pipe of red trailer (Heil) Carrier's Serial # REV-5-65 Veh. I.D. # 906204 owner Marine Systems	12:30	C28884
2. Oil-like liquid from white tank trailer truck (license plate XMC-38H "Duane Marine Corp." owner Marine Sys.	12:45	C28885
Spill-over sediment from waste oil storage tank #12 prior to processing	1:20	C28886
Green 1985 International Trailer CS1825710475 Painted on door "Home Del Const. Co Hamdel - N.J."	1:35	C28887
Sample from 1-2" layer of sludge in bottom of empty tank, owner Marine		
'66 Green Chevy Bonnel truck lic # XVJ-5UN AC6836T0288 On door "Home Leasing DA, N.J."	1:55	C28888

	Time	Sample #
Blue & Orange Trailer "Gulf Solar Heat"	2:05	C28889

"Frank Taibi + Sons" Standard Model
5800 gal tank. # 53236164 owner
unknown. Permission granted to sample
by Paul Gallagher

Listed above are the sites sampled on June 26, 1981
by the following NJDEP representatives:

John Tomasiello [signature]
Eric Peterson [signature]
Tony DeBonis [signature]

Copies presented to Paul Gallagher - Property owner representative
and John Guy - Marine Systems, Inc. representative

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

MUNICIPALITY Perth Amboy	COUNTY Middlesex	STREAM
FA[redacted]Kill Industrial Pk	LOCATION 850 State St.	
RE[redacted]NTATIVE John Guy	TITLE	COLL NAME Tomasello
REMARKS Sample from red tank trailer		

BACT. LAB NO.
DATE REC'D.
BOTTLE NO. C28584
DATE REC'D.
STORET ENT.
READ

STATION IDENTIFICATION NUMBER	YR. MO. DAY	HOUR
SC,	810626	750,

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity ‰	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fec[redacted]m Total [redacted]rm	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613,

☐ Fecal Strept MPN /100 ml P31677,

☐ Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC.%

BOD

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS
☑ PCB 1254	PPM	P	.656	
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1(White) - Water Quality Inventory Copy
Part 2(Green) - Chemistry Copy
Part 3(Pink) - Water Resources Copy(For Transmittal)
Part 4(Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C28885
DATE REC'D.	
STORET ENT.	
STORET READ	

MUNICIPALITY Perth Amboy	COUNTY Middlesex	STREAM
FACILITY Arthur Kill Industrial Pk	LOCATION 1050 State St.	
REPRESENTATIVE Guy	TITLE	COLL NAME Tomasiello
REMARKS Oil-like liquid from white tank truck		

STATION IDENTIFICATION NUMBER: SC,

YR. MO. DAY: 810622

HOUR: 1245

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity ⁰/₀₀	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total C	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613,

☐ Fecal Strept MPN /100 ml P31677,

☐ Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %

BOD _

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☑ PCB 12.54	PPM	P	3	K
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 4 (Yellow) - Bacteriology Copy

m VST-010
9

ASE TYPE OR PRINT
TH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

MUNICIPALITY Perth Amboy	COUNTY Middlesex	STREAM	BACT. LAB NO.
FACILITY Industr. DK.	LOCATION 1015 State St.		DATE REC'D.
PRESERVATIVE	TITLE	COLL NAME Tomasiello	BOTTLE NO. C28886
REMARKS Sludge outside tank 12			DATE REC'D.
			STORET ENT. READ

STATION IDENTIFICATION NUMBER	YR. MO. DAY	HOUR
SC,	810626	1320,

FIELD ANALYSIS

Water Temp °C	P10,	
D.O.-Winkler	P300,	
D.O.-Probe	P299,	
pH (Field)	P400,	
Sample Depth-ft.	P3,	
Gage Height-ft.	P65,	
Spec. Cond. @ 25°C	P95,	
Salinity ‰	P480,	
Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coli / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

☐ Fecal coli /100 ml ☐ MPN P31615, ☐ MF. P31613,

☐ Fecal Strept MPN /100 ml P31677,

☐ Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
DOD			

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☑ PCB 1254	PPM	P	55	K

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 4 (Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C2885
DATE REC'D.	
STORET ENT.	
READ	

MUNICIPALITY: Perth Amboy	COUNTY: Middlesex	STREAM:
FACILITY: Kill Ind. Pk	LOCATION: 1015 State St.	
REPRESENTATIVE:	TITLE:	COLL NAME: Tomasiello
REMARKS: Sludge from green tank truck		

STATION IDENTIFICATION NUMBER: SC. | YR. MO. DAY: 810826 | HOUR: 1335.

FIELD ANALYSIS

☐ Water Temp °C	P10.	
☐ D.O.-Winkler	P300.	
☐ D.O.-Probe	P299.	
☐ pH (Field)	P400.	
☐ Sample Depth-ft.	P3.	
☐ Gage Height-ft.	P65.	
☐ Spec. Cond. @ 25°C	P95.	
☐ Salinity ‰	P480.	
☐ Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615. ☐ MF P31613.

☐ Fecal Strept MPN /100 ml P31677.

☐ Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %

BOD

☐ BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

☑	ANALYSIS	UNITS	PARAMETER	VALUE	RMKS
☑	PCB 1254	ppm	P	B	
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		
☐			P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission
Part 4 (Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

29

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C 28888
DATE REC'D.	
STORET ENT. READ	

MUNICIPALITY: Perth Amboy	COUNTY: Middlesex	STREAM:
FACILITY: Ar[redacted] Kill Indi Pk.	LOCATION: 1015 State St	
REPRESENTATIVE: John Guy	TITLE:	COLL NAME: Tomasiello
REMARKS: Sample from barrel on truck		

STATION IDENTIFICATION NUMBER: SC

YR. MO. DAY: 810625

HOUR: 1355

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @25°C	P95,	
☐ Salinity ⁰/₀₀	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal C[redacted] / Total C[redacted]	10	1	-1/10	-2/10	-3/10	-4/10	-5/10	-6/10
Fecal Streptococci	10	1	-1/10	-2/10	-3/10	-4/10	-5/10	-6/10

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613,

Fecal Strept MPN /100 ml P31677,

Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %

BOD

BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS
☑ PCB AR1260	ppm	P	100	K
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		

DATE	TIME	CHAIN OF CUSTODY FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmittal)
Part 4 (Yellow) - [illegible]

Form VST-010
1/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

MUNICIPALITY	rth Amboy	COUNTY Middlesex	STREAM
FACILITY	Arthur Kill Ind. Pk.	LOCATION 1815 State St.	
REPRESENTATIVE	John Guy	TITLE	COLL NAME Tomasie 116
REMARKS	From tank trailer		

BACT. LAB NO.
DATE REC'D.
BOTTLE NO. C28889
DATE REC'D.
STORET ENT.
READ

STATION IDENTIFICATION NUMBER: SC.
YR. MO. DAY: 810626
HOUR: 1405.

FIELD ANALYSIS

Water Temp °C	P10.	
D.O.-Winkler	P300.	
D.O.-Probe	P299.	
pH (Field)	P400.	
Sample Depth-ft.	P3.	
Gage Height-ft.	P65.	
Spec. Cond. @ 25°C	P95.	
Salinity ‰	P480.	
Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Total Coliform								
Fecal Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615. ☐ MF P31613.

Fecal Strept MPN /100 ml P31677.

Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE
SEED YES ☐ NO ☐

CONC.%			
BOD			

BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
PCB AR1260	PPM	P	.23.9	
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		

	TIME	CHAIN OF CUSTODY FROM (NAME)	TO (NAME)

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

COC

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C-1423
DATE REC'D.	
STORET ENT. READ	

MUNICIPALITY Perth Amboy	COUNTY Middlesex	STREAM —
FACILITY [redacted]ystems C. Inc.	LOCATION 1150 State St. Arthur Kill Ind. Park	
REPRESENTATIVE —	TITLE —	COLL. NAME Tomasiello
REMARKS SLUDGE SAMPLE TAKEN FROM BOTTOM OF TANK NO. 3 (Finished Reprocessed Oil Tank)		

STATION IDENTIFICATION NUMBER	YR. MO. DAY	HOUR
SC.	810623	1540.

FIELD ANALYSIS

☐ Water Temp °C	P10.	
☐ D.O.-Winkler	P300.	
☐ D.O.-Probe	P299.	
☐ pH (Field)	P400.	
☐ Sample Depth-ft.	P3.	
☐ Gage Height-ft.	P65.	
☐ Spec. Cond. @ 25°C	P95.	
☐ Salinity ‰	P480.	
☐ Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml	☐ MPN P31615. ☐ MF P31613.	
☐ Fecal Strept MPN /100 ml	P31677.	
☐ Tot coli MPN /100 ml	P31505.	

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
BOD			

☐ BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB 1260	PPM	P	.16.62	1.
☐		P	.	1.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.
☐		P	.	.

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy Part 3 (Pink) - Water Resources Copy (For Transmittal)

ST-010

USE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

24 COC

MUNICIPALITY: North Amboy	COUNTY: Middlesex	STREAM: —
FACILITY: Arthur Kill Ind. Park	LOCATION: Arthur Kill Ind. Park	
REPRESENTATIVE: —	TITLE: —	COLL NAME: Jracht / Tomasielle

REMARKS: Grab Sample of Sludge from 18" & 24" underground oil storage Tank - 60' From 700,000 ± Gal Above ground Tank owned by Parks Transfer

BACT. LAB NO.
DATE REC'D.
BOTTLE NO. C-12422
DATE REC'D.
STORET ENT. READ

STATION IDENTIFICATION NUMBER: SC.

YR. MO. DAY: 86 06 23

HOUR: 1350.

FIELD ANALYSIS

☐ Water Temp °C	P10.	
☐ D.O.-Winkler	P300.	
☐ D.O.-Probe	P299.	
☐ pH (Field)	P400.	
☐ Sample Depth-ft.	P3.	
☐ Gage Height-ft.	P65.	
☐ Spec. Cond. @ 25°C	P95.	
☐ Salinity ‰	P480.	
☐ Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml: ☐ MPN P31615. ☐ MF P31613.

☐ Fecal Strept MPN /100 ml P31677.

☐ Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC.%			
BOD			

☐ BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB	PPM	P	64.0	K
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		
		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmittal)
Part 4 (Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

Lot 30 Fil[illegible]

MUNICIPALITY	COUNTY	STREAM
Perth Amboy	Middlesex	—
FACILITY [redacted] kill Ind. Park	LOCATION Arthur Kill Ind. Park	
[redacted]NTATIVE	TITLE	COLL NAME Specht / Tomasiek

RE[redacted]KS Grab Sample from Blue Trailer # T 121 and Fuel Oil written on Trailer

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C-28853
DATE REC'D.	
STORET ENT.	
STORET READ	

STATION IDENTIFICATION NUMBER: S C ,

YR. MO. DAY: 81 06 29

HOUR: 1235

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O. Winkler	P300,	
☐ D.O. Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity °/oo	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal [redacted]	10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}
Fecal Streptococci	10	1	10^{-1}	10^{-2}	10^{-3}	10^{-4}	10^{-5}	10^{-6}

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613,

☐ Fecal Strept MPN /100 ml P31677,

☐ Tot coli MPN /100 ml P31505,

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) ______ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
BOD			

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312,

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB	PPM	P	10	K
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)
[redacted]			

Chemist Review ______

Part 1 (White) - Water Quality Inventory Copy Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 2 (Green) - Chemist...

VST-010

LSE TYPE OR PRINT
BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources
WATER ANALYSIS

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C:28854
DATE REC'D.	
STORET ENT.	
STORET READ	

ICIPALITY: Atlantic	COUNTY: Middlesex	STREAM:
LITY: Arthur Kill Jnd. Park	LOCATION: Arthur Kill Jnd. Park 1050 State St	
RESEN OF:	TITLE: Officeman	COLL NAME: Specht / Tomasielli
ARKS: Grab Sample of Sediment from Silver Colored Pickup Truck TN-7321V - Owner O.I Systems Co.?		

STATION IDENTIFICATION NUMBER: SC

YR. MO. DAY: 810429

HOUR: 1250

FIELD ANALYSIS

ter Temp °C	P10.	
O.-Winkler	P300.	
O.-Probe	P299.	
(Field)	P400.	
mple Depth-ft.	P3.	
ge Height-ft.	P65.	
ec. Cond. @ 25°C	P95.	
linity ‰	P480.	
de Stage	P78211.	

TERIOLOGICAL - DILUTIONS (REQUESTED)

l Coliform		1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
l Coli								
l otococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

l coli /100 ml ☐ MPN P31625. ☐ MF P31613.

Fecal Strept MPN /100 ml P31677.

Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %

BOD

BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB-AR 1248	PPM	P	.53.02	
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 4 (Yellow) - Bacteriology Copy

412

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

WATER ANALYSIS

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C 28855
DATE REC'D.	
STORET ENT. READ	

MUNICIPALITY: North Arlington	COUNTY: Middlesex	STREAM: —
FACILITY: Kill Pond Park	LOCATION: 1050 State Street	
REPRESENTATIVE: [illegible]	TITLE:	COLL NAME: S. Pecht / Timothy Ho
EMA[illegible]	Take Sample from Sewer line Catch Basin at [illegible]	

STATION IDENTIFICATION NUMBER: SC. [illegible]

YR. MO. DAY: 810629 HOUR: 1320

FIELD ANALYSIS

Water Temp °C	P10.	
D.O.-Winkler	P300.	
D.O.-Probe	P299.	
pH (Field)	P400.	
Sample Depth-ft.	P3.	
Gage Height-ft.	P65.	
Spec. Cond. @ 25°C	P95.	
Salinity 0/00	P480.	
Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31616. ☐ MF P31613.

☐ Fecal Strept MPN /100 ml P31677.

☐ Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC.%			
BOD			

☐ BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ D.C.B.	PPM	P	2.0	L
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission
Part 4 (Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

WATER ANALYSIS

30

BACT. LAB NO.	
DATE REC'D.	
BOTTLE NO.	C-28452
DATE REC'D.	
STORET ENT. READ	

MUNICIPALITY: South Amboy	COUNTY: Middlesex	STREAM: —
FACILITY: Gil Custom Co.	LOCATION: Raritan Kill Industrial Park	
REPRESENTATIVE: [illegible]	TITLE: Officer man	COLL NAME: Specht / Tomasielli
REMARKS: Grab Sample from sediment of underground drainage tank [illegible] gal capacity		

STATION IDENTIFICATION NUMBER: SC, [illegible],

YR. MO. DAY: 810629

HOUR: 1215,

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity 0/00	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total [illegible]	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml	☐ MPN P31615, ☐ MF P31613,	
☐ Fecal Strept MPN /100 ml	P31677,	
☐ Tot coli MPN /100 ml	P31505,	

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
BOD			

☐ BOD	☐ 5-DAY P310, ☐ 6-DAY P312,	

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB	PPM	P	.60	H
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmission)
Part 4 (Yellow) - Bacteriology Copy

Form VST-010
8/79

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

WATER ANALYSIS

MUNICIPALITY: South Amboy	COUNTY: Middlesex	STREAM: —
FACILITY: Ted Park	LOCATION: 1150 State St	
REPRESENTATIVE: Schaefer	TITLE: —	COLL NAME: Specht / Tomasello
REMARKS: Grab Sample from Sewer line catch basin 15' off c/l Corner of st inlet on Boiler Room side		

BACT. LAB NO. ____
DATE REC'D. ____
BOTTLE NO. C-2885C
DATE REC'D. ____
STORET ENT. ____
READ ____

STATION IDENTIFICATION NUMBER: SC

YR. MO. DAY: 81 06 25

HOUR: 1450

FIELD ANALYSIS

☐ Water Temp °C	P10,	
☐ D.O.-Winkler	P300,	
☐ D.O.-Probe	P299,	
☐ pH (Field)	P400,	
☐ Sample Depth-ft.	P3,	
☐ Gage Height-ft.	P65,	
☐ Spec. Cond. @ 25°C	P95,	
☐ Salinity ‰	P480,	
☐ Tide Stage	P70211,	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615, ☐ MF P31613, ____

☐ Fecal Strept MPN /100 ml P31677, ____

☐ Tot coli MPN /100 ml P31505, ____

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) ____ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
BOD			

☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312, ____

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS
☒ DCB	ppb	P	30.0	K
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review ____

Part 1(White) - Water Quality Inventory Copy
Part 2(Green) - Chemistry Copy
Part 3(Pink) - Water Resources Copy(For Transmission
Part 4(Yellow) - Bacteriology Copy

44

Form VST-010
8/79

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

STATE OF NEW JERSEY
Department of Environmental Protection
Division of Water Resources

WATER ANALYSIS

MUNICIPALITY: Perth Amboy	COUNTY: Middlesex	STREAM: Ditch to Arthur Kill	BACT. LAB NO.
FACILITY: Amboy J.A.	LOCATION: Ditch - Upstream to Arthur Kill Tide Gate		DATE REC'D.
REPRESENTATIVE: —	TITLE: —	COLL NAME: [illegible]	BOTTLE NO. C-[illegible]
REMARKS: Grab Sample from ditch leading to Arthur Kill Adjacent to Arthur Kill Tide Gate [illegible]			DATE REC'D.
			STORET ENT. / READ

STATION IDENTIFICATION NUMBER: SC. YR. MO. DAY: 810413 HOUR: 0740

FIELD ANALYSIS

☐ Water Temp °C	P10.	
☐ D.O.-Winkler	P300.	
☐ D.O.-Probe	P299.	
☐ pH (Field)	P400.	
☐ Sample Depth-ft.	P3.	
☐ Gage Height-ft.	P65.	
☐ Spec. Cond. @ 25°C	P95.	
☐ Salinity ‰	P480.	
☐ Tide Stage	P70211.	

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform / Total Coliform	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Streptococci	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

Fecal coli /100 ml ☐ MPN P31615. ☐ MF P31613.

☐ Fecal Strept MPN /100 ml P31677.

☐ Tot coli MPN /100 ml P31505.

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (lab.) _____ SAMPLE

SEED YES ☐ NO ☐

CONC. %			
BOD			

☐ BOD ☐ 5-DAY P310. ☐ 6-DAY P312.

ANALYSIS	UNITS	PARAMETER	VALUE	RMKS.
☒ PCB's	ppb	P	2	+
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		
☐		P		

CHAIN OF CUSTODY

DATE	TIME	FROM (NAME)	TO (NAME)

Chemist Review _____

Part 1 (White) - Water Quality Inventory Copy
Part 2 (Green) - Chemistry Copy
Part 3 (Pink) - Water Resources Copy (For Transmis
Part 4 (Yellow) - Bacteriology Copy

ATTACHMENT "A"

TE	DATE	SAMPLE #	READING	AROCHLOR PCB TYPE	REMARKS
A	5/6/81	C-29006	17.12 PPM	1248	State St. P.S.
B	5/6/81	C-29007	1 PPB	1260	Amboy Ave. P.S.
C	5/6/81	C-29008	3.2 PPM	1260	Sheridon St. Div. Chamber
D-1	5/6/81	C-29009	205.00 PPM	1260	Front St. P.S.
D-2	5/27/81	C-12406	94.54 PPM	1260	Front St. P.S.
E	5/6/81	C-29010	100.00 PPB	1260	M. H. on Second St.
F-1	5/12/81	C-29011	35.00 PPM	1260	Vacum Filters
F-2	5/27/81	C-12407	16.63 PPM	1260	Vacum Filters
G	5/12/81	C-29012	112.5 PPB	1260	by Chesebrough Ponds
H	5/12/81	C-29013	100.00 PPB	1260	by Celutex
I	5/12/81	C-29014	100.00 PPB	1260	by Murtel
J	5/12/81	C-29016	116.00 PPB	1260	Leachate from Sludge Pile
K	5/27/81	C-12408	650.00 PPB	1248	M. H. on State St.
L	5/27/81	C-12409	80,560.00 PPM	1260	M. H. Int. of Front & Wash:
M	5/27/81	C-12410	37.90 PPM	1260	M. H. on Fayette St.
N	6/11/81	C-12416	1 PPM	1260	M. H. of Div. & Board
O	6/11/81	C-12417	1 PPM	1260	M. H. of Div. & Board
P	6/11/81	C-12418	341.26 PPM		M. H. of Commerce & Front
Q	6/2/81	C-12414	618 PPB	1260	M. H. by Alpha Assoc. on Amboy Ave.
R	6/2/81	C-12415	178 PPM	1248	Chamber next s pump Sta. i Arthur Kill Ind. Park
S	6/2/81	C-12411	K 300 PPb	—	Outlet end of drain pipe t Spa Spring Creek - Amboy
T	6/2/81	C-12413	245. PPM	1248	M. H. in sidewalk corner o Amboy & Thomas
U	6/22/81	C-12419	100 PPM	1260	PBC sample from vacuum filter at P.S.A.
V	6/22/81	C-12420	7.8 PPM	1260	M.H. center rear of Duanc Marine Prop.
W	6/23/81	C-12421	19.3 PPM	1260	Duane Marine Property - 28' high storage tank
X	6/23/81	C-12422		1260	Arthur Kill Ind. Park - 18' x 24' underground storage tank
Y	6/23/81	C-12423	6.62 PPM	1260	Arthur Kill Industrial Par oil tank #3 at Oil System (reprocessed oil tank)
Z	6/23/81	C-12424	< 2 PPM	1260	Arthur Kill Industrial Par 55 gallon drum on Oil Sys Company sediment sample f processing section
AA	6/26/81	C-28884	615.5 PPM	1254	Arthur Kill Industrial Par rear outlet valve of red trailer (Heil) serial #REV-5-65; owner, Marine Systems Company
BB	6/26/81	C-28885	K 3 PPM	1254	Arthur Kill Industrial Par sediment sample from top cover of white colored t trailer license plate #XMC 384; owner, Marine Systems

SITE	DATE	SAMPLE #	READING	AROCHLOR PCB TYPE	REMARKS
CC	6/26/81	C-28886	K 30 ppm	1254	Arthur Kill Industrial Park spill over sediment fr waste oil storag tank #12 prior t processing secti of plant; owner, Oil Systems Co.
DD	6/26/81	C-28887	K 3 ppm	1254	Arthur Kill Industrial Park - gre colored International tank trailer # C-5182 [illegible]; owner, Mar Systems Company
EE	6/26/81	C-28888	K 100 ppm	1260	Arthur Kill Industrial Park - 55 drum in 1966 gre colored Chevy Ba Truck license pl #XVU-54N; owner, Marine Systems C
FF	6/26/81	C-28889	28.9 ppm	1260	Arthur Kill Industrial Park - blue an orange tank truc "Gulf Solar Heat," "Frank Taibit & S painted on truck owner unknown
GG	6/29/81	C-28851	1,[illegible] ppm	1260	Intersection of Washington & Fron St. Grab sample f M.H. (Washington section only)
HH	6/29/81	C-28852	<6 ppm		Arthur Kill Industrial Park sedime sample from 28,00 gal. underground waste oil tank; c Oil Systems Co.
II	6/29/81	C-28853	<10 ppm		Arthur Kill Industrial Park sedime sample from blue colored trailer #T-121, owner, Ma Systems

JJ	6/29/81	C-28854	53.0 ppm	Arthur Kill Industrial Park se ment sample from silver colc tank trailer - license plate #TD-231Y, owner, Oil Systems
KK	6/29/81	C-28855	< 3PPM	Arthur Kill Industrial Park se ment sample from sewer catch basin 30' off N/E corner of building occupied by a weldi Company
LL	6/29/81	C-28856	<30 PPM	Arthur Kill Industrial Park se ment sample from sewer catch basin, 15' off S/E corner of Oil Systems' boiler room blc
MM	6/30/81	C-41416		From vacuum filter at Perth A STP
NN	6/30/81	C-41417		Wet well of Front Street Pump Station
OO	6/25/81	C-27028		Composite sample of sludge pi at treatment plants (PCB an metals)
PP	6/25/81	C-27029		Grab sample from vacuum filt (PCB and metals)
Q	6/25/81	C-27030		Composite sample of sludge o trucks (PCB and metals)
RR	6/25/81	C-27031		V.O. scan of sludge piles on ground at treatment plant (composite sample)
SS	6/25/81	C-27032		V.O. scan from vacuum filter at treatment plant
TT	6/25/81	C-27033		V.O. scan of sludge on truck at treatment plant (compos sample)
UU	[illegible]	[illegible]	53.5 PPM	Vacuum [illegible]
VV	7/7/81	C-26841	66. 24 PPM 1266 wet	
			302.12 PPM 1266 Dry	vacuum Filter
WW	7/7/81 ~~[illegible]~~	C-26842 ~~[illegible]~~	Discarded	wet + Dry analysis taken from C-26841

SITE	DATE	SAMPLE #	READING	AROCHLOR PCB TYPE	REMARKS
XX	7/13/81	C-26843			Sludge sample from vacuum filter for wet analysis
YY	7/13/81	C-26844			Sludge sample from vacuum filter for dry analysis
ZZ	7/13/81	C-26845			Sediment sample from wet well of Front St. station - dry analysis
1.	7/13/81	C-26846			Sediment sample from wet well of Front St. station - wet analysis
2.	7/13/81	C-26847			Sediment sample from wet well of State St. station - wet analysis
3.	7/13/81	C-26848			Sediment sample from wet well of State St. station - dry analysis
4.	7/23/81	C-28864			Sediment sample from outfall pip in Arthur Kill end of Commerce S
5.	7/23/81	C-28865			Treatment plant vacuum filter
6.	7/23/81	C-28866			Sediment sample wet well State St. pump station
7.	7/23/81	C-28867			Sediment sample wet well Front St. pump station
8.	7/30/81	C-28869			Vacuum filter
9.	7/30/81	C-28870			Vacuum filter
10.	7/30/81	C-28871			Front St. pump station wet well
11.	7/30/81	C-28872			Front St. pump station wet well
12.	7/30/81	C-28873			Sediment sample from interceptor side of sewer manhole corner of Washington & Front St.
13.	7/30/81	C-26849			Liquid sample of tank truck "World Wide Pollution Control" in Arthur Kill industrial park
14.	7/30/81	C-26850			Liquid sample from 250,000 gal. tank in Arthur Kill industrial park
15.	7/30/81	C-28875			Sediment sample from floor drain inside old Duane Marine bldg. on Summer Ave.
16.	8/3/81	C-28891			Grab sample from second manhole on Chevron Oil Co. property downstream of Witco Chemical

SITE	DATE	SAMPLE #	READING	AROCHLOR PCB TYPE	REMARKS
17.	8/3/81	C-28892			Grab sample from second manhole on Chevron Oil Co. property down stream of Witco Chemical
18.	8/3/81	C-28893			Grab sample of sediment from lift station in Witco Chemical polyester processing section
19.	8/3/81	C-28894			Grab sample of sediment from lift station in Witco Chemical hi-temp. processing section
20.	8/3/81	C-28895			Grab sample of sediment from lift station in Witco Chemical polyester & surfactant processi section
21.	8/3/81	C-28896			Grab sample of soil from pit south of Arthur Kill industrial park located on Outerbridge Terminal Co. property
22.	8/3/81	C-28897			Grab sample of soil from pit south of Arthur Kill industrial park located on Outerbridge Terminal Co. property
23.	8/5/81	C-27034			Sludge sample from vacuum filte
24.	8/5/81	C-27035			Sediment sample from wet well at Front St. station
25.	8/5/81	C-27036			Sediment sample from wet well State St. station
26.	8/5/81	C-27037			Sediment sample from lift stati near entrance gate of Witco Chemical
27.	8/11/81	C-21901			Sediment sample from intercept sewer manhole on High St. in f of #500 High St.
28.	8/11/81	C-21902			Sediment sample from intercept sewer manhole on High St. in f of #500 High St.

EPA Notification of Hazardous Waste Site

United States Environmental Protection Agency Washington DC 20460

This notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

8/0609 NJS 000 01 217

Person Required to Notify:
Enter the name and address of the person or organization required to notify.

Name: NL Industries, Inc.
Street: P. O. Box 1090 (Wyckoff Mills Road)
City: Hightstown State: NJ Zip Code: 08520

Site Location:
Enter the common name (if known) and actual location of the site.

Name of Site: NL INDUSTRIES, INC. - Perth Amboy Plant
Street: 1050 E. State Street
City: Perth Amboy County: ~~Union~~ MIDDLESEX State: NJ Zip Code: 08861

NJD054120860

C Person to Contact:
Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title): -Baser, F. R., Dir. Environmental Control
-Rodman, H. G., Environmental Engineer
Phone: 609/443-2411 or 2410

D Dates of Waste Handling:
Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year): To (Year): 1976

E Waste Type: Choose the option you prefer to complete

Option I: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste:
Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

1. ☐ Organics
2. ☒ Inorganics
3. ☐ Solvents
4. ☐ Pesticides
5. ☒ Heavy metals
6. ☐ Acids
7. ☐ Bases
8. ☐ PCBs
9. ☐ Mixed Municipal Waste
10. ☐ Unknown
11. ☒ Other (Specify)

(Slag) 300

Source of Waste:
Place an X in the appropriate boxes.

1. ☐ Mining
2. ☐ Construction
3. ☐ Textiles
4. ☐ Fertilizer
5. ☐ Paper/Printing
6. ☐ Leather Tanning
7. ☐ Iron/Steel Foundry
8. ☒ Chemical, General
9. ☐ Plating/Polishing
10. ☐ Military/Ammunition
11. ☐ Electrical Conductors
12. ☐ Transformers
13. ☐ Utility Companies
14. ☐ Sanitary/Refuse
15. ☐ Photofinish
16. ☐ Lab./Hospital
17. ☐ Unknown
18. ☒ Other (Specify)

(Secondary lead smelter) 400

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste:
EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

Form Approved
OMB No. 2060-0138

Notification of Hazardous Waste Site — **Side Two**

F Waste Quantity

Place an X in the appropriate boxes to indicate the facility types found at the site.

In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Facility Type

1. ☐ Piles
2. ☐ Land Treatment
3. ☒ Landfill
4. ☐ Tanks
5. ☐ Impoundment
6. ☐ Underground Injection
7. ☐ Drums, Above Ground
8. ☐ Drums, Below Ground
9. ☒ Other (Specify) _____

Total Facility Waste Amount

cubic feet: ~~UNKNOWN~~

gallons: _____

Total Facility Area

square feet: ~~UNKNOWN~~

acres: _____

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

☐ Known ☒ Suspected ☐ Likely ☐ None

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

(Slag and battery casings from sec. lead smelter operations disposed of on site.)

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name: F. R. Baser

Street: _____

City: _____ State: _____ Zip Code: _____

Signature: F. R. Baser Date: 6/8/81

☐ Owner, Present
☒ Owner, Past
☐ Transporter
☐ Operator, Present
☒ Operator, Past
☐ Other

[FR Doc. 81-11200 Filed 4-14-81; 8:45 am]
BILLING CODE 6560-29-C

EPA

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION

REGION	SITE NUMBER
2	NJ 000010190

NOTE: The initial identification of a potential site or incident should not be interpreted as a finding of illegal activity or confirmation that an actual health or environmental threat exists. All identified sites will be assessed under the EPA's Hazardous Waste Site Enforcement and Response System to determine if a hazardous waste problem actually exists.

A. SITE NAME	B. STREET (or other identifier)		
ARTHUR KILL INDUSTRIAL PARK	STATE ST		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
PERTH AMBOY	NJ		MIDDLESEX

G. OWNER/OPERATOR (if known)

1. NAME

2. TELEPHONE NUMBER

H. TYPE OF OWNERSHIP (if known)

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☐ 5. PRIVATE ☐ 6. UNKNOWN

I. SITE DESCRIPTION

J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.)

STATE LIST

K. DATE IDENTIFIED (mo., day, & yr.)

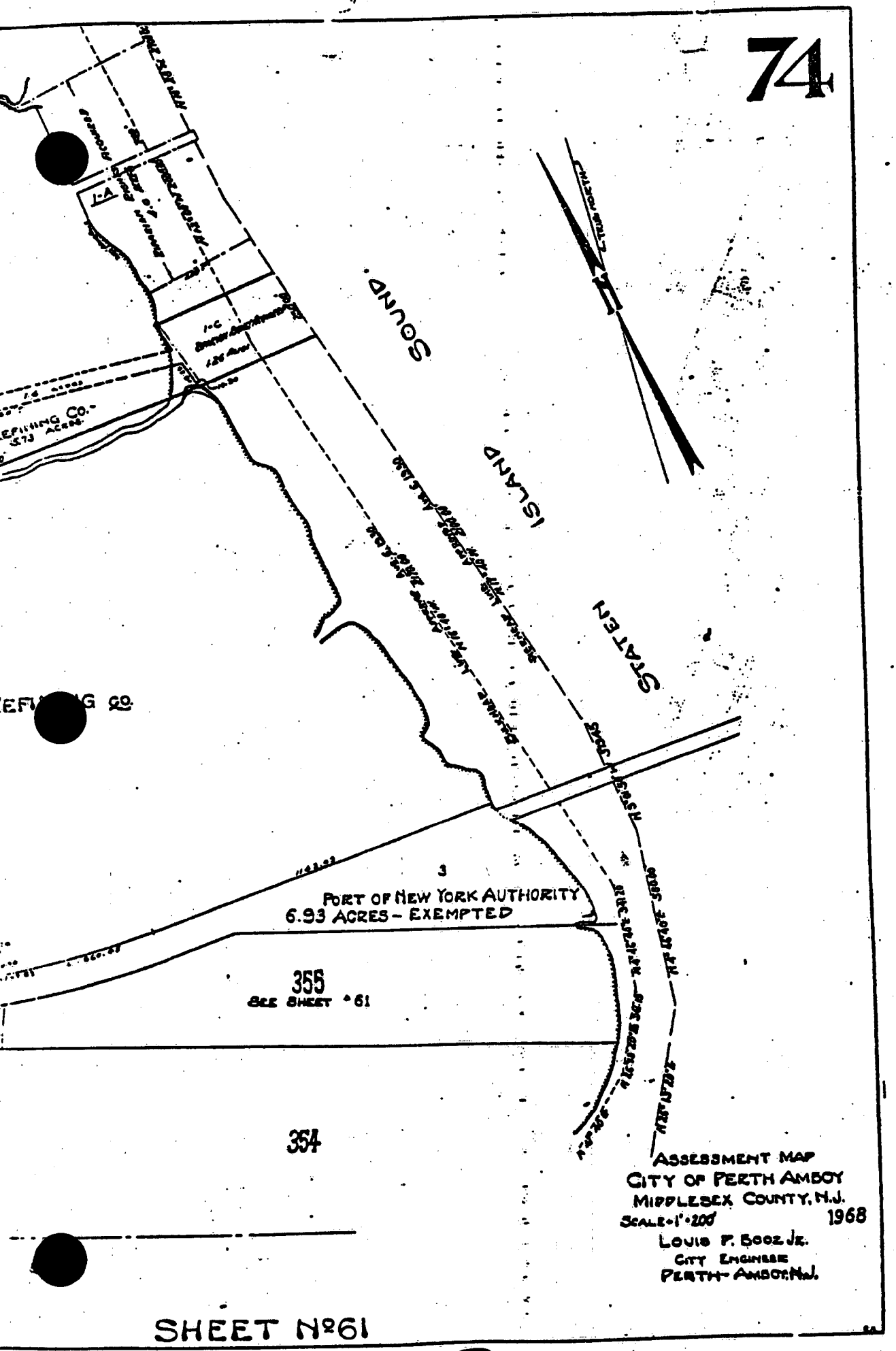
5/7/81

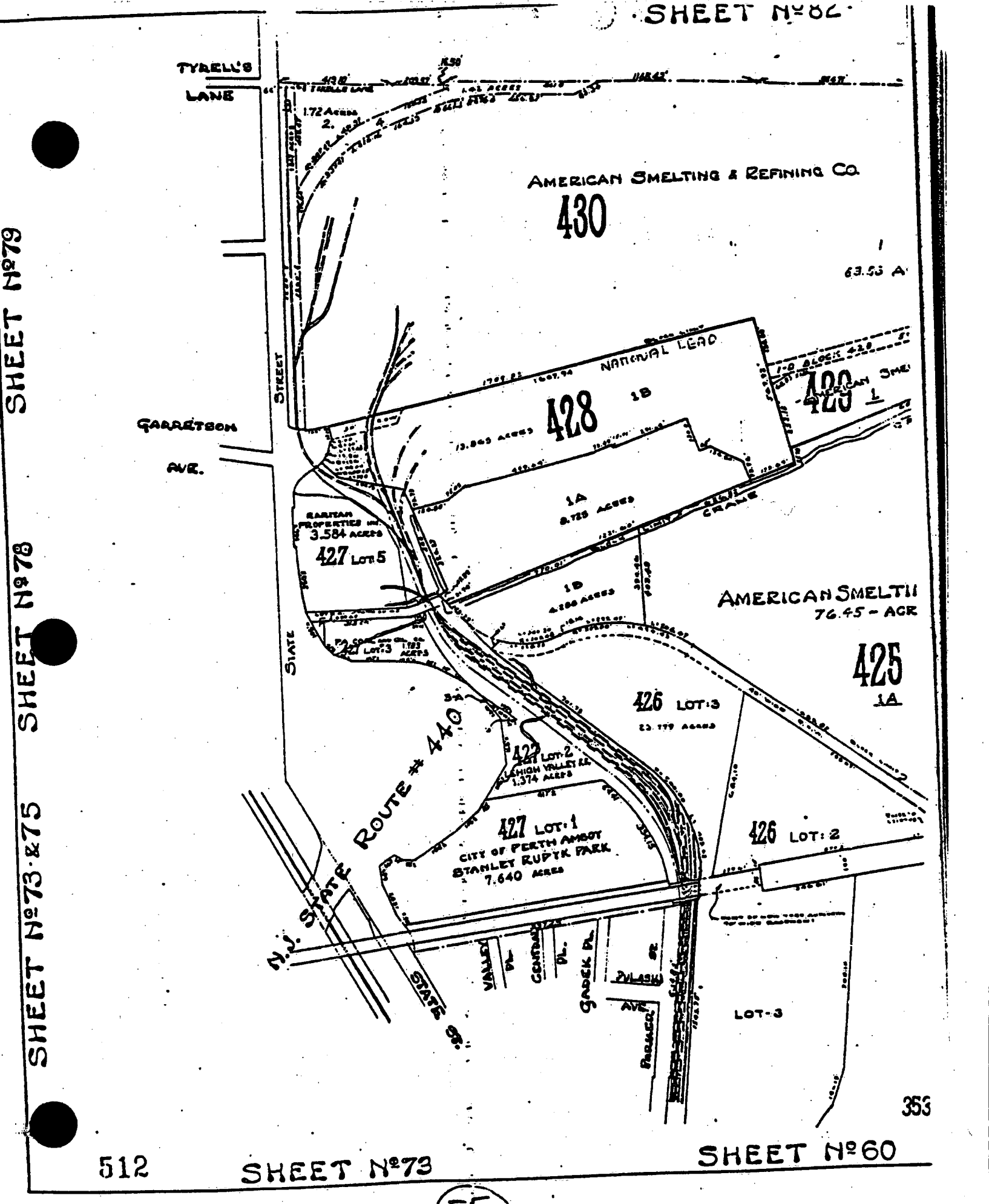
L. SUMMARY OF POTENTIAL OR KNOWN PROBLEM

M. PREPARER INFORMATION

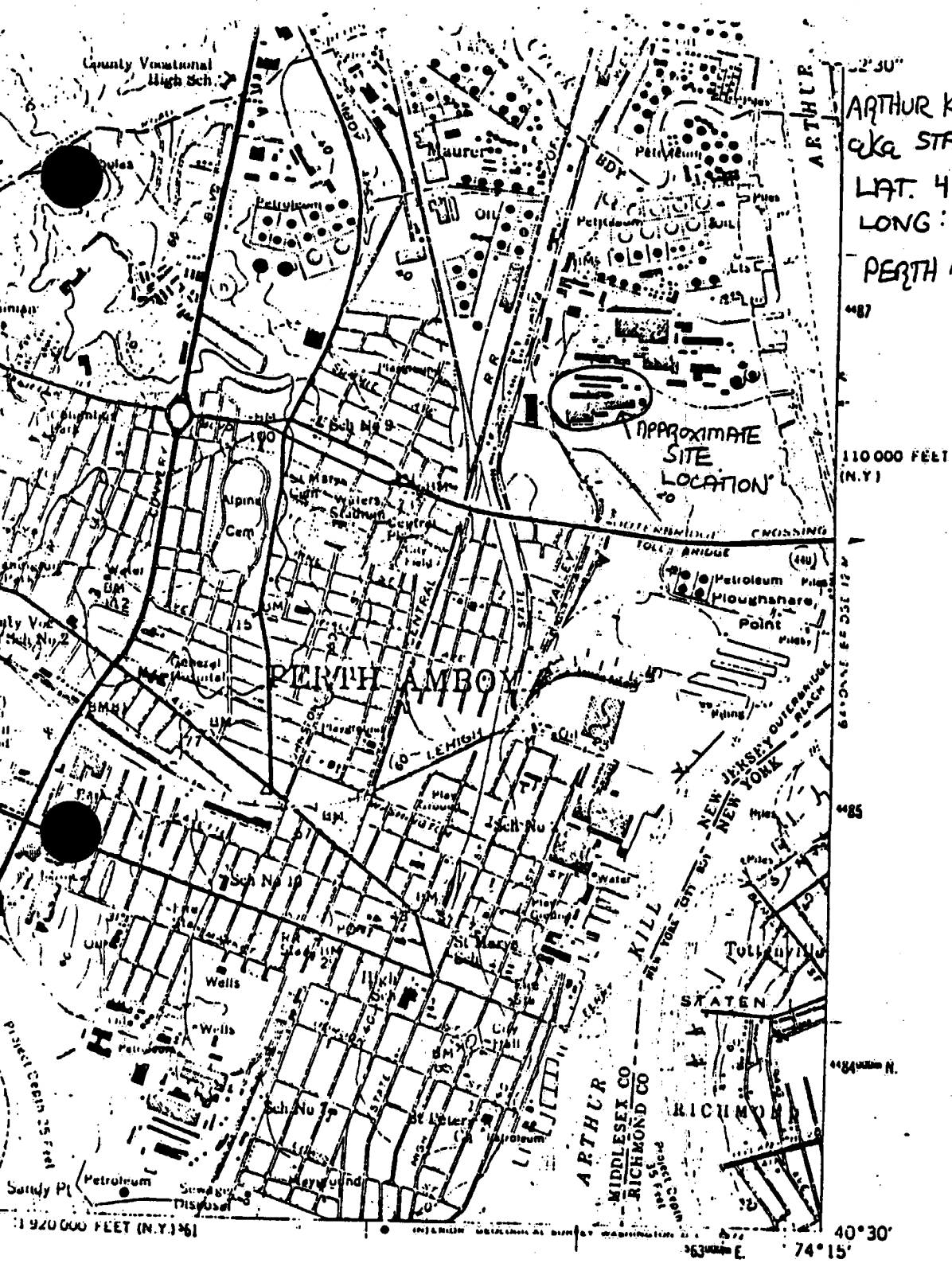
1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
KARL MANGELS	264-1573	5/9/81

EPA Form 2070-8 (5-80)


74
SOUND
ISLAND
STATEN
PORT OF NEW YORK AUTHORITY
6.93 ACRES - EXEMPTED
3
355
SEE SHEET #61
354
ASSESSMENT MAP
CITY OF PERTH AMBOY
MIDDLESEX COUNTY, N.J.
SCALE-1"-200'
1968
LOUIS F. BOOZ JR.
CITY ENGINEER
PERTH AMBOY, N.J.
SHEET Nº61


TYRELL'S LANE
GARRETSON AVE.
STATE STREET
AMERICAN SMELTING & REFINING CO.
430
63.53 A
NATIONAL LEAD
428
1B
1A
8.725 ACRES
429
1
STATE CRANE
RARITAN PROPERTIES INC.
3.584 ACRES
427 LOT 5
1D
4.288 ACRES
AMERICAN SMELTI
76.45 - ACR
425
1A
426 LOT 3
23.779 ACRES
427 LOT 2
LEHIGH VALLEY R.R.
1.374 ACRES
427 LOT 1
CITY OF PERTH AMBOY
STANLEY RUPTK PARK
7.640 ACRES
426 LOT 2
ROUTE # 440
N.J. STATE
STATE ST.
VALLEY PL.
CENTRAL PL.
GADEK PL.
PULASKI AVE
PROLACK ST.
LOT-3
SHEET Nº 79
SHEET Nº 78
SHEET Nº 73 & 75

ARTHUR KILL INDUSTRIAL PK.
a/k/a STATE ST. INDUST. PK.
LAT. 40° 31' 47"
LONG: 74° 30' 41"
PERTH AMBOY QUAD.



ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

U.S. Route — State Route

Interstate Route

QUADRANGLE LOCATION

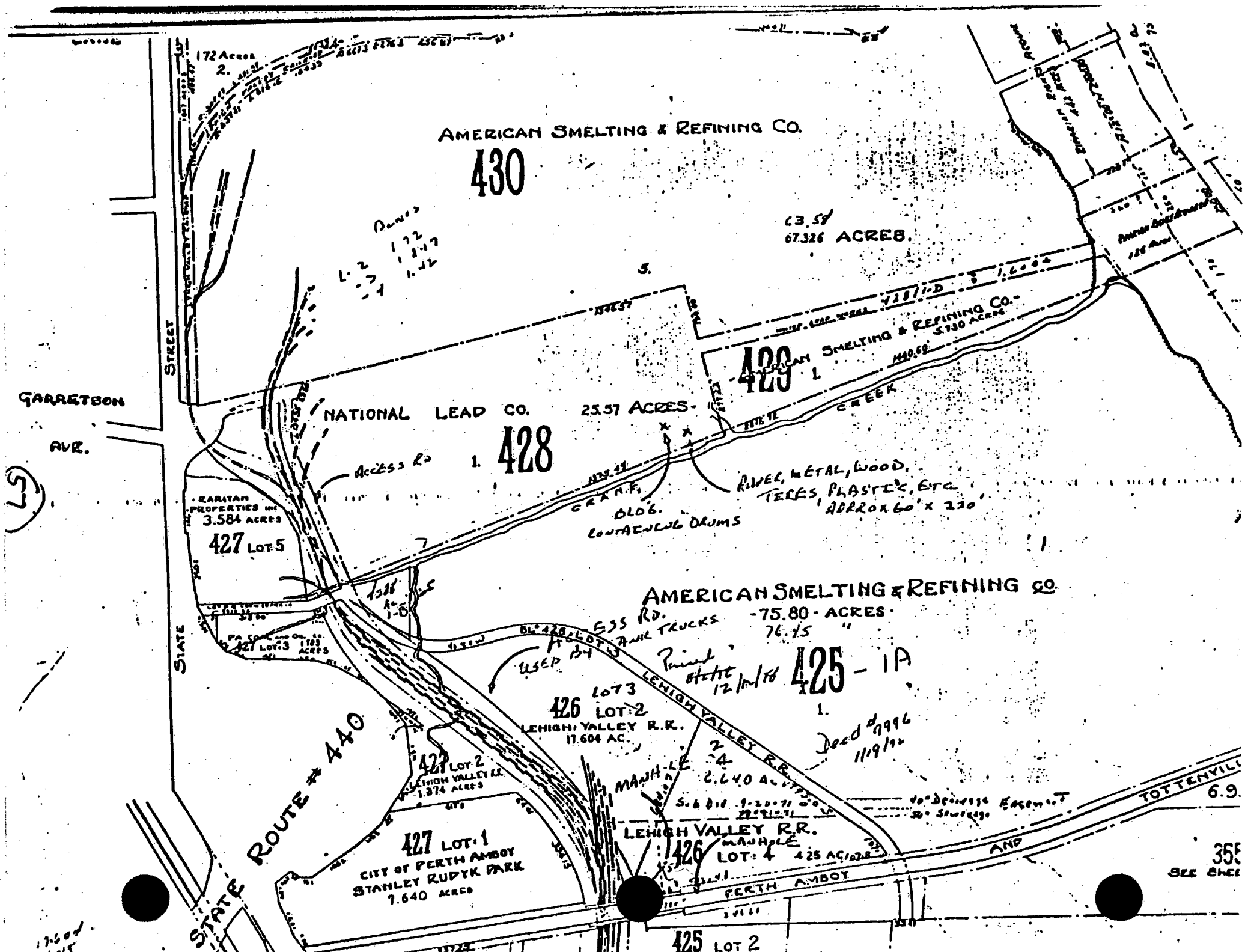
PERTH AMBOY, N. J.—N. Y.

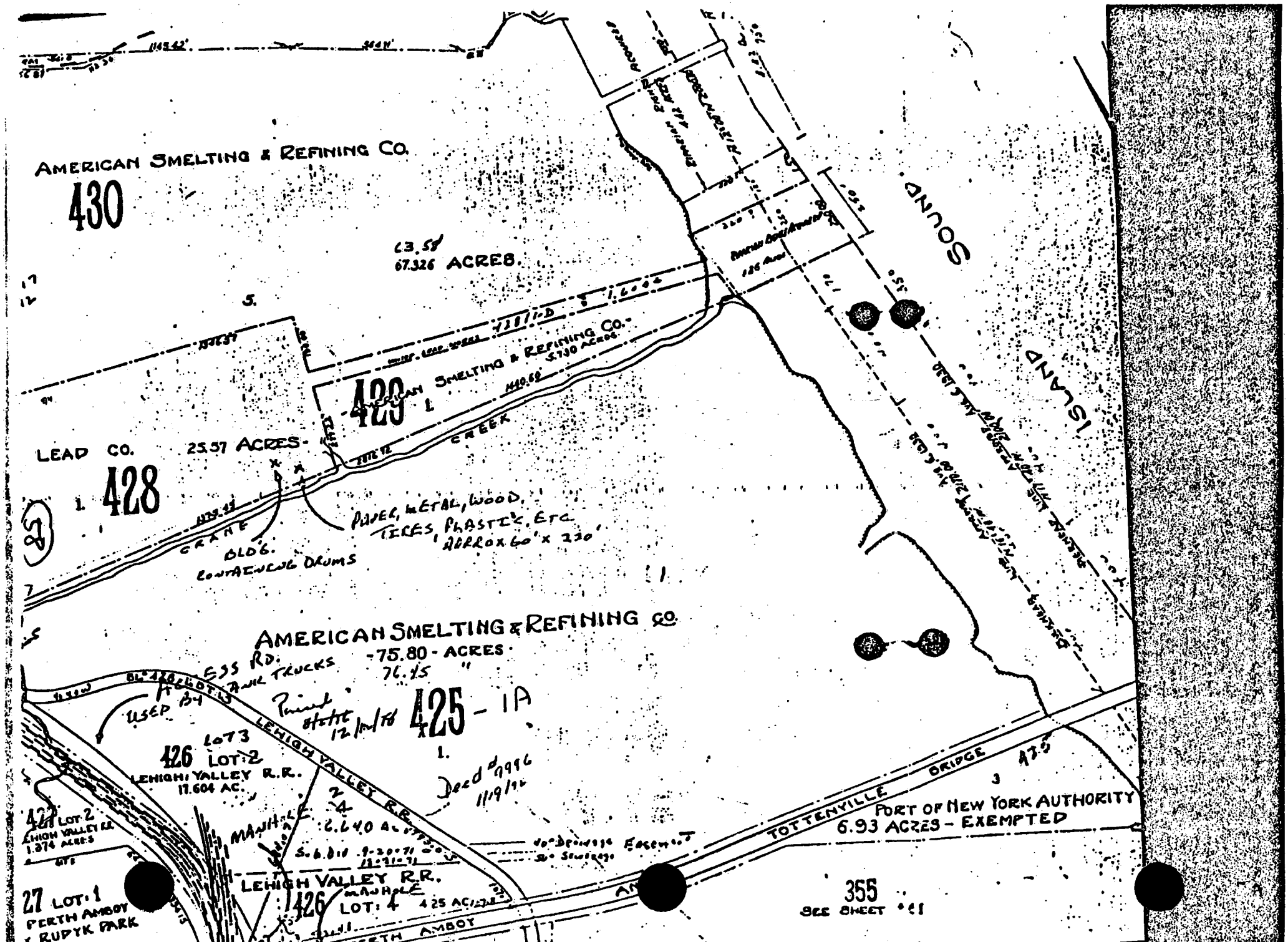
N4030—W/415/7.5

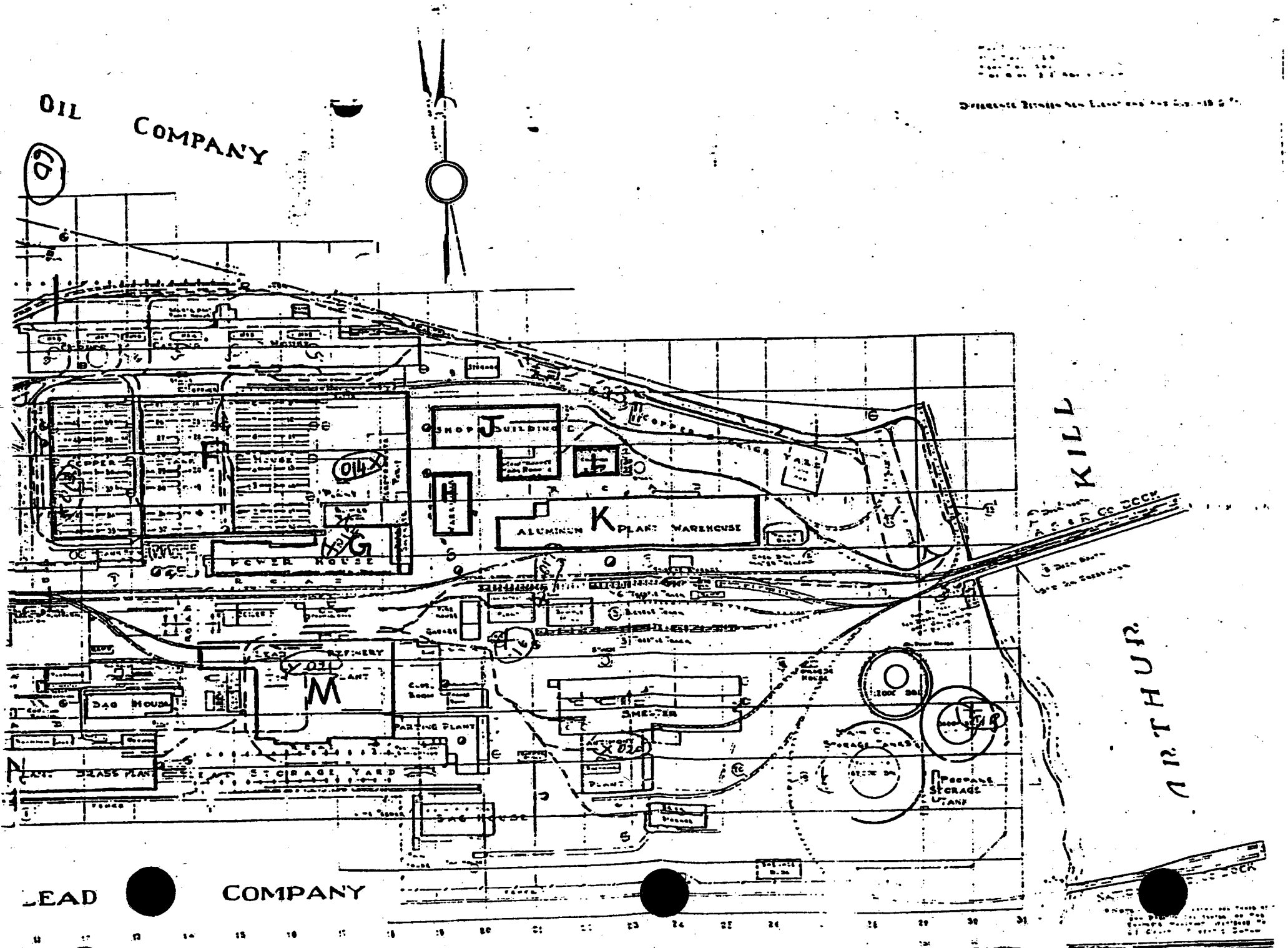
1956

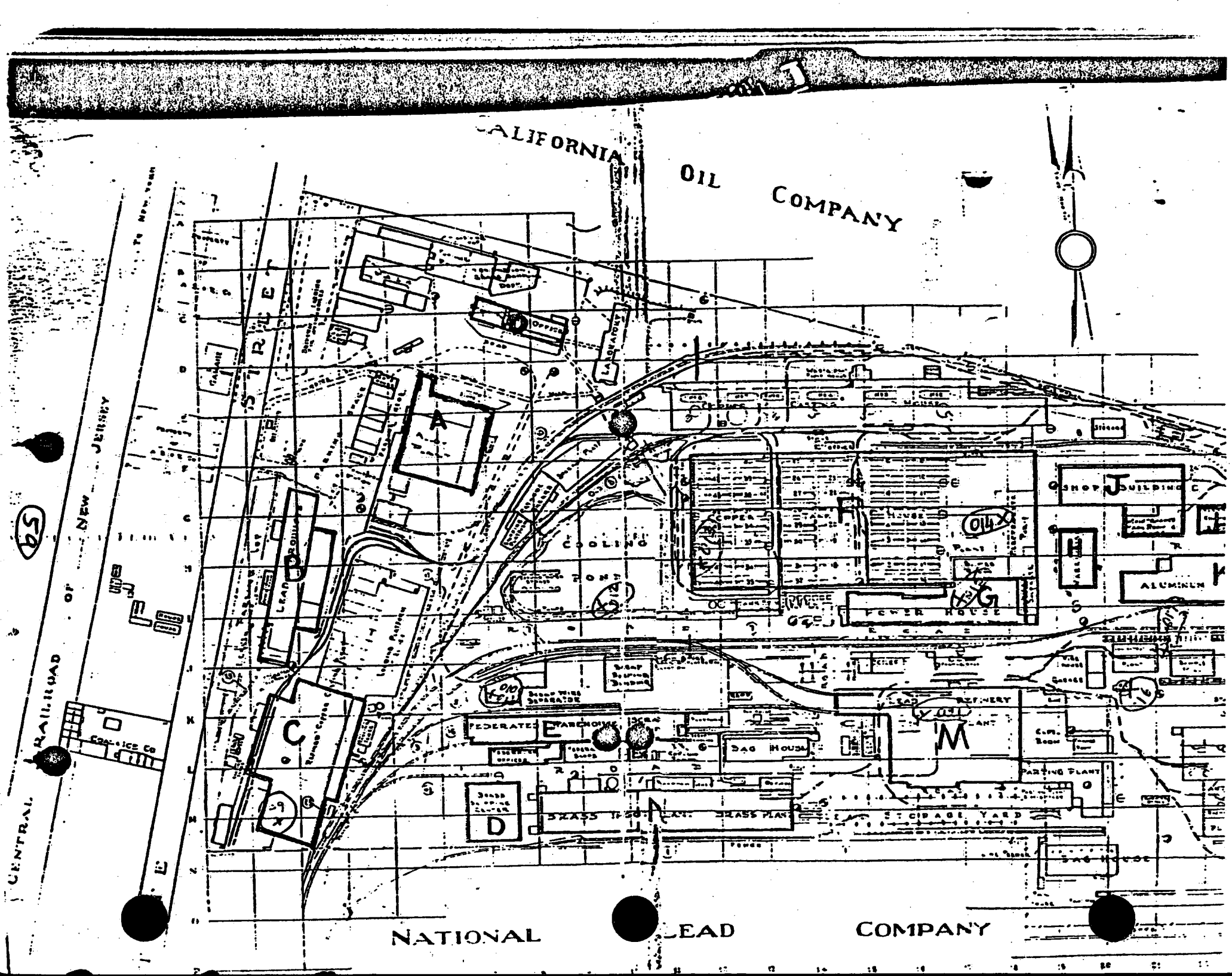
PHOTOREVISED 1970

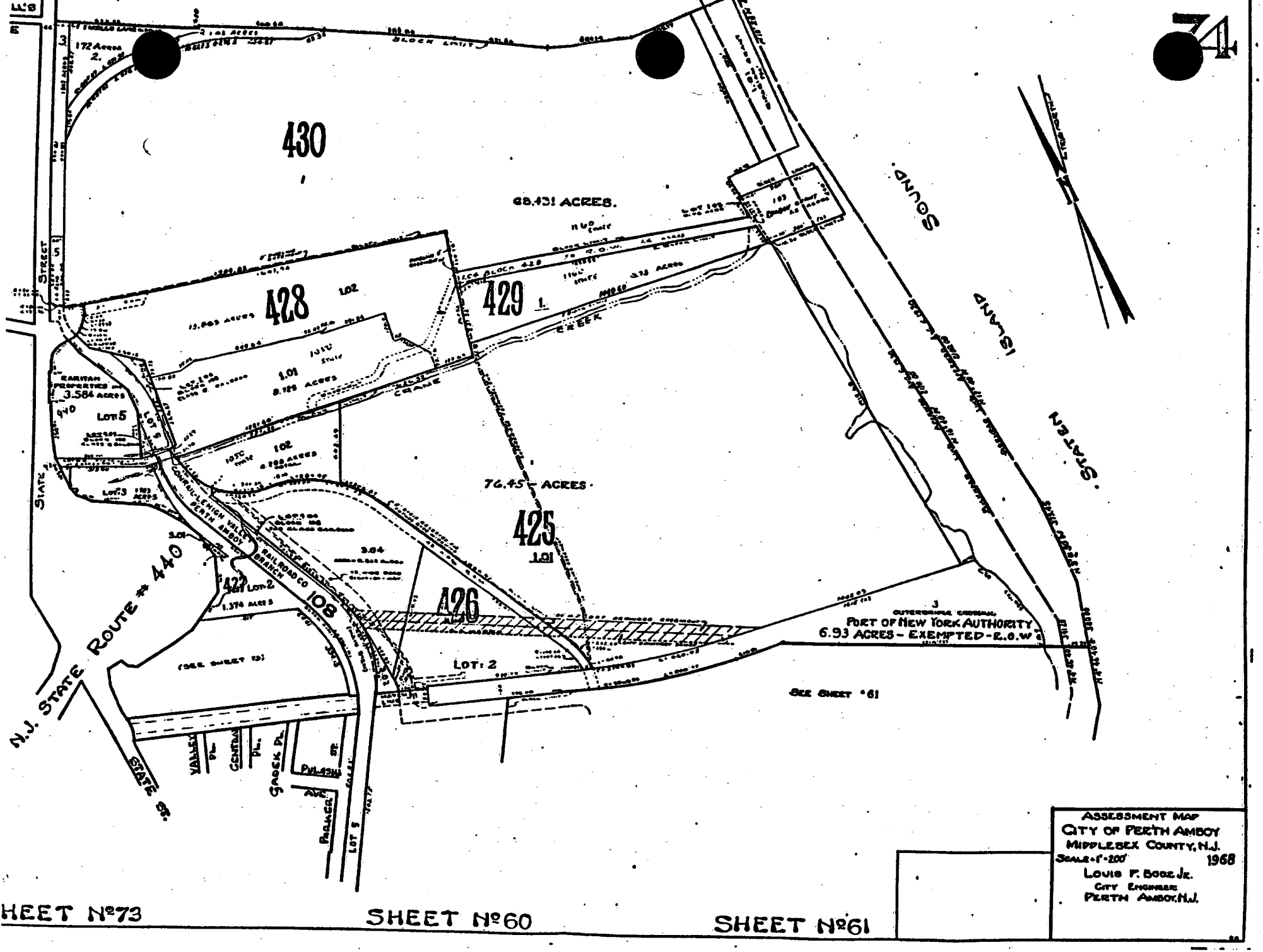
AMS 6185 III SE—SERIES V822


AMERICAN SMELTING & REFINING CO.
430
63.58
67.326 ACRES.
429
AMERICAN SMELTING & REFINING CO.
5.730 ACRES
NATIONAL LEAD CO.
25.57 ACRES
428
GARRETSON
AVE.
STREET
STATE
Access Rd
RARITAN PROPERTIES INC
3.584 ACRES
427 LOT 5
CREEK
OLD 6. CONTAINING DRUMS
RIVER, METAL, WOOD, TIRES, PLASTIC, ETC
APPROX 60' x 220'
AMERICAN SMELTING & REFINING CO.
-75.80- ACRES
76.45
425 - 1A
LEHIGH VALLEY R.R.
426 LOT 2
LEHIGH VALLEY R.R.
17.604 AC.
427 LOT 2
LEHIGH VALLEY R.R.
1.374 ACRES
427 LOT: 1
CITY OF PERTH AMBOY
STANLEY RUDYK PARK
7.640 ACRES
STATE ROUTE # 440
LEHIGH VALLEY R.R.
426 LOT: 4
425 LOT 2
PERTH AMBOY
AND
TOTTENVILLE
355
SEE SHEET


AMERICAN SMELTING & REFINING CO.
430
63.58
67.326 ACRES.
5.
429
AMERICAN SMELTING & REFINING CO.
5.730 ACRES
LEAD CO.
25.57 ACRES
428
CREEK
CRANE
OLD 6. CONTAINERS DRUMS
PAPER, METAL, WOOD, TIRES, PLASTIC, ETC
APPROX 60' x 220'
SOUND
ISLAND
AMERICAN SMELTING & REFINING CO.
-75.80 - ACRES
76.45
425 - 1A
USED BY
LEHIGH VALLEY R.R.
426 LOT 2
LEHIGH VALLEY R.R.
17.604 AC.
427 LOT 2
LEHIGH VALLEY R.R.
1.374 ACRES
27 LOT 1
PERTH AMBOY
RUDYK PARK
LEHIGH VALLEY R.R.
426
LOT: 4
425 AC
PERTH AMBOY
TOTTENVILLE BRIDGE
PORT OF NEW YORK AUTHORITY
6.93 ACRES - EXEMPTED
355
SEE SHEET


OIL COMPANY
SHOP BUILDING
J
ALUMINUM PLANT WAREHOUSE
K
POWER HOUSE
G
LEAD REFINERY PLANT
M
BAG HOUSE
SMELTER
PARTING PLANT
BRASS PLANT
STORAGE YARD
BAG HOUSE
PROPANE STORAGE TANK
KILL
ARTHUR
LEAD COMPANY


CALIFORNIA OIL COMPANY
NATIONAL LEAD COMPANY
CENTRAL RAILROAD OF NEW JERSEY
STREET
A
B
C
D
E
F
G
H
J
M
N
COOLING ZONE
POWER HOUSE
SHOP BUILDING
ALUMINUM
FEDERATED WAREHOUSE
BAG HOUSE
BRASS PLANT
STORAGE YARD
PARTING PLANT
LABORATORY
ICE CO


74
430
68.431 ACRES.
428
429
425
426
76.45 ACRES
CREEK
CRANE
STATEN ISLAND SOUND
PORT OF NEW YORK AUTHORITY
6.93 ACRES - EXEMPTED - R.O.W.
LOT: 2
SEE SHEET #61
CONRAIL-LEHIGH VALLEY
PERTH AMBOY
RAILROAD CO
BRANCH
108
N.J. STATE ROUTE # 440
STATE ST.
STATE
STREET
GADSEN PL.
PARKER
KARITAN PROPERTIES
3.584 ACRES
LOT 5
LOT 3
LOT 2
1.374 ACRES
(SEE SHEET 73)
ASSESSMENT MAP
CITY OF PERTH AMBOY
MIDDLESEX COUNTY, N.J.
SCALE: 1" = 200'
1968
LOUIS F. BOOZ JR.
CITY ENGINEER
PERTH AMBOY, N.J.
SHEET Nº73
SHEET Nº60
SHEET Nº61

REFERENCE NO. 4

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Arthur Kill Urban Industrial Park 02-A004-17 DATE: December 15, 1990

FROM: JOHN D. RIECKHOFF COPIES:

SUBJECT: PROPERTY OWNERSHIP

REFERENCE:

Easement agreement - CDS, NH, and Catherine Brown grantors (owners)
(4/15/83) of easement to Outerbridge Terminals listed on tax records
as 1.04 lot Block 428

Deed - United Lead conveys to National Lead both of 111 Broadway NYC, NY
(6/30/28) 12/26/1881 R.H. Sayre original owner of property
conveyed to Lehigh Valley RR of NJ later
divided between United Lead and American Smelting
and Refining Co. appears RH Sayre owned Blocks
425, 428, 429, 430 and lots therein.

Deed - NL Industries (National Lead) conveys deed to riparian
(8/3/81) rights (lots 1.04 + 1.05 on tax records) to
Custom Distribution Services

Deed - NL Industries conveys deed to Block 428 lots 1.01 and 1.02
(1/22/79) (A + B on tax records) to Arthur Kill Urban Industrial
Park.

Deed Sheriff sale document conveying deed to lots 1.01 +
1.02 to Custom Distribution Services.

NUS 443A 58 1182

(1)

protect

ROADWAY EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT ("Agreement") made this 15 day of APRIL, 1983, by and between

Grantor CUSTOM DISTRIBUTION SERVICES, INC., a New Jersey corporation, having offices at 1160 State Street, Perth Amboy, New Jersey ("CDS");

NEUBERNE H. BROWN, JR. and CATHERINE BROWN, his wife, having a business address at 1160 State Street, Perth Amboy, New Jersey ("Brown") (CDS and Brown are sometimes herein referred to as "Grantors"); and

Grantee OUTERBRIDGE TERMINAL, INC., a New Jersey corporation, having offices at 920 State Street, Perth Amboy, New Jersey 08862 ("Outerbridge") (Outerbridge is sometimes referred to herein as "Grantee").

W I T N E S S E T H:

WHEREAS, the parties hereto are the owners of certain lands and premises situate, lying and being in the City of Perth Amboy, County of Middlesex and State of New Jersey, which lands and premises are serviced by a 40-foot wide private access roadway ("Roadway") which affords ingress and egress to and from their respective properties and to and from State Street, a public road, by way of a jughandle known as the State Street Jughandle ("Jughandle") to which said 40-foot wide roadway connects; and

WHEREAS, Grantee has requested from Grantors an easement ("Roadway Easement") for access over that portion of the Roadway which crosses certain lands of the Grantors herein (Lots 1B and 1A in Block 428 on the Official Tax Map of the City of Perth Amboy owned by CDS and Lot 1B in Block 425 on said Tax Map owned by Brown), which lands lie between the lands and premises of the Grantee and the Jughandle, and Grantors have agreed to grant such Roadway Easement subject to the terms and

Easement Agreement 428/1-A + 1-B 425/1-B

Easement Agreement 428/1-A + 1-B 425/1-B

RAP:a
rev.3/9/83

Prepared by Nicholas L. Santaniello Esq.

(1A)

STATE OF NEW JERSEY:
:SS.:
COUNTY OF MIDDLESEX:

BE IT REMEMBERED, that on April 15, 1983 before me, the subscriber, personally appeared ROBERT E. DePOW, who, I am satisfied, is the person who signed the within Roadway Easement Agreement as President of Outerbridge Terminal, Inc., the corporation named therein and he thereupon acknowledged that the said Roadway Easement Agreement made by the corporation and sealed with its corporate seal, was signed, sealed with the corporate seal and delivered by him as such officer and is the voluntary act and deed of the corporation, made by virtue of authority from its Board of Directors.

Nicholas C. Santucci
An Attorney at Law of New Jersey

RECORDED
CLERK

03 APR 18 P2:24
BOOK 3282 PAGE 172

03888

Prepared by: _____
~~ROBERT A. PETITO~~
Attorney ~~at Law~~
~~State of New Jersey~~

R+R
Wilentz, Goldman & Spitzer
90 Woodbridge Center Dr.
Woodbridge, NJ
Attn: Nicholas C. Santucci, Esq.

555518-1992 000027

(2)

#6106

Deed

United Lead Co.

111 Broadway, NY

TO

National Lead Co.

~~111~~ 111 Broadway NY

return to: Alexander & Green, 120 Broadway, New York

DATED June 30, 1928

RECORDED Nov. 4, 1944

Conveys lands in the City ~~Borough Township~~ of Perth Amboy

Middlesex County, New Jersey

BEGINNING at a point in the division line between lands now or late of the American Smelting & Refining Co. and theparty of the first part, said point being S. 80° 12' E. 141.77 feet measured along saiddivision line, from a stone monument, which is the southwesterly corner of lands now or late of said American Smelting and Refining Co; thence (1) S. 80° 12' E. 2646.57 feet more or less to high water mark in Arthur Kill; thence (2) S. 11° 39' E. along said high water mark for 349.3 feet to a point, said point being N. 11° 39' W. 253.06 feet from the northerly side line produced of the former Lehigh Valley Creosoting Co's pier; thence (3) N. 87° 52' W. for 2816.12 feet more or less to a point, said point being 100 feet easterly, measured at right angles, from the center line of the track, as laid, leading to American Smelting & Refining Co's works; thence (4) N. 1° 22' E. and parallel with said track for 462.57 feet to a point of curve; thence (5) curving to the right with a radius of 259.26 feet still parallel with said track for 194.95 feet to a point of tangent; thence (6) N. 44° 36' E. for 69 feet to the place of Beginning. Containing 33.026 acres more or less

BEING a portion of the same premises conveyed to Lehigh RR Co of NJ by Robert H. Sayre by deed dated Dec. 26, 1881;

EXCEPTING from said premises so much thereof as was convey by the party of the first part to the American Smelting and Refining Co. bydeed dated August 8th, 1905.

BUT INCLUDING the premises reconveyed to said party of the first part by said American Smelting and Refining Co. by deed dated June 20, 1906

A true abstract from the above deed.

Dated Dec. 1, 1944

EDWARD J. PATTEN Clerk

(3)

1M—DEED—QUITCLAIM
IND. OR CORP.

COPYRIGHT ... ALL STATES ... CO.
... SHEFFIELD STREET, MORRISTOWN, N.J. 07960

This Deed, *made the* 3rd *day of* August *19* 81

Between NL INDUSTRIES, INC. (formerly known as National Lead Company) a corporation existing under and by virtue of the laws of the State of New Jersey

residing or located at 1230 Avenue of the Americas *in the* City *of* New York *in the County of* New York *and State of* New York *herein designated as the Grantors,*

And CUSTOM DISTRIBUTION SERVICES, INC. a corporation existing under and by virtue of the laws of the State of New Jersey

COUNTY OF MIDDLESEX
RECORDED
8-6-81

residing or located at 101 Fayette Street *in the* City *of* Perth Amboy *in the County of* Middlesex *and State of* New Jersey *herein designated as the Grantees;*

Witnesseth, *that the Grantors, for and in consideration of* Ten Dollars ($10)

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever,

All that certain *tract or parcel of land and premises, situate, lying and being in the* City *of* Perth Amboy *in the County of* Middlesex *and State of New Jersey, more particularly described as follows:*

BEGINNING at a point on high water mark along Arthur Kill, said point being 11° 39' E. ninety-nine and thirty one-hundredths (99-30/100) feet measured along high water mark from the original southeasterly corner of the American Smelting and Refining Company's land, the said southeasterly corner being a point situated S. 80° 12' E. seven hundred and eighty-eight and thirty-four one-hundredths (2,788-34/100) feet measured along the division line between the American Smelting and Refining Company's land and the United Lead Company's land from a stone monument which is the southwesterly corner of the lands of the American Smelting and Refining Company; and running thence (1) S. 11° 39' E. along said high water mark for two hundred and fifty (250) feet; thence (2) N. 87° 52' W. for ten and two hundred and ninety-six one-thousandths (10-296/1000) feet; thence (3) N. 11° 39' W. for two hundred and forty-seven and five hundred and forty-seven one-thousandths (247-547/1000) feet; thence (4) N. 78° 21' E. for ten (10) feet to the place of beginning. Containing five hundred and seventy-one ten-thousandths (571/10000) acres, more or less.

The within Deed is intended to convey all right, title and interest of the Grantor herein, if any, into the above 10' strip.

E-1 438

(34)

Deed

BOOK 3202 PAGE 363

TO

Dated 19

BOOK 3202 PAGE 366

RECORD, CHECK & RETURN TO: ( )

[illegible] SPITZER
A [illegible] CLINTON
[illegible] BOX 10
[illegible], N.J. 07095

(4)

COUNTY OF MIDDLESEX
CONSIDERATION 1,250,000.00
REALTY TRANSFER FEE 4375.00
DATE _____ BY _____

DEED

THIS INDENTURE, made the 22nd day of January, nineteen hundred and seventy nine.

BETWEEN NL INDUSTRIES, INC. (formerly known as NATIONAL LEAD COMPANY) a corporation duly organized and existing under and by virtue of the laws of the State of New Jersey having its principal office in the City, County and State of New York the grantor, and ARTHUR KILL URBAN INDUSTRIAL PARK, INC. a corporation duly organized and existing under and by virtue of the laws of the State of New Jersey having an office in the City of Perth Amboy, County of Middlesex, and State of New Jersey the grantee.

WITNESSETH, that the grantor, in consideration of One Million Two Hundred Fifty Thousand Dollars ($1,250,000) lawful money of the United States, and other good and valuable consideration receipt whereof is hereof acknowledged, does hereby grant and convey unto the grantee and the successors and assigns of the grantee, forever:

TRACT ONE:

ALL that certain tract or parcel of land and premises hereinafter particularly described, situate, lying and being in the CITY OF PERTH AMBOY, in the COUNTY OF MIDDLESEX, and STATE OF NEW JERSEY, bounded and described as follows:

BEGINNING at a point in the Northerly line of Lot 1-B in Block 428 said point being located 102.00 feet from the most Southwesterly corner of lands now or formerly of American Smelting and Refining Company, which corner is located 60 feet Easterly of and at right angles to State Street and from said BEGINNING point running thence;

1. South 88° 03' 19" East along said Northerly line of lands now or formerly of American Smelting and Refining Company, 1607.94 feet to a point and running thence;

2. South 1° 56' 41" West along the Westerly line of Lot 1 in Block 429, lands now or formerly of American Smelting and Refining Company, 567.92 feet to a point and running thence;

(4H)

1315

01184

DEED

RECEIVED & RECORDED
ESSEX COUNTY, N.J.

1979 JAN 30 PM 12 01

BOOK 3073 PAGE 840
FRANK SCHATZMAN, CLERK

BOOK 3073 PAGE 848

B & R to
Alfred Fiella
744 Broad St.
Suite 1502

(5)

COUNTY OF MIDDLESEX
CONSIDERATION
REAL ESTATE TRANSFER FEE
DATE 2-1-83 BY

To All Persons to Whom These Presents Shall Come,

OR WHOM THEY MAY CONCERN:

I, JOSEPH C. SPICUZZO, Sheriff of the County of Middlesex, in the State of New Jersey, SEND GREETING:

Whereas, On the 9th day of November in the year of our Lord one thousand nine hundred and eighty-two a certain writ of execution was issued out of the Superior Court of New Jersey, directed and delivered to me JOSEPH C. SPICUZZO then and still being Sheriff of the said County of Middlesex, and which said writ is in the words or to the effect following,

THAT IS TO SAY:

New Jersey, to wit:

The State of New Jersey to the Sheriff of the County of Middlesex, Greeting:

{L. S.}

Whereas, On the 9th day of November in the year of our Lord one thousand nine hundred and eighty-two by a certain judgment made in our Superior Court of New Jersey, at Trenton, in a certain action therein depending, wherein

Custom Distribution Services, Inc., a New Jersey Corporation,
PLAINTIFF

and

Arthur Kill Urban Industrial Park, Inc., New Jersey Economic Development Authority, United States of America, Dyer Insulations, De Long Corporation, Hammerhead Builders, Inc., R. Anderson Roofing Co. Inc., State of New Jersey, Haines Marine, Inc., B.K.M. Associates, The National State Bank, A & N, Inc., t/a Metuchen Glass Co., Inc., Modern Handling Equipment Co. of N.J., Dan's Heating & Air Conditioning, Inc., N L Industries, Public Service Electric & Gas Co., G S C Export Packing and Warehousing Inc., The City of Perth Amboy, a municipal corporation, J.E. Hurley Lumber Co., and T. Regan, Inc.
DEFENDANTS

428
1-A+1-B
+1-C

It was ordered and adjudged that certain mortgaged premises, with the appurtenances in the complaint in the said action particularly set forth and described, that is to say: TRACT ONE: All the following tract or parcel of land and premises hereinafter particularly described, situate, lying and being in the City of Perth Amboy, in the County of Middlesex, and State of New Jersey, bounded and described as follows:

BEGINNING at a point in the Northerly line of Lot 1-B in Block 428 said point being located 102.00 feet from the most Southwesterly

428
1-A, 1-B
+1-C

(over)

(5A

New Jersey, Middlesex County, ss:

JOSEPH C. SPICUZZO, Sheriff of the County aforesaid, do solemnly swear that the land and real estate described in this deed, made by me to Custom Distribution Services Inc., a New Jersey Corporation,

was by me sold by virtue of a good and subsisting execution as is therein recited, that the money ordered to be made has not been to my knowledge or belief, paid or satisfied; that the time and place of the sale of said land and real estate were by me duly advertised, as required by law; and that the same was cried off and sold to a bona fide purchaser for the best price that could be obtained.

JOSEPH C. SPICUZZO Sheriff

Sworn before me, an Attorney at Law of New Jersey, on this 26th day of January, in the year of our Lord one thousand nine hundred and eighty-three. And I having examined this DEED, do hereby approve the same, and order it to be recorded as a good and sufficient conveyance of the Land and Real Estate therein described.

Attorney at Law of N. J.

William F. McCloskey, Jr.

DEED

JOSEPH C. SPICUZZO

Sheriff

Middlesex County, N. J.

To: Custom Distribution Services Inc. A New Jersey Corporation P.O. Box 363 Perth Amboy, New Jersey

Consideration $ 100.00

Dated January 26, 1983.

Received in the Clerk's Office in the County of Middlesex, on the day of A. D. 19 at o'clock, in the noon, and recorded in Book of Deeds, page

CLERK.

RECORD, CHARGE & RETURN TO: WILENTZ, GOLDMAN & SPITZER 500 ROUTE 9 WOODBRIDGE, N. J. 07095

PREPARED BY: JOSEPH C. SPICUZZO, SHERIFF. BY: Kathryn M. Kish

Kathryn M. Kish

BOOK 3272 PAGE 806

BOOK 3272 PAGE 816

TAXING DISTRICT NO. 16 PERTH AMBOY

REAL PROPERTY TAX LIST 1990

COUNTY NO. 12 MIDDLESEX

PAGE NO.

1 Block	2 Block No / Lot No / Qualification / Account No.	3 Land Dimensions / Building Description / Additional Lots / Acreage	Prop. Class	4 Owner's Name / Address / City State / Property Location	Building Code / Zip Code / Tax Map Page	5 Land / Improvements / Total Value	6 Exemptions Code	6 Exemptions Amount	7 Net Taxable Value	8 Deductions Code	8 Veteran	8 Senior Citizen	8 Disabled	9 Special Tax Codes	10 Homestead Paid	10 Homestead Credit	10 Homestead Deduct	10 Homestead Deferred	11 Veteran Deferred	12 Delq Amt 1989 / 1990
8327 1	424 7	50X100 SF3G Ud .1148	2	SANTIAGO, JESUS & ROSA 158 PULASKI AVE. PERTH AMBOY, N.J. 158 PULASKI AVE.	01175 08861	37500 99600 137100			137100		V2									.00 2630.32 1315.16
8328 2	424 9	25X100 SCB .0574	2	MIZERAK, M.CH. & O.CP. GURZO 156 PULASKI AVE. PERTH AMBOY, N.J. 156 PULASKI AVE.	08861	25000 79900 104900			104900	V2	04									100.00 1808.06 904.03
8329 3	424 10	25X100 SF .0574	2	MONAFSKI, ELIZ. & SUE YANOSO 154 PULASKI AVE. PERTH AMBOY, N.J. 154 PULASKI AVE.	08861	25000 66300 91300			91300	S1	02									250.00 1399.34 699.67
8330 4	424 11	50X100 SF2G Ud .1148	2	PEREZ, P. & E. & PEREZ, G. 150 PULASKI AVE. PERTH AMBOY, N.J. 150 PULASKI AVE.	04255 08861	37500 66600 104100			104100											.00 1649.34 824.67
8331 5	424 13	25X100 SF .0574	2	MANZO, A.O. & P. & SCIGULINSKY, M 25 LOCUST GROVE DRIVE CLARK, N.J. 148 PULASKI AVE.	07066	25000 86100 111100			111100	W1	03									50.00 1868.84 934.42
8332 6	424 14	25X100 SF1G .0574	2	BILAS, GERALD & CAROL ANN 146 PULASKI AVE. PERTH AMBOY, N.J. 779 PARKER ST.	08861	25000 89100 114100			114100		02									.00 1767.92 883.96
8333 7	424 15	25X100 SF .0574	2	ELISKO, JOHN 781 PARKER ST. PERTH AMBOY, N.J. 781 PARKER ST.	08861	25000 52600 77600			77600	V1	01									50.00 1049.56 524.78
8334 8	424 16	25X100 SF .0574	2	SZARULETA, LEONARD & M. 783 PARKER ST. PERTH AMBOY, N.J. 783 PARKER ST.	08861	25000 50400 75400			75400	V2	02									100.00 816.30 408.15
8335 9	424 17	50X100 SF2G Ud .1148	2	ANULCHO, CALIXTO & AURELIA 785 PARKER ST. PERTH AMBOY, N.J. 785 PARKER ST.	05235 08861	37500 55700 93200			93200											.00 1336.72 668.36
8336 10	424 19	63X100 & 24X100 TRI. SF2G 820-21 .0999	2	KSENIC, FRANK & MARIE H. 789 PARKER ST. PERTH AMBOY, N.J. 789 PARKER ST.	08861	51000 92400 143400			143400	V1	02									50.00 1491.54 745.77
8337 11	425 1.01	76.45 AC. 76.4500	4B	STOLT TERMINALS (PERTH AMBOY), IN 920 STATE ST. P.O.BOX 5 PERTH AMBOY, N.J. STATE STREET	08862	11467500 2460500 13928000			13928000											.00 357874.44 178937.22
8338 12	425 1.02	4.288 ACRES 4.2880	4B	BROWN, NEUBERNE H. JR. P.O. BOX 363 PERTH AMBOY, N. J. 1050 STATE ST.	08862	429000 0 429000			429000											.00 9249.24 4624.62
8339 13	425 1	6.93 AC. 6.9300	15F	PORT OF NY AUTHORITY ONE WORLD TRADE CENTER NEW YORK, N.Y. WATER FRONT LAND	10011	693000 0 693000			EXEMPT											.00 .00 .00
8340 14	426 2	6.6 ACRES SF PARTIAL 6.6000	4B	STOLT TERMINALS (PERTH AMBOY), IN 920 STATE ST. P.O.BOX 5 PERTH AMBOY, N.J. STATE ST.	08862	990000 1277600 2267600			2267600											.00 63364.84 31682.42
PAGE TOTALS	900	500		01 50		13200000		0											BLK	426
				01 250		4476800			17676800										LOT	2

(6)

TAXING DISTRICT NO. 10 PERTH AMBOY

REAL PROPERTY TAX LIST 1990

COUNTY NO. 12 MIDDLESEX

PAGE NO. 596

	1 LINE NUMBER	2 BLOCK NO. LOT NO. QUALIFICATION ACCOUNT NO.	3 LAND DIMENSIONS / Building Description / ADDITIONAL LOTS / ACREAGE / Prop. Class	4 OWNER'S NAME / ADDRESS / CITY STATE / PROPERTY LOCATION / ZONING / BILLING CODE / ZIP CODE / Tax Map Page	5 LAND / IMPROVEMENTS / TOTAL VALUE	6 EXEMPTIONS CODE	6 EXEMPTIONS AMOUNT	7 NET TAXABLE VALUE	8 DEDUCTIONS CODE	8 NO DEDUCT	8 NO OWNERS	9 SPECIAL ST CODES	10 HOMESTEAD FIXED	10 HOMESTEAD TENTS	10 HOMESTEAD ON SPECIFIC	11 SPECIFIC ASSESSED	12 DED AMT 1989 TAX 1990 LST
8341	1	426 3.01	3.234 ACRES 1 3.2340	FCM RLTY PARTNERS C/O SUMMIT ASSO RARITAN PLAZA I RARITAN CENTER, EDISON, N.J. 08818 PARKER ST.	549100 0 549100			549100					0	00			.00 6974.66 3487.33
8342	2	426 3.02	6.057 ACRES ISCB 4B 6.0570	FCM RLTY PARTNERS C/O SUMMIT ASSO RARITAN PLAZA I RARITAN CENTER, EDISON, N.J. 08818 PARKER ST.	1030200 3293200 4323400			4323400					0	00			.00 85280.58 42640.29
8343	3	426 3.03	5.706 ACRES 1 5.7000	STOLT TERMINALS (PERTH AMBOY), IN 920 STATE ST. P.O.BOX 5 PERTH AMBOY, N.J. 08862 PARKER ST.	1142000 0 1142000			1142000					0	00			.00 12294.98 6149.99
8344	4	426 3.04	8.823 ACRES 1 8.8230	STOLT TERMINALS (PERTH AMBOY), IN 920 STATE ST. P.O.BOX 5 PERTH AMBOY, N.J. 08862 PARKER ST.	1323000 0 1323000			1323000					0	00			.00 19026.70 9513.35
8345	5	427 1	7.640 AC ISCB 15C 7.6400	CITY OF PERTH AMBOY NUOVK PARK CITY HALL PERTH AMBOY, N.J. 08861 STATE ST.	1528000 37500 1565500		EXEMPT										.00 .00 .00
8346	6	427 2	1.374 AC 4B 1.3740	CONRAIL - PROPERTY TAX DEPT. P.O. BOX 8499 PHILADELPHIA, PA. 19101 STATE ST.	134000 0 134000			134000									.00 2953.72 1476.86
8347	7	427 3	1.783 ACS ISCB3G 4A 1.7830	SAFRAN, WALTER H. 176 KEARNY AVE. PERTH AMBOY, N.J. 08861 STATE ST.	427200 277000 704200			704200		01							.00 10445.62 5222.91
8348	8	427 3.01	0.07 AC. 1 .0700	SAFRAN, WALTER H. 176 KEARNY AVE. PERTH AMBOY, N.J. 08861 STATE ST LANDLOCK	700 0 700			700		01							.00 75.46 37.73
8349	9	427 4	0.0466 AC 1 .0466	SAFRAN, WALTER H. 176 KEARNY AVE. PERTH AMBOY, N.J. 08861 920 STATE	6000 0 6000			6000									.00 161.70 80.85
8350	10	427 5	3.584 ACS. ISPCCB, ISB 4B 3.5840	RARITAN PROPERTIES, INC. 1000 STATE ST. PERTH AMBOY, N.J. 08861 940 STATE ST.	716000 1721000 2437000			2437000		01							.00 43669.78 21834.89
8351	11	428 1.01	22.59 AC. 4B 22.5900	CUSTOM DISTRIBUTION SERVICES, INC P.O. BOX 363 PERTH AMBOY, N.J. 08862 1050 STATE ST.	4518000 3609000 8127000			8127000		01							.00 148979.00 74489.00
8352	12	428 1.03	250 FT. 4B .0000	CUSTOM DISTRIBUTION SERVICES, INC P.O. BOX 363 PERTH AMBOY, N.J. 08862 RIPARIAN RIGHTS	81800 0 81800			81800		01							.00 2695.00 1347.50
8353	13	428 1.04	1.6 AC 4B 1.6000	BROWN, NEUBERNE & CATHERINE P.O. BOX 363 PERTH AMBOY, N.J. 08862 STATE ST	80000 0 80000			80000									.00 3449.00 1724.60
8354	14	428 1.05	0.06 ACRES 1 .0600	CUSTOM DISTRIBUTION SERVICES, INC P.O. BOX 363 PERTH AMBOY, N. J. 08862 REAR OF STATE ST.	6000 0 6000			6000		01							.00 129.30 64.65
					1031400		0										428

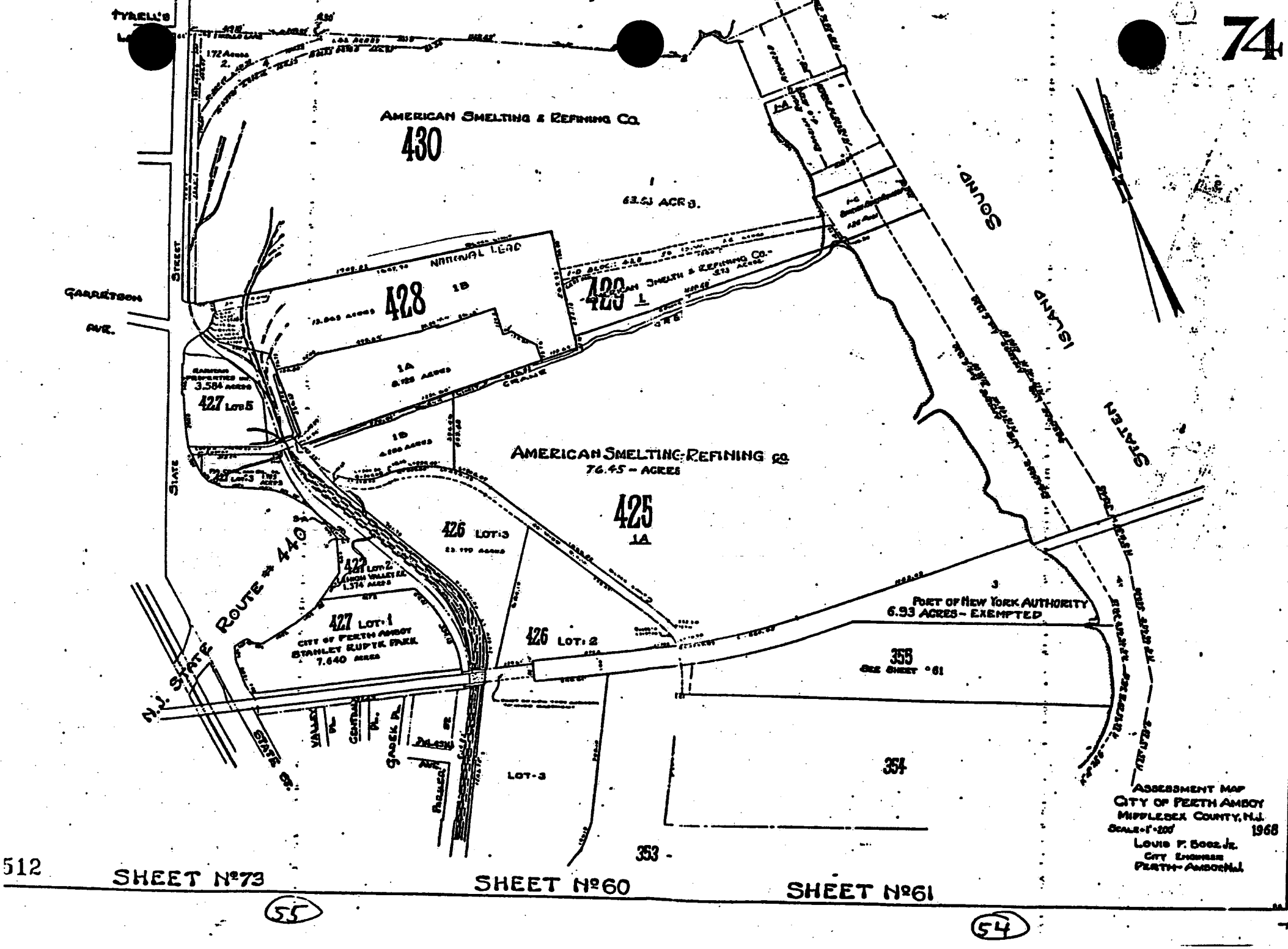
(2)

TAXING DISTRICT NO. 16 PERTH AMBOY

REAL PROPERTY TAX LIST 1990

COUNTY NO. 12 MIDDLESEX

2 BLOCK NO. LOT NO. QUALIFICATION ACCOUNT NO.	3 LAND DIMENSIONS Building Description ADDITIONAL LOTS ACREAGE Prop. Class.	4 OWNER'S NAME ADDRESS CITY STATE PROPERTY LOCATION ZONING BILLING CODE ZIP CODE Tax Map Page	5 LAND IMPROVEMENTS TOTAL VALUE	6 EXEMPTIONS CODE	AMOUNT	7 NET TAXABLE VALUE
429 1	5.730 AC. 4B 5.7300	STOLT TERMINALS (PERTH AMBOY), IN 920 STATE ST. P.O.BOX 5 PERTH AMBOY, N.J. 08862 1160 STATE ST.	573000 0 573000			573000
430 1	68.431 ACRES INDUSTRIAL BLDG 2,3,& 4 4B 68.4310	BROWN, NEUBERNE & CATHERINE P.O. BOX 363 PERTH AMBOY N. J. 08862 1160 STATE ST.	10264500 7245500 17510000			17510000
430 1.01	750 FT. 4B .0000	BROWN, NEUBERNE & CATHERINE P.O. BOX 363 PERTH AMBOY, N.J. 08862 RIPARIAN RIGHTS	222800 134400 357200			357200
430 5	0.4 AC. 1 .4000	BROWN, NEUBERNE H. JR. & CATHERIN 1160 STATE ST. PERTH AMBOY, N. J. 08861 STATE ST.	40000 0 40000			40000
431 1	50X114 2SB26 L2 2 .1309	PASTUSZAK, ANNA 875 877 STATE ST. PERTH AMBOY, N.J. 08861 875 STATE ST.	39500 139700 179200			179200
431 3	50X141 2SB26 L4 2 .1610	PIRES, MARIO & MARIA 05235 879 STATE ST. PERTH AMBOY, N.J. 08861 879 STATE ST.	44000 67900 111900			111900
431 5	50X155 2SF6B26 L6 2 .1779	SOKOLOWSKI, STELLA 330 LAWRENCE ST. PERTH AMBOY, N.J. 08861 883 STATE ST.	45500 72600 118100			118100
431 7	50X155 1SF16 L8 2 .1779	LYKOSH, JOHN & VICTORIA 889 STATE ST PERTH AMBOY, N.J. 08861 887 STATE ST.	45500 48700 94200			94200
431 9	100X155 2SCB L10-11-12 4A .3558	PUCCI, ANGELINE & PUCCI, RALPH 540 COLGATE AVE PERTH AMBOY, NJ 08861 891 STATE ST.	91000 156200 247200			247200
431 13	50X155 2.5SB L14 2 .1779	FORMESA, TEUDIS N. 01602 899 STATE ST. PERTH AMBOY, N.J. 08861 899 STATE ST.	45500 107300 152800			152800


AMERICAN SMELTING & REFINING CO.
430
63.63 ACRES.
NATIONAL LEAD
428
1B
429
1
1A
3.584 ACRES
427 LOT 5
GARRETSON AVE.
STATE STREET
AMERICAN SMELTING & REFINING CO.
76.45 - ACRES
425
1A
426 LOT: 3
427 LOT: 2
427 LOT: 1
CITY OF PERTH AMBOY
STANLEY RUPTK PARK
7.640 ACRES
N.J. STATE ROUTE # 440
STATE ST.
426 LOT: 2
LOT: 3
PORT OF NEW YORK AUTHORITY
6.93 ACRES - EXEMPTED
355
SEE SHEET #61
354
353
SOUND
ISLAND
STATEN
ASSESSMENT MAP
CITY OF PERTH AMBOY
MIDDLESEX COUNTY, N.J.
SCALE-1"-200'
1968
LOUIS F. BOGZ JR.
CITY ENGINEER
PERTH-AMBOY N.J.
SHEET Nº73
SHEET Nº60
SHEET Nº61
55
54

REFERENCE NO. 5

2034F
J2-200417

NUS CORPORATION

II

0580

ARTHUR KILL URBAN INDUSTRIAL PK.
02-9004-17
TDD MANAGER-B. SANDERS John D. Rieck Kilroff
LOGBOOK #0580
MAY 7, 1990

GUIDANCE FOR PROPER USE OF LOG BOOKS

Purpose

- Serves as a record of site activities and be understandable to an outside reader.
- Provides the basis for later written reports.
- Used as an evidentiary document and may be used in legal proceedings.

Distribution

- Controlled by the project manager and distributed as appropriate to personnel designated by the project manager.

General Procedures

- Record information in language which is objective and factual.
- Use ink. Waterproof ink is recommended.
- Leave first two pages blank. They serve as space for the table of contents to be added when the log book is complete.
- The first written page identifies the date, time, TDD number, site name, location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- Start on a new page at the start of each day's field activities. This page should identify date, time, TDD number, site name and location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- Log all persons leaving or entering the site.
- Information recorded in the log book should be in chronological order.
- Sign and date each page, log all entries using a 24 hour clock. Entries should be time logged every 15 to 30 minutes.
- Corrections are to be lined through and initialed. No erroneous entries are to be made illegible.
- Include a sketch or map of the site which can be used to locate photo or sampling locations. Note landmarks, indicate north, and if possible include an approximate scale. Include as many sketches and maps as necessary.
- A person not present when field activities were being documented should read each completed page, and countersign and date when satisfied that the written notes are understandable.

Specific Field Activities To Be Documented

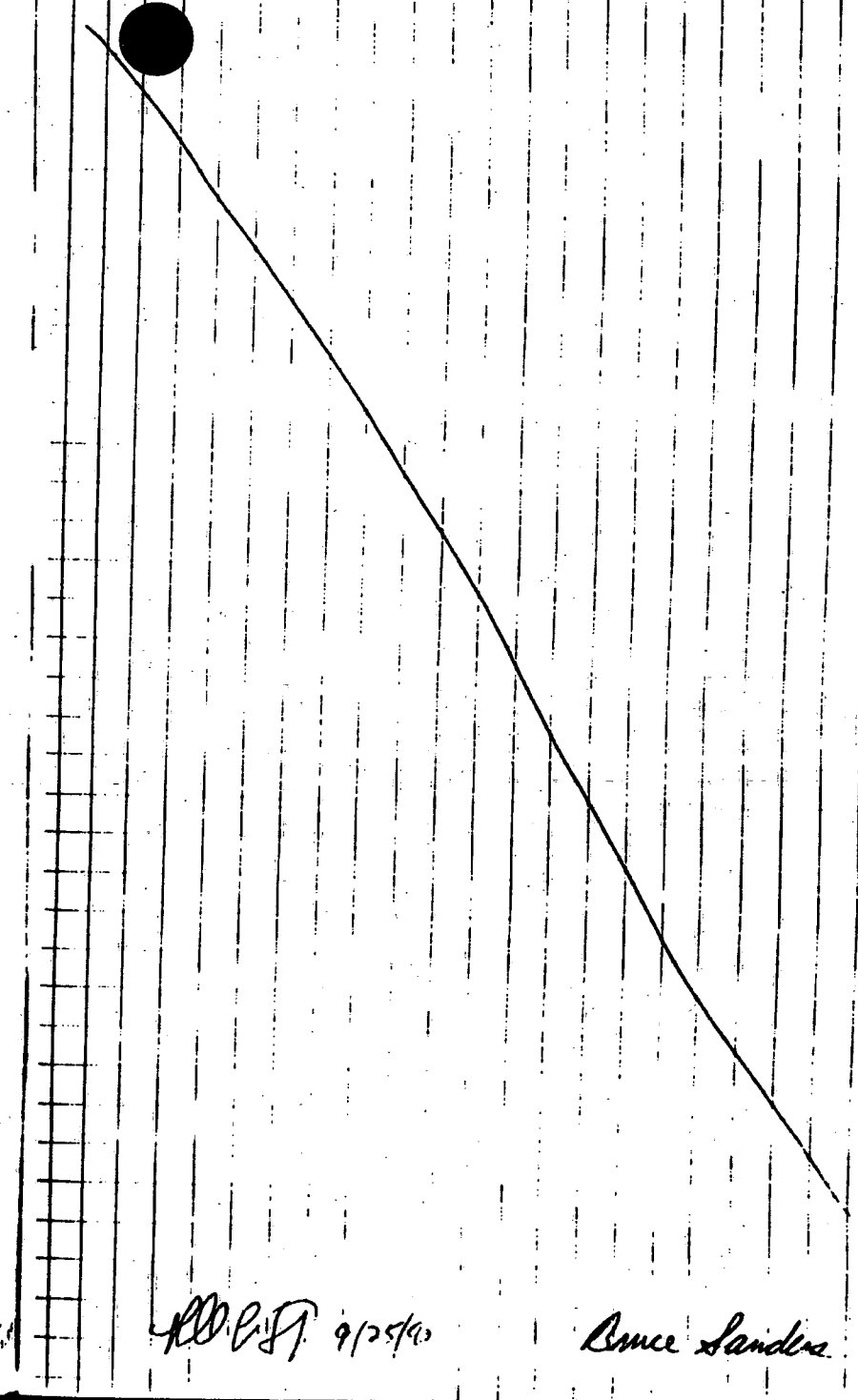
- Record the who, what and where of field activities.
- Indicate sampling and photo locations on a site sketch or map.
- As part of the chain of custody procedure, recorded in-situ sampling information must include sample number, date, time, sampling personnel, sample type, designation of sample as a grab or composite, and any preservative used.
- Information for in-situ measurements must include a sample ID number, the date, time, and personnel taking measurements. Pertinent in-situ measurements include but are not limited to pH, temperature, conductivity, flow measurements, continuous air monitoring measurements, and stack gas analysis. If unit calculations are necessary they must be checked and signed by a second team member.
- Create a photo log to document photos taken in the field. These must include date, time, photographer, sample number, roll number, frame number, photo ID number and description. Indicate if the film is for slides or prints in the column for roll number. Photo ID numbers can be added at the time the photo log is assembled.
- Record onsite health and safety measures used. Describe observed potential hazards to health and safety. Document the level of protection used, decontamination procedure used and specific decontamination solutions.
- When sampling is complete, a summary log is to be completed. It must include date, time, sample number, description, field book reference page, and the number and date of the chain of custody form on which the sample is listed. Indicate whether or not the sample was split.
- Record details regarding relevant information obtained during onsite interviews. Include names of persons interviewed, the interest group represented, their address and phone number.
- Record any other relevant information which would be difficult to generate at a later date.

Table of Contents

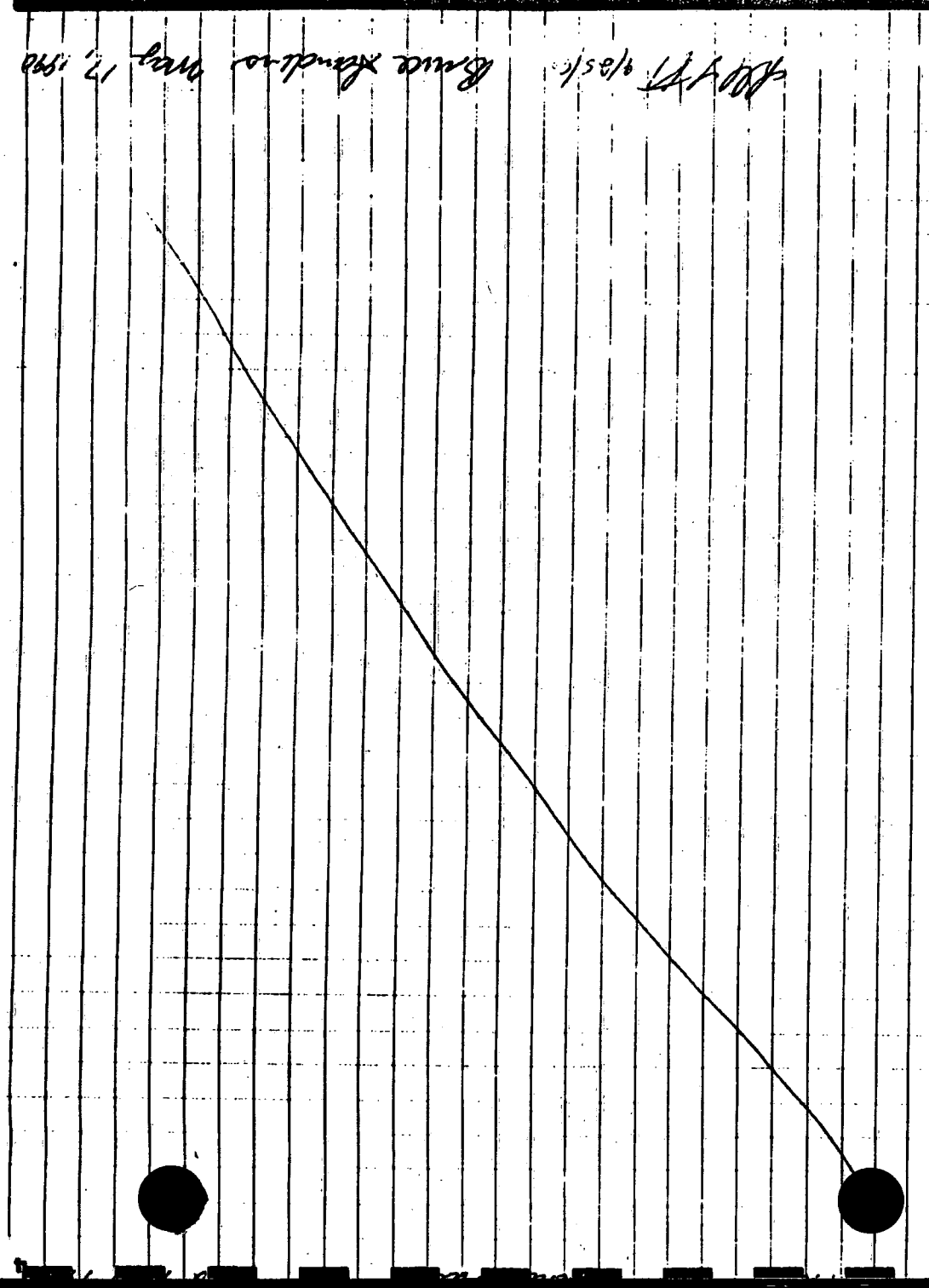
A Site Specifics page 5
1 Address
2 NUS Personnel
3 Arrival Time
4 Equipment
5 Weather Conditions
B Begining of Reconnaissance
1 Drive by tour of property } Page 6
2 questions asked of Mr. Piazza
3 Begining of Cranes Creek } Page 7
4 Twelve above ground tanks
5 Tour of southern boundary
a two wells located } Page 8
b drums
c propane tanks 2
6 East end of site
a 20' x 20' x 20' pit } Page 9
b two above ground tanks
c sampling for Cranes Creek
d drainage ditch
7 West end of site
a PCB tank } Page 9
b well #4
c Building with Copper Sludge
8 North end
a Four plastic sulfuric acid drums } Page 10
b Sandblasting material
c Blue water tank
d end of reconnaissance
9 Maps Page 11
10 Photo Reconnaissance Page 12 + 13.

Bruce Sandlin May 17, 1990

James Tutay 5-21-90



RBCJT 9/25/90 Bruce Sanders May 17, 19



Arthur Kill Urban Industrial Park
1050 State Street
Perth Amboy, NJ 08861

NUS Personnel	Task	Signature	Initial
Bruce Sanders	Site Manager	Bruce Sanders	BS
Dave Grupp	Site Safety Officer	[illegible]	DG
Kathy Indelicato	Reconnaissance	Kathy Indelicato	KI

all have read and understand the Work Plan.

Arrival Time: TO 5/17/90 9:45 we arrived at 1050 State Street for Custom Distribution Services on-site reconnaissance. We were greeted by Mr. Charles Piazza and Casey Collins.

Equipment:		EPA ID#
	OVA	428821
	HNU	469749
	Mini Rad	428588
	Picture Camera	~~428512~~ 5/17/90 397129
	Slide Camera	428512

Weather Conditions: Overcast and cloudy skies, with winds out of the southeast at about 5 mph. Winds gusting to 15 mph out of the south while conducting on-site reconnaissance. Temperature while out on-site is approximately 74°.

9:50 We parked the vehicle near the front gate and I spoke with the ~~base~~ 5/17/90 guard to tell him to call Mr. Piazza to let him know I arrived.

Bruce Sanders May 17, 1990
Laura Leto 5-21-90

Kathy stayed with the suburban while and I r with Mr. Piazza around the o of the . It was stated by Mr. that the property has approximately n tennants working in the building. ain portion of ~~tenn~~ as stated tennants utilize the y as warehouses. There are two companies tilize the property for manufacturing. Fiberglass produces underground fiberglass Acetylene as stated Supply Company is the other acetylene rtner on the premesis. Mr. Piazza stated here are approximately two or three wells site.

Fence surrounds the property but is d shape at certain areas along the end of the site. During tour, a lot ap metal and debris is noted. nd the back is a dump area with and tires. Buildings that are occupied are in poor delapitated with walls ~~roo~~ as stated knocked out broken windows.

Bruce Sanders May 17, 1990
Laura LaTorre 5-21-90

o Tour of property 2 manufacturers
Oy the back of property Cardinal Fiberglass
Midway
American Barnes } other companies onsite
A-D industrial Marine
Dave and I took a drive by tour with Mr. Charles Piazza to get an idea of the site. Wells 2 or 3 located on the site. Locations are supposedly DEP Approved.

10:07 Tanks oil sludge on west end of the site. ~~Bought from Arthur Hill Homdel Contractor~~ as stated ~~tanks~~ contain the sludge. DE
Questions from back of logbook were asked of Mr. Piazza. He responded to every question hesitantly.

10:15 Mr. Piazza finished answering some of the questions. I spoke with him concerning PCB's in Cranes Creek. He stated that the PCB's are from an overflow of a manhole on State Street. The slope is toward Cranes Creek but it a long way to travel with many obstacles. He stated that the PCB's are from ~~Whace~~ Wheaton as stated Industries which is not located on the property.

10:20 Starting to get dressed in PPE and begining to get all equipment together.

Bruce Sanders May 17, 19
Laura LaTorre 5-21-90

Cranes Creek initiates directly on the
1 Distribution Site and it flows around
operty to the Arthur Kill River.

The color of Cranes Creek is a
ee light greenish color. It runs along
estern edge and defines the southern
1 of the site.

Note approximately ~~six~~ 12 RRF 9/25/90 large above
nd tanks approximately 25 feet high
10 - 15 feet wide. Reportedly contain
oil and sludges. They were previously
by Homdel Construction, and were
hen the property was purchased from
Kill Industrial Park. It is stated that
the DEP ordered Homdel to clean the
but no action was undertaken.

underground tank, which contains waste
located within a cement vault under a
~~slab~~ BS 9/26/90 slab. BS 9/26/90

Bruce Sanders
Laura LaBorge 5-21-90 May 17, 1990

Arthur Kill 08-9001-17 7

10:30 Dave checking air monitoring equipment.
OVA no reading above background.
HNU no reading above background.
Mini Radiation count per minute 18.
Kathy myself and Dave are in personal
pro BS 5/21/90 protective equipment.

10:37 We are all ready to begin on-site
reconnaissance of the Arthur Kill Site.

10:40 Stop at the begining of Cranes Creek and
taking picture 1.

10:44 Dave notes bubbles coming out of
begining of Cranes Creek ~~too~~ with little water
flowing from the bottom. The smell is a
sewage type of smell.
10:45 Taking picture 2 at Cranes Creek
~~so~~ smell raw sewage. Soil is blackish
in color.
10:49 Dave notes that tanks are dyked
and in a cement lined but there is a
hole in the cement and it could possibly
leak. Twelve tanks are noted in this area partially
filled of sludge.
10:55 Leaky tank behind small building. A picture ~~#~~ 4
of this tank is taken RRF 9/25/90.
~~RF~~ 10:57 ~~N~~ Underground w/ large cement slab above it. West of bldg No. 2 RRF 9/25/90
No readings on OVA HNU above
background. These two tanks are near within
50 feet of the tall above ground tanks.
11:02 Heading toward ~~Cranes Creek~~ BS 5/1 to examine
the southern section of the site. Cranes Creek

Bruce Sanders May 17, 90
Laura LaBorge 5/21/90

11:06 There is a large horizontal yellow Semi rusted to [illegible] outside this building with no type of containment utilized. This tank is believed to be empty.

11:25 At the northeast end of this site are underground fiberglass tanks that are manufactured by Cardinal Fiberglass Company.

11:06 Noted on the south side and adjacent to Cranes Creek are wetlands approximately 5 acres in size and flats approximately 100 feet away from the site boundary.

Laura LeTarge 5-21-91

Bruce Sanders
May 17, 1990

May 17, 1990 Acetyline Welders Hill 9004-17

11:03 Acetyline Supply Co. liquid [illegible] truck just passed by to make a delivery.

11:04 Near Jersey Express building well on South side 2612108-5 well number. This is on the south side of the site.

11:06 Walking along boundary and Cranes Creek Wells plated in a couple of years ago. Supposedly tested, Gilian associates tested the well according to site representative.

11:11 Well number 2612107-7 located outside of drums and building of Joseph Adler and is located on south southwest of site.

Metal Recycler warehouse package metals for recycling.

11:14 Adjacent Perth Alloy Iron Works general contractor.

11:16 Acetyline Services Co. Manufacture acetylene six lime liquid storage tanks located on this grounds.

11:17 Midway Inc. Steel Fabricator large above ground tank empty no containment. No readings above background

11:20 Southeast end of site looking at site picture 7. There is a lot of scrap metal in the area just lying around.

11:23 Two more tanks reported empty at east end of site. Taking picture 8. One sounds like it has something in it. Trailer at backend that is rusted out.

11:27 PID 20×20×20 Oil substance very viscous liquid. 10 ppm OVA from air emanating in hole.

Laura LeTarge 5-21-91 Bruce Sanders May 17, 1990

:37 Proper[illegible] adjacent on the east end
ustom Distribution Services is owned by
Street Industrial Park and Stolt
inals. This is a good area to sample
Creek.

Lauren Litay 5-24-90 Bruce Sandera May 12, 1990

5/12/90 Arthur Kill 02-9004-17

11:31 No readings on HNU

11:31 20'x20'x20' Pit picture
No readings above background in adjacent pit that may be separate from initial pit. Should be a sampling must!

11:35 Third well with number 261210-7 located on the north side of two drums. BB 5/12/90
tanks.

11:40 Property owned by State Street Industrial Park
Stolt Terminals

11:42: Sampling point for ~~[illegible]~~ Cranes Creek at back end of site near 3 cement poles

11:45 Drainage ditch at backedge NE corner to back northern corner of property outside fence. No readings on OVA or HNU above background.

11:53 Another Well ~~number 4~~ BB 5/12/90 well # 261209-3 next to green tank 1/3 full with off spec oil here when ~~property~~ purchased. Dave found sign on tank stating PCB's are in the tank.

11:55 Concrete floor drums containing ~~a~~ copper sludge There is water that goes under the building that could be sampled.

11:58 Dave and Kathy looking at building

at 5/12/90 12:00 ~~00:00~~ Tank labeled with PCB stiche and drums in building.
No readings on OVA or HNU above background. The bottom is diked and has a cement floor.

Bruce Sandera May 12, 1990
Lauren Litay 5-24-90

:01 [redacted] [redacted] [redacted] [redacted] 90 17

00:01 Possible sample below drum [redacted]
Water flooded basement.

12:05 at 5/17/90

00:05 No records here on well logs, but stated that the DEP approved placement of wells.

12:06 at 5/17/90 00:06 Fiberglass Manufacturer on North west end of site known as Cardinal Fiberglass.

12:08 at 5/17/90

00:08 A+D Industrial ~~Marine~~ Marine Repair another building on site.

12:10 at 5/17/90 00:10 Plastic Sulfuric Acid Drums 4
Between A+D and Jersey Express next to pole 3359 PS.

12:12 at 5/17/90 00:12 Midway back Empty building
smells of diesel fuel. No readings on OVA HNu above background.

12:14 at 5/17/90

00:14 Sandblasting material on ground called "Black Beauty"
Possible soil sample

12:21 at 5/17/90

00:21 Big Blue tank filled with water on northwest end near entrance. Rusted Propane tanks ~~[illegible]~~ with cement bottom and water ~~[illegible]~~ underneath.

12:24 at 5/17/90 at NUS

00:24 We would like to have a map of the site and the names of all the tenants.

12:26 5/17/90

00:26 ~~The~~ Mr. Piazza requests duplicate photo's for the site

Bruce Sandva May 17, 1990
Laura Litzger 5-21-90

5/17/90 Arthur Kill 900417

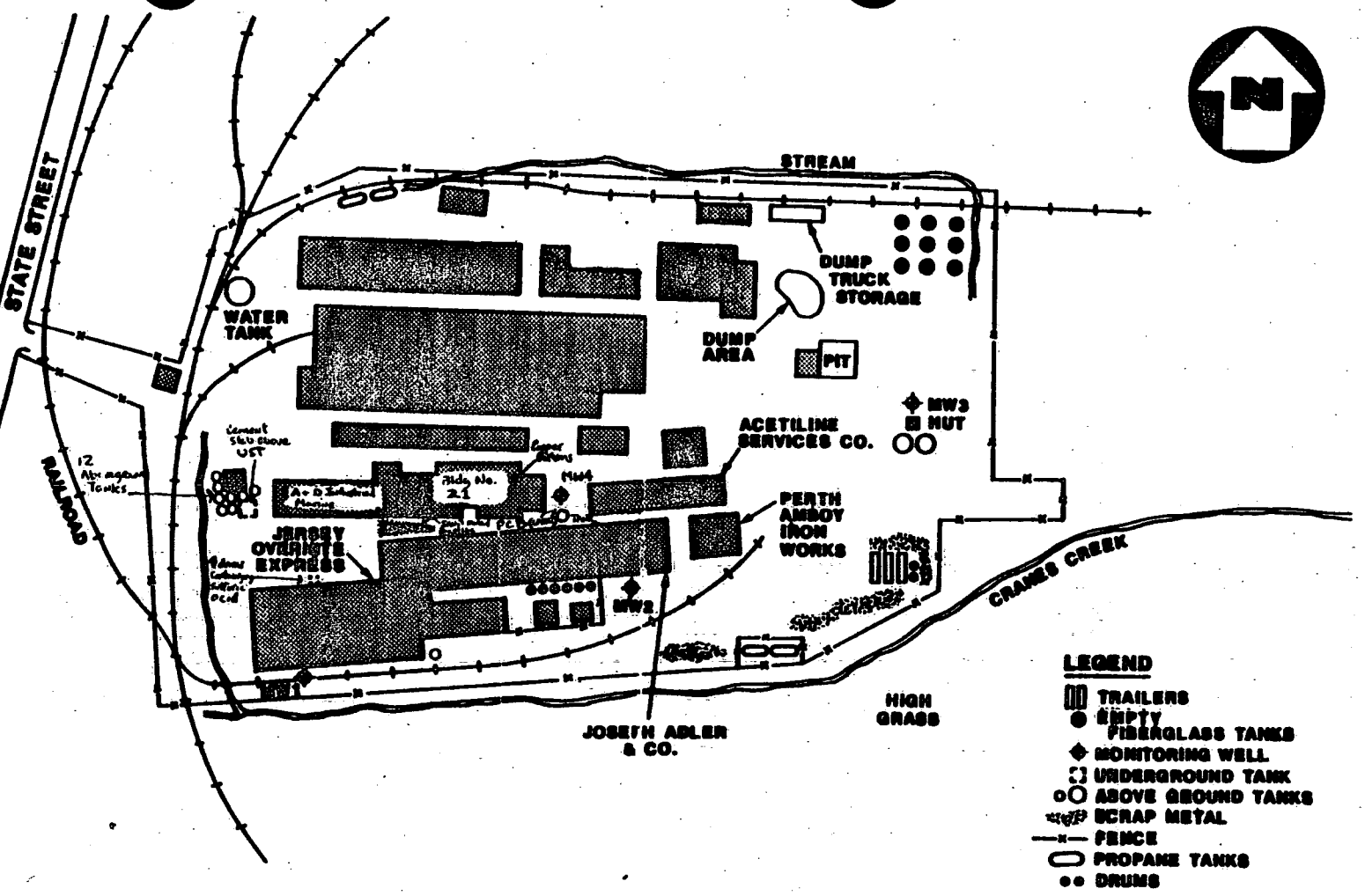
12:27 BS 5/17/90
~~00:27~~ Finished on-site reconnaissance and changing out of PPE.

12:36 BS 5/17/90
~~00:36~~ Leaving the Custom Distribution Services Grounds.

13:00 BS 5/17/90
~~1:00~~ Arrive from the on-site reconnaissance back at NUS Office.

Laundetay 5-21-90

Bruce Sanders May 17, 1990



R&F 9/25/90

SITE MAP

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, N.J.

NOT TO SCALE

FIGURE 2

NUS CORPORATION

Photographs

Cranes Creek BS
Nuwest

k at Creek BS
K

tanks
edge of BS
rainy south

tank BS
ding looking
z

o facing BS
l drums BS
building

ing NW BS
and
ch of site

ing NE BS
and

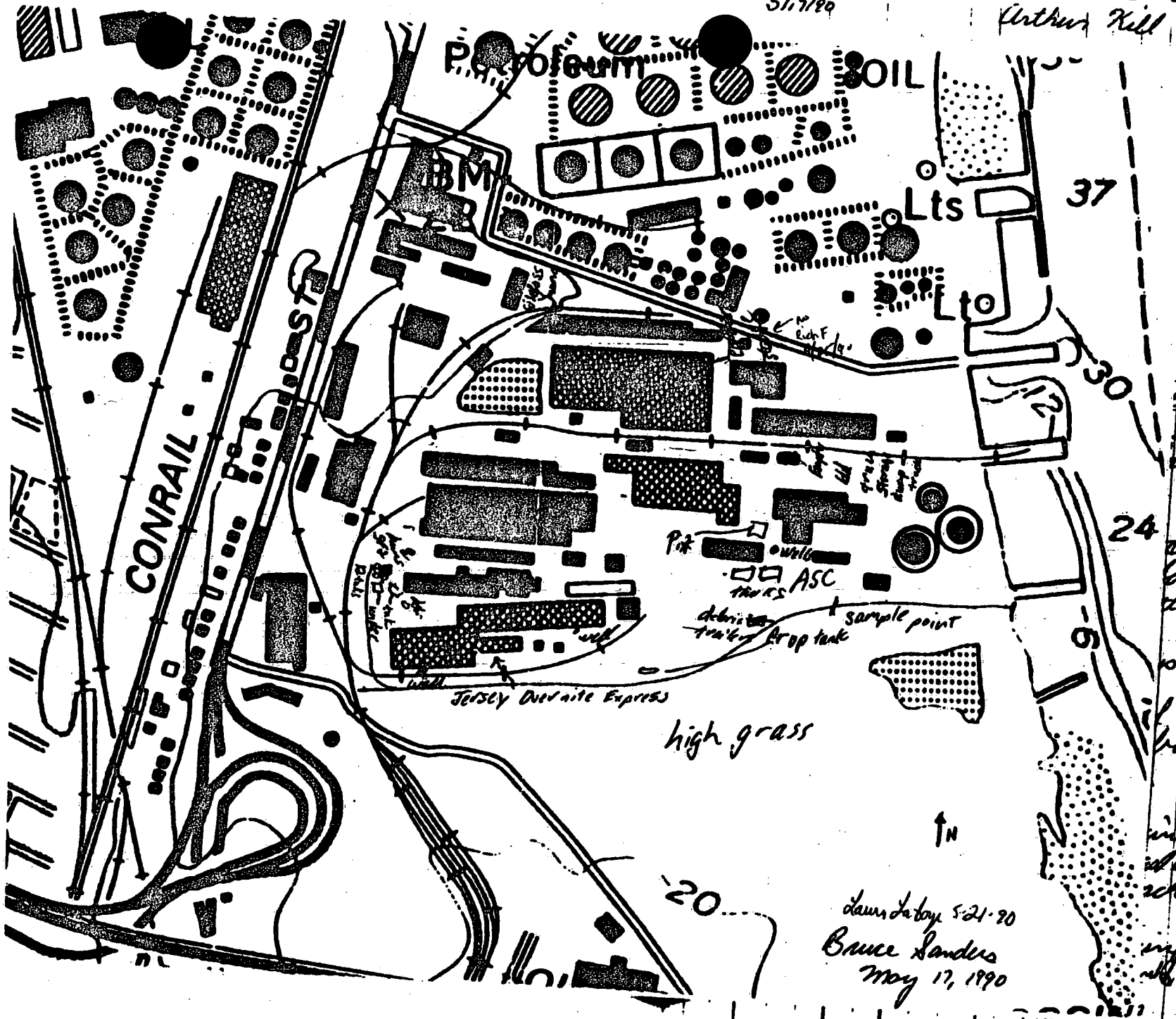
Bruce Sanders 5/17/90

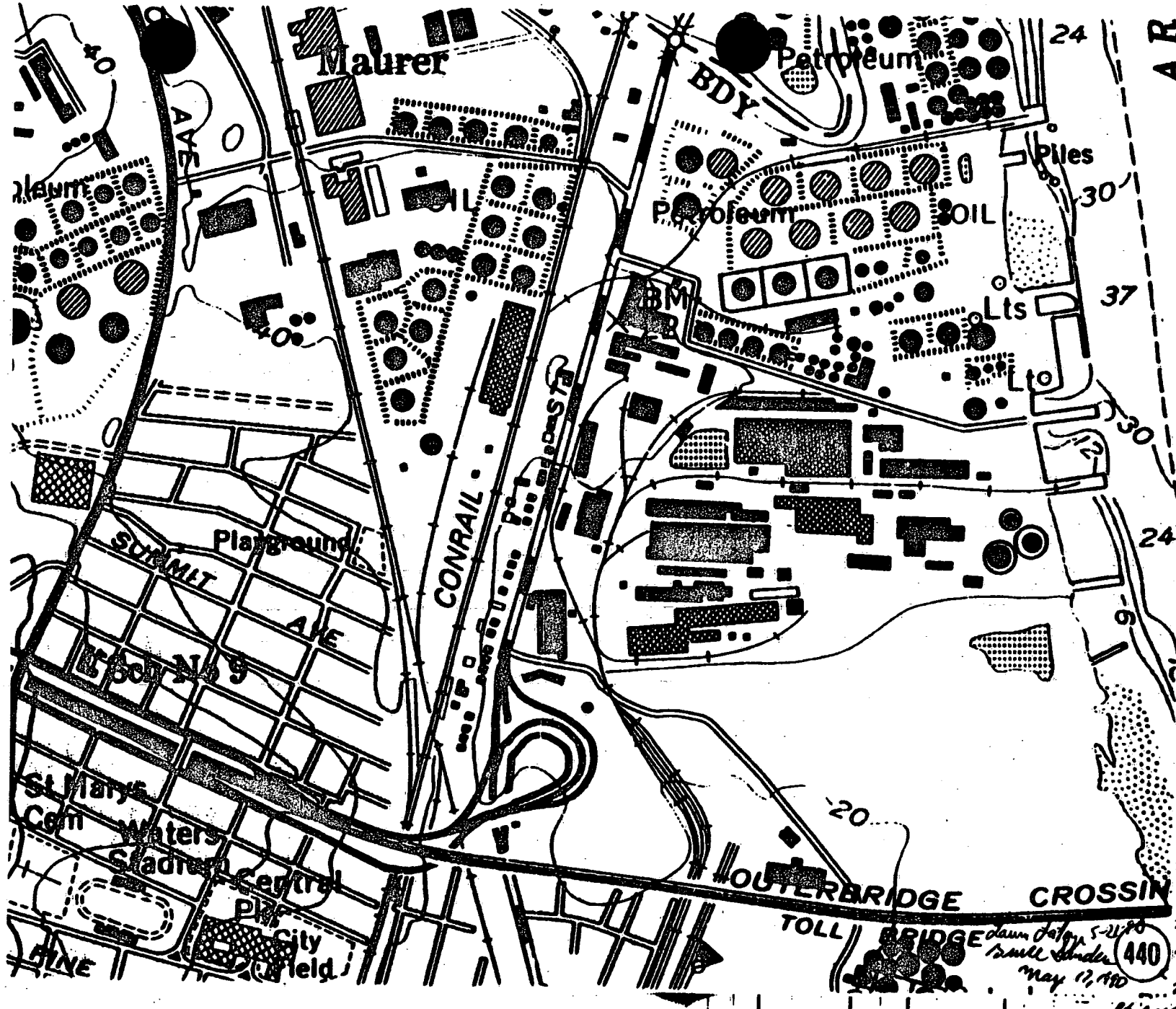
Laura Lo, 5 21-90

5/17/90

Kirkham Kill

P004-17





	Photographer
Grass Creek Upwest	BS
k at Creek	BS
tanks edge of wing south	BS
tank ding leaking	BS
o facing	BS
drums building	BS
ing NW and ch of site	BS
ing NE and	BS
Bruce Sanders	5/17/90

[redacted] Arthur Hill [redacted] 90 [redacted] 7

Photo

Date	Time	Roll	Picture Slide #	Description	Photographer
5/17	11:32	1	9/9	Picture of 20x20x20 foot pit facing south	BS
5/17	11:48	1	10/10	Picture of debris at back northern Edge of site facing West.	BS
5/17	11:56	1	11/11	Picture of tank 1/3 oil and surroundings facing west	BS

Laura L. Fox May 21-90

Bruce Sanders May 17, 1990

[redacted] 17/9[redacted] [redacted] [redacted] [redacted] [redacted]

Da[redacted] Time	Roll	Picture Slide #	Description	P[redacted]graphs

[illegible] 9/25/[illegible] Bruce Sanders May 17, 1990

Arthur Kill 02-9004-17

Discussion and Question
with Contact

1) Where is the 20'x20'x20' pit located?
2) Building housing laboratory chemicals and copper sludge?
3) Are there any groundwater wells on-site?
4) When did you purchase the land?
5) Have there been any further problems with the sewer system?

Located in back 20'x20'x20' pit

Chemicals gone contractor

copper sludges in the building

Whitco Industries PCB's

Tenants since property purchased

Asteline supply lime trucked out

Needed → Maps of site
Tenants

DEP Wells check

1) The 20'x20'x20' pit is located near the northeast end of the site just below a little shack. Note this is where readings of PCB's were measured.

Lawrence Hy 5-21-92 Bruce Sandera May 12

2) The building that housed the chemicals was stated to have been cleaned up. There was contractor who was hired who placed the chemicals in drums and removed the drums.

3) The building with the 29 drums filled with copper sludge still exists and is located in the northeast section of the site. When approached the drums looked very rusty and in poor condition.

BS 5/12/90

4) It was stated by Mr. Piazza that there are two or three wells located on site. The location of these wells are supposedly approved by the DEP.

5/12/90

It was stated that the land was purchased approximately in the early 1980's. It was owned at that time by the Arthur Kill Urban Industrial Park.

5) No further problems with the sewer system. He did make a statement that the PCB's are from ~~Whitco~~ Whitco Industries which is not located on site. It was also stated that Whitco came in and did some type of clean-up in the creek.

There are approximately a dozen tenants that occupy buildings on the property. They have been there since the purchase of the property.

Laundretta 5-21-90 Bruce Sheridan May 17, 1990

Acetylene Supply Company, one of two manufacturers on-site, trucks in and out liquid lime for its processes.

Lawrence Lopez 5-21-98 Bruce Sandera May 17, 1990

Arthur Kill 02 04-17

Sampling Inspection

I Table of Contents

A Site Specifics Page 21
1 Address
2 NUS Personnel
3 Arrival Time
4 Equipment
5 Weather
B Page 22
1 Personal Protective Equipment and Decon.
2 At the pit area for ~~Depth~~ SEDS sample SED5
C Page 23
1 Readings in Pit
2 Deciding how to sample pit.
D Page 24
1 Sampling SEDS the pit area.
E Page 25
1 Sampling of SW7 Copper Sludge Bed.
F Page 26
1 Finishing SW7
2 Heading to sample SW3 & SW4
G Page 27
1 Sampling
a SW4
b SED4 > east end of Cranes Creek
H Page 28
1 Sampling
a SW3
b SED3 > still at east end of site and sampling Cranes Creek
I Page 29
1 Sampling
a SW1
b SW1 duplicate
c SED1 > western edge of Cranes Creek

Bruce Sandera June 13, 1990 9/25/90

f Page 30
1 Sampling
a SW2 > Upstream sample Cranes Creek
b SED2

II Soil Sampling
A Page 31
1 Soil Samples
a S5
b S4 > location and bearing of sample
c S3
d S-6 duplicate of S3
B Page 35
1 Soil Samples
a S2 > location and bearing of sample
b S1

III Photo Reconnaissance
A Page 32
1 Photos 1-7
B Page 33
1 Photos 8-16
C Page 34
1 Photos 17-20

IV Finished Sampling
A Things Completed
1 Clean-up
2 Load truck
3 Federal Express.

Bruce Sanders June 13, 1990 BS 8/25/90

Bruce Sanders June 13, 1990 [illegible] 9/2/90

Site Sampling Inspection

Arthur Kill Urban Industrial Park
50 State Street
Perth Amboy, New Jersey

Personnel	Task	Signature	Initial
Sanders	Site Manager	Bruce Sanders	BS
Rojek	Site Safety Officer	Kenny Rojek	KR
Foster	Sample Management	Dennis Foster	DF
Leahy	Sampler 1	Jeffrey Leahy	JL
Ikos	Sampler 2	Joe Ikos	JI
Harrison	Assistant Site Manager	[illegible]	[illegible]
Scerbo	Sampler 3	[illegible]	[illegible]
Cicollo	Sampler 4	Philip Cicollo	PC

have read and understand the work plan

Time: We arrived at the Arthur Kill Site 9:45am. We were greeted by Casey Collins and Charles Piazza the Custom Distribution Services representative at 9:10am.

Equipment:

Name	EPA I.D. #
OVA	B 307134
HNu	L 469748
Mini Radiation	469-786
Picture Camera	423801
Slide Camera	469770

Weather: Mostly sunny winds are 0°-5 mph out of the south and the temperature is 70°-. By 6:00pm, the clouds rolled in and it rained lightly.

Sent Bob and Dennis for ice for the sample coolers. We are waiting for Mr. Piazza the site representative.

Bruce Sanders 6/14/90
Bruce Sanders 5/18/90

Weather Conditions: Noted on previous page.

8:59 John, Gary, and Phil are lining the truc with plastic. The suburban will be utilize for people doing wells.

9:10 Met with Mr Riangs. He gave us jelly jars as sample jars. He looked at the locks. They are rusted, and we will cut them and give their keys to the replacement locks.

9:15 Joe and Jennifer getting into PPE so they can decontaminate the equipment. Bob and John also getting the suburban ready for the well crew.

9:34 OVA + HNu no readings above background. Mini Rad has 18 counts per minute x 1 scale. Gary held a health and safety meeting.

10:12 John, Phil, and Bob left to purge the wells. Their first stop is well GW3 which is just across from the pit which is sample SW5 and SW6.

10:21 Leaving for the first sample which is the pit. This is the sample for SW5 and SW6.

10:29 At the pit 1 area, Gary is checking the hole for readings. No readings in breathing zone. OVA [illegible] open under cover. Mini Rad 17 counts per minute. This is at location SW5.

10:36 Because of readings in pit, open cover under level B to vent. No readings are noted on the HNu above background.

10:40 Joe + Jennifer are on air to check pit. They will remove ~~cover~~ cover to see if reading in breathing zone. Bruce Sanders 6/14/90 Maple Trigella

~~he~~ AS 6/14/90 ~~ch~~ AS 6/14/90

10:42 Joe ~~&~~ and ~~she~~ Jennifer are checking to see if it is phased. It looks like all oil and it is not phased. It is sludge and readings with 20 ppm on the OVA above background detected in the air above the pit.

10:50 Joe and Jennifer are off air. We are calling back to the command post so Dennis can call Rich to find out how to sample the pit.

10:55 Gary and I return to command post to speak to Rich about sampling the pit. Jen and Joe stay back at pit to watch the equipment.

11:00 At the ~~comman~~ AS 6/14/90 command post, Rich states that we have to claim the sample as a medium concentration. Due to the problem we will have by using a trailer, we decide to use the Eckman Dredge to attempt to get SED5 sample. We do not have the equipment to get SW5 sample.

11:15 Arrive back at pit/area and explain plan to Jen and Joe. We will not sample other pit 2 SW6 and SED6 because we can not get metal plate off of the ~~whole~~ AS 6/14/90 hole.

11:20 Preparing Jen and Joe for level B work while sampling pit for SED5. Preparing the Eckman Dredge with rope and messenger.

Mysha Trujillo 6/18/90. Bruce Sanders June 14, 1990

11:24 Joe and Jen on air to sample pit with Eckman dredge. The one side did not close so we could not get a good sample. We did get some of the bottom of the pit.
11:28 Joe and Jen tried a second time but the dredge would not close. The very viscous substance holds up the messanger.

11:32 They just tried a 3rd time but the dredge would not close. We have decided to lower the dredge to the surface and then send the messanger.
11:34 They are now using the dredge to take it off the top and they placed the sample in a bowl.

11:42 Sample sed 5 is taken from pit and put in an oil sledge. Picture 1 is taken of Joe taking sample. Joe goes off air to pick up another tank. He then goes back on air.
11:50 Sample sed 5 is completed and Joe and Jenifer are cleaning up. The equipment is placed in garbage bags.
11:55 Joe and Jennifer are done and off the air.

11:57 Sample sed 5 is taken at 220° and a distance of 79 ft from corner North of Acetylene Supply Co. A sample was also taken for Mr. Pianga Cho to his SEDS sample.

Maggie Trujillo 6/18/90. Bruce Sandera June 14, 1990

00 Leaving pit area and going toward building with copper sludges. This is sample SW7 where water is under building.
12:12 Looking at sample location from water under copper sludge building. No reading above background on OVA or HNu.
Speaking with owner of next building drums showed up about 3 years ago. Gary from P & B industrial, stated this and he has been here 11 years. He said there was a turbine here, but it was sold and then the drums appeared. He stated these drums are marked Hazardous Waste. Not believed to be copper sludges.
12:15 Joe and Jennifer went back to command post to get a drink. Mini Rad at SW7 had a reading of 12 counts per minute

12:24 Called John and I am ~~no~~ awaiting string so as to sample the subsurface water at location SW7. Joe Filosa will be collecting sample SW7. 9/11/90 DS
12:28 Taking picture 3 of copper building facing west. This the east end of the building
12:30 John arrives with the string so we can use the boiler.
12:35 Joe and Jennifer are beginning to get ready to sample subsurface water SW7. Gary checks for readings with no readings above background on both OVA or HNu. The pH was above 3.7 and took 8 drops for pH of 2.
12:50 SW7 subsurface water sample is taken along with duplicate for Mr. Piazza for Filosa collected sample SW7. 9/11/90 DS
RELEASED 9/25/90 Bruce Landers June 14, 1990

R. PA/53 Subsurface water is being
on east end of Copper Sludge building

9/25/90 Bruce Landers June 14, 1990

RI 34/P5
3:44 Taking picture of Cranes Creek where face water 4 is being collected.

55 Picture of the collection of surface water
! RI 55/P6

LD 9/25/90 Bruce Sanders June 14, 1990

3:51 SW 7 distance and angle [illegible] corner containment wall for surrounding above ground tank 130° and distance 73.2' feet
Degrees to center of green tank 150°

Degrees from monitoring well 4 is 120° and at a distance of 69 ~~feet~~ .7 in 8/29/90

12:58 Leaving SW 7 for a drink back at the command post
1:05 Back at command post for drinks.

12:10 BS 6/14/90
1:10 Preparing bottles to sample at location SW4 and SW3. These samples will be taken out of Cranes Creek at the back end of the Custom Distribution Site.

1:20 Joe and Jim are resting in the shade behind truck. They both look tired but say they are doing okay.

1:27 BS 6/15/90
1:27 Leave going toward SW4 to sample Cranes Creek. No readings on OVA or the above background
1:40 Arrive at SW4 and are checking the PH of Cranes Creek which was greater than 1 and it took 10 drops to get PH of 2
1:45 6/14/90
1:55 After testing PH Jim and Joe are taking sample SW4. Joe is collecting the sample. 2/21/90 BS
2:10 Dennis and John are doing fine
RI LD 9/25/90 Bruce Sanders June 14, 1990

14:40 R1 P8/57 Picture of surface water 3 being collected from Cranes Creek

14:55 R1 P9/58 Picture of SED3 being collected from Cranes Creek.

2:35 A second location was chosen east of the original and downstream PH 3.8 took 10 doses until PH 7 was reached 2:40 Began sampling SW3 at backend of site. We also are taking a sample for Mr. Pragga his SW03. No reading above background on the OVA and HNu or Mini Rae above background

2:50 Finished sampling SW3

2:55 Begin sampling for SED3, and we are also taking SED3 for Mr. Pragga in a gram jelly jar.

2:52 Mr. states that soil is coarse and black in color. It also has stained soil in the area.

2:59 Taking measurements for SED3 and SW3. The measurement is 308 degrees from the fence post on south side of Custom Distribution gate. It has distance of 153 feet. John picks up sample cooler and drives it to subdivision and command post

3:10 Leaving SED3 and SW3 for drinks at command post.

15:20 at Clinton

3:20 Back at the command post and we are getting SW1 ready

15:37 at Clinton

3:30 Leaving for SW1 sample at the west

1:58 Taking Jelly Jar sample for Mr. Piazza this SW4

1:59 SW4 is the location for the MS/MSD sample of aqueous

14:03 6/14/90

2:03 Finished taking aqueous samples for SW4 and am almost ready to start sampling for SED 4. Sample taken 270° and 4 feet from middle via duct located in the Creek.

14:07 6/14/90

2:07 Begin sample sed 4 at back area of Chanes Creek and ~~now~~ taking picture number 6. Joe Filoso collecting sample. 9/25/90

14:09 6/14/90

2:09 Sediment is very coarse and pebbly. It has an iron look to it according to Joe. This sample is on the north bank and is 240 degrees from middle via duct on east side at a distance of 34 feet.

14:15 6/14/90

2:15 Finished taking sample SED 4 at back of site. We also took a sample SED 4 for Mr Piazza in jar with green top.

14:17 6/14/90

2:17 Leaving sample SED 4 for sample SW3. Gary and I are looking for place to sample SW3

14:30 6/14/90

2:30 We could not take ~~the~~ sample ~~instead~~ SW3 at its original location due to Health and Safety concerns of tall brush and unsafe access. RQF 9/25/90

RLLM 9/25/90

Bruce Sandoval June 14, 1990

14:40 R1 P8/37 Picture of surface water, 3 being collected from Cranes Creek

14:55 R1 P9/38 Picture of SED3 being collected from Cranes Creek.

2:35 A second location was chosen, PH 3.8 East of the original and downstream 10 degrees until PH 2 was reached.

2:40 Began sampling SW3 at backend of pit. We also are taking a sample for Mr. Piazza his SW3. No reading above background on the OVA and HNu or Mini Rad above background

2:50 Finished sampling SW3

2:55 Begin sampling for SED3, and we are also taking SED3 for Mr. Piazza in a green fully jar.

2:57 Mr. states that coal is coarse and black in color. It also has stained coal in the area.

2:59 Taking measurements for SED3 and SW3. The measurement is 303 degrees from 70 feet east on south side of open Custom distribution gate. It has a distance of 153 feet. John picks up sample SW3 leaving SED3 and SW3 for drinks at command post.

3:20 Back at the command post and we are getting SW1 ready

3:30 Leaving for SW1 sample at the west end of the site.

Photo Bruce Sanders

16:00 [illegible]ture of SED 1 being collected from Cranes Creek R1 P12/S11

WLD 2/25/90 Bruce Sanders June 14, 1990

6/13/90 Arthur Kill 02-9009-

15:44 AE 6/14/90
3:44 Beginning sample SW1 and [illegible] a duplica SW8 and SED 1. The PH is less tha 3.8 and it takes 10 drops for PH less than 2. The water looks oily and is brull. We took a sample for Mr. Pizzo SW1 at same location. No readings OVA and HN gets an occasional 1ppm reading.

15:50 AE 6/14/90
3:50 Picture 11 of sample SW1 being collected. for Pizzo collecting sample. 9/21/90 AE

15:55 AE 6/14/90
3:55 Beginning to collect SW8 which is a dupl of SW1

16:00 AE 6/14/90
4:00 Collecting SED 1 from Cranes Creek. Immediate layer is coarse and oran and the rest is black sandy type of material. OVA reading 20-30 ppm right where sediment sample is at. Gary said to move to clean breathing zone. Collected SED 1 for Mr. Pizzo for Pizzo collecting sample 9/21/90 AE

16:05 AE 6/14/90
4:05 Taking measurement for SED 1 SW. and & SW 8 from Utility pole G3555 PL The sample is 25 feet from pole at a direction of 80 degrees.

16:10 AE 6/14/90
4:10 Leaving SW1 to go back to command post.

16:15 6/14/90 AE
4:15 Back at command post getting SED2 and SW2 ready to go. We will be taking the samples next.

WLD 2/25/90 Bruce Sanders June 14, 1990

16:29 BS 6/14/90
~~4:29~~ We moved the sample location lightly to a place where we did not see readings above background on the VA or HNu.

:45 RI P14/S13 Picture of SED 2 being collected from Cranes Creek

S RI P15/S14 Picture of the collection of soil

RLLeff 9/25/90 Bruce Sanders June 14, 1990

16:22 BS 6/14/90
~~4:22~~ Heading toward SED2 SW2 to take upstream Cranes Creek Sample

16:27 BS 6/14/90
~~4:27~~ At the location for SED2 SW2. The HNu battery went and OVA reading of 20ppm

16:30 BS 6/14/90
~~4:30~~ Checking the PH of the water for upstream sample. PH will take 10 drops to get PH to 2

16:35 BS 6/14/90
~~4:35~~ Taking picture 13 of SW2 sample being ~~colled~~ collected from Cranes Creek. BS 6/14/90 Jennifer Leahy collecting sample BS 9/24/90

16:40 BS 6/14/90
~~4:40~~ Collecting a sample for Mr. Piazza SED 2 SW2 at same location.

16:45 BS 6/14/90
~~4:45~~ Begin collecting SED 2 Sample from Cranes Creek. We also collected one for Mr. Piazza SED 2. Jennifer Leahy collect sample. 9/24/90 BS

16:50 BS 6/14/90
~~4:50~~ Sample SW2 SED2 180° degrees from yellow hook Gas line at a distance of 23 feet.

16:52 BS 6/14/90
~~4:52~~ We are leaving SED 2 and SW2 heading back to command post.

17:00 BS 6/14/90
~~5:00~~ Getting things prepared for soils 1-6

17:10 BS 6/14/90
~~5:10~~ Heading for Soil 5 for a sample near PCBs tank.

17:20 BS 6/14/90
~~5:20~~ At sampling location for S-5. This is in front of a tank allegedly containing PCB's.

~~5:25~~ Taking sample S-5 from surface

17:25 BS 6/14/90 Soil RLLeff 9/25/90 Bruce Sanders June 14, 1990

17:25 T[illegible]P16/515 Picture taken during the collection of soil sample number 4.

7:50 R1 P17/516 Picture of soil sample 3 being collected.

7:55 R1 P18/517 Picture of the duplicate il sample S-6 the duplicate of S-3.

[illegible] 9/25/90

Bruce Sanders June 14, 1990

17:30 6/14/90

~~5:30~~ Taking sample S-5 for Mr Piazza Measurement from well to GW at 15° degrees and ~~32'1" feet~~. 32 feet 1 inch.

for Tilcon collecting sample. 9/21/90 BS

Soil texture tan and brown with rocky fine grained. No reading above background OVA, HNu.

17:28 BS 6/14/90

~~5:28~~ ~~5:28~~ Done and heading toward sample S-4 BS 6/14/90 which is near two above ground tanks. No readings above background OVA or HNu or Mini Rad.

17:35 BS 6/14/90 Jennifer Leahy collecting sample. 9/21/90 BS

~~5:35~~ Began collecting sample S-4 at Tank 4. The soil is black in color.

17:37 BS 6/14/90

~~5:37~~ Pole with no markings is 320° from sample and 170° from fence post. with a distance of 57 feet. Took sample S-4 for Mr. Piazza This is on the east end of the site just south of monitoring well 3.

17:42 BS 6/14/90

~~5:42~~ Arrive at sample S-3 location which has BS 6/14/90 ~~5:40~~ a duplicate of S-6 at the same location. No readings on OVA or HNu above background or on Mini Rad meter.

17:50 6/14/90

~~5:50~~ Taking sample S-3 at location near southeast end of site. ~~BS~~ We are also taking the duplicate S-6 and sample S-3 for Mr. Piazza

for Tilcon collecting sample S-3. 9/21/90 BS

[illegible] 9/25/90

Bruce Sanders June 14, 1990

Photo Reconnaissance

Date	Time	Roll	Picture Slide #	Description	Photographer
6/13/90	11:42	1	1/1	Picture facing ~~facing~~ facing east of pit and oily sludge BS 6/14/90	BS
6/13/90	11:43	1	2 Picture	Picture of oily sludge sample with Joe above east direction	BS
6/13/90	12:28	1	3/2	Joe Filosa taking sample 6/14/90 BS Picture of building containing copper sludge facing west.	BS
6/13/90	12:42	1	4/3	Picture facing west of SW7 taken by Joe Filosa	BS
6/13/90	13:44 ~~1:44~~ BS 6/14/90	1	5/4	Picture facing 320° of Cranes Creek area of SW4 Joe Filosa taking sample 6/13/90 BS	BS
6/13/90	BS 6/14/90 13:55 ~~1:55~~	1	6/5	Picture facing 300° of sample location SW4	BS
6/13/90	BS 6/14/90 14:07 ~~2:07~~	1	7/6	Picture facing 60° of sample location SED 4 Joe Filosa taking sample 6/13/90 BS	BS

BS 6/14/90

Bruce Sanders
June 14, 1990

Time	Roll	Picture Slide #	Description	Photographer
6/12/90 2:40 14:40 AD 6/11/90	1	8/7	Facing 225°, picture of sample SW3	BS
6/12/90 2:55 14:55 AD 6/11/90	1	9/8	Jennifer Leahy collecting sample 9/11/90 AD Facing 225° picture of sample SED 3	BS
6/13/90 3:48 15:48 AD 6/11/90	1	10/9	Jennifer Leahy collecting sample 9/11/90 AD Facing 300° picture of beginning of Cranes Creek	BS
6/13/90 3:50 15:50 AD 6/11/90	1	11/10	Facing 340° picture of sample SW1	BS
6/13/90 4:00 16:00 AD 6/11/90	1	12/11	Joe Tiloca collecting sample 9/11/90 AD Facing 300° picture of sample SED 1	BS
6/13/90 4:35 16:35 AD 6/11/90	1	13/12	Joe Tiloca collecting sample 9/11/90 AD Facing 340° picture of sample for SW2	BS
6/13/90 4:45 16:45 AD 6/11/90	1	14/13	Jennifer Leahy collecting sample. 9/11/90 AD Facing 340° picture of sample for SED 2	BS
6/13/90 5:25 17:25 AD 6/11/90	1	15/14	Jennifer Leahy collecting sample 9/11/90 AD Facing 120° picture of S&S	BS
6/13/90 5:35 17:35 AD 6/11/90	1	16/15	Joe Tiloca collecting soil sample. 9/11/90 AD Facing 20° picture of sample 4	BS
		1/240	Jennifer Leahy collecting sample 9/11/90 AD	

Bruce Sanders June 14, 1990

Date	Time	Roll	Picture Slide #	Description	Photographer
6/13/90	5:50 17:50 BB drinks	1	17/16	Facing west picture of S-3 soil sample for Tilson collecting sample 9/21/90 BB	BB
6/13/90	5:55 BB drinks	1	18/17	Facing west picture of Duplicate S-6a for Tilson collecting sample 9/21/90 BB	BB
6/13/90	6:05 BB drinks	1	19/18	Facing 0° picture of S-2 for Tilson collecting sample 9/21/90 BB	BB
6/13/90	6:15 BB drinks	1	20/19	Facing 210° picture of Sample S1 for Tilson collecting sample 9/21/90 BB	BB

BB 6/13/90

Bruce Sanders
June 14, 1990

6/13/90 Arthur Kell 02-9004-27

8:05 R1 [redacted]/518 Picture of the soil sample number 2 being collected

9:15 R1 P20/519 Picture of the soil mple S-1 that was being collected.

TT 9/25/90 Bruce Sanders June 14, 1990

6/13/90 [redacted]

6:00 Distance 15 feet 3 inches at 200° [redacted]ward fence post near southea[redacted]d of site leaving for S-2 and MSI/MSD

18:02 AS 6/14/90

6:02 At sample location S-2, taking sample and an MS/MSD. The soil is black and supposedly sand blasting material. It is gritty.

6:08 Distance to east corner of building 21 is 36 feet and sample is 320° degrees to corner of building. We also are taking sample S2 for Mr. Pidgge. Jennifer Leahy collecting sample. 9/11/90 BS

12:10 At soil 1 sample near above ground tanks on west end of site. The tanks that is lying there is leaking.

18:15 BS 6/14/90

6:15 Taking soil sample 1 at tank in back of five white tanks. Collecting a sample for Mr. Piazza his S-1.

18:20 BS 6/14/90 Joe Filosa collecting sample. 9/11/90 BS

6:20 Corner of white building Jersey Overnite Express sample is 250° degrees from corner, at a distance of 45 feet. 3 inches.

18:30 BS 6/14/90

12:30 Finished sample's and heading to command post

18:30 BS 6/14/90

6:30 Cleaning and deconing all material.

18:56 BS 6/14/90

6:56 ~~Begonn~~ Beginning to load up cube truck.

19:15 BS 6/14/90

7:15 Dennis and I left the site

19:30 6/14/90 BS

7:30 We are at Federal Express. They will [illegible] samples collected

8:10 Back at the office.

20:30 BS 6/14/90 BS 9/25/90 Bruce Sanders June 14,

REFERENCE NO. 6

0033F
32-9004-17

NUS CORPORATION

II

0615

ARTHUR KILL URBAN INDUSTRIAL PARK
02-9004-17
TDD MANAGER-B. SANDERS
LOGBOOK #0615
JUNE 11, 1990

GUIDANCE FOR PROPER USE OF LOG BOOKS

Purpose

- Serves to document onsite activities and be understandable to an outside reader.
- Provides the basis for later written reports.
- Used as an evidentiary document and may be used in legal proceedings.

Distribution

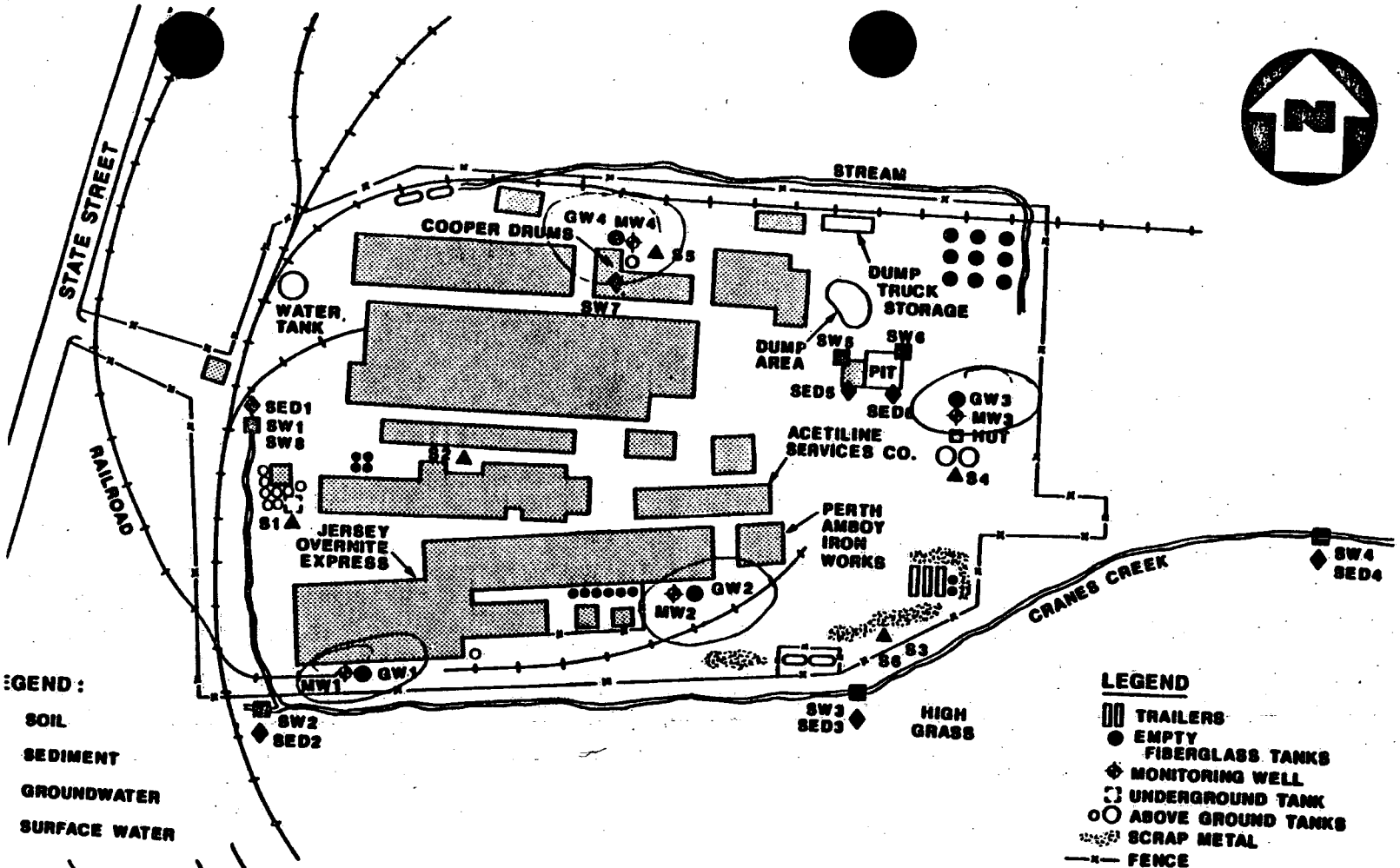
- Controlled by the project manager and distributed as appropriate to personnel designated by the project manager.

General Procedures

- Record information in language which is objective and factual.
- Use ink. Waterproof ink is recommended.
- Leave first two pages blank. They serve as space for the table of contents to be added when the log book is complete.
- The first written page identifies the date, time, TDD number, site name, location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- Start on a new page at the start of each day's field activities. This page should identify date, time, TDD number, site name and location, NUS personnel and their responsibilities, other non-NUS personnel and observed weather conditions.
- List all persons leaving or entering the site.
- Information recorded in the log book should be in chronological order.
- Sign and date each page, log all entries using a 24 hour clock. Entries should be time logged every 15 to 20 minutes.
- Corrections are to be lined through and initialed. No erroneous entries are to be made illegible.
- Include a sketch or map of the site which can be used to locate photo or sample locations. Note landmarks, indicate north, and if possible include an approximate scale. Include as many sketches and maps as necessary.
- A person not present when field activities were being documented should read each completed page, and countersign and date when satisfied that the written notes are understandable.

Specific Field Activities To Be Documented

- Record the who, what and where of field activities.
- Indicate sampling and photo locations on a site sketch or map.
- As part of the chain of custody procedure, recorded in-situ sampling information must include sample number, date, time, sampling personnel, sample type, designation of sample as a grab or composite, and any preservative used.
- Information for in-situ measurements must include a sample ID number, the date, time, and personnel taking measurements. Pertinent in-situ measurements include but are not limited to pH, temperature, conductivity, flow measurements, continuous air monitoring measurements, and stack gas analyses. If related calculations are necessary they must be checked and signed by a second team member.
- Create a photo log to document photos taken in the field. These must include date, time, photographer, sample number, roll number, frame number, photo ID number and description. Indicate if the film is for slides or prints in the column for roll number. Photo ID numbers can be added at the time the photo log is assembled.
- Record course health and safety measures used. Describe observed potential hazards to health and safety. Document the level of protection used, decontamination procedure used and specific decontamination solutions.
- When sampling is complete, a summary log is to be completed. It must include date, time, sample number, description, field book reference page, and the number and date of the chain of custody form on which the sample is listed. Indicate whether or not the sample was split.
- Record details regarding relevant information obtained during onsite interviews. Include names of persons interviewed, the interest group represented, their address and phone number.
- Record any other relevant information which would be relevant to generate at a later date.



EGEND :

SOIL

SEDIMENT

GROUNDWATER

SURFACE WATER

LEGEND

- TRAILERS
- EMPTY FIBERGLASS TANKS
- MONITORING WELL
- UNDERGROUND TANK
- ABOVE GROUND TANKS
- SCRAP METAL
- FENCE
- PROPANE TANKS
- DRUMS

6/13/90

K Campbell 6/13/90

SAMPLE LOCATION MAP

ARTHUR KILL URBAN INDUSTRIAL PARK, PERTH AMBOY, N.J.

NOT TO SCALE

FIGURE 2

NUS CORPORATION

6/13/90

K Campbell 6/13/90

6/13/90

Arthur Kill Urban Industrial Park
c/o Custom Distribution Services
1050 State Street
Perth Amboy NJ 08862
6/13/90
Site Inspection

DHG 6/13/90

TABLE OF CONTENTS

PP 3-14 Site Inspection
PP 15 Photographic Log

6/13/90 F Cardell 6/13/90

6/13/90

NUS Field Personnel:

Bruce Sanders	(BS)		6/13/90	Site Manager
John Harrison	(JH)		6/13/90	Asst Site Mgr
Dennis Foerter	(DF)		6/13/90	SMO
Bob Scerbo	(BSc)		6/13/90	Sampler
Jennifer Leahy	(JL)		6/13/90	Sampler
Gary Rojek	(GR)		6/13/90	SSO
Joe Filosa	(JF)		6/13/90	Sampler
Phil Ciccillo	(PC)		6/13/90	Sampler

The workplan and QA requirements were discussed and read by above listed on-site personnel.

Equipment Numbers:

OVA (m)	469784	
HNU (m)	469749	w/probe 469755
Chinon Camera	469774	
Chinon Camera	469757	
M-Scope	629777	
TLC Meter	689920	

SCBA Numbers:

428550
307173
629759

Users

John Harrison
Bob Scerbo
Phil Ciccillo

6/13/90

K. Campbell 6/13/90

Arthur Kill Outfall Industrial Park OR-9009-1P
6/13/90

Weather Conditions:

Mostly sunny, winds are 0-5 mph from south and temperature is 70°-81°

Instrument Background Levels: OVA - 0 ppm
HNU - 0 ppm

8:15 Arrive on Site

NOTE: This logbook is assigned to JH who will lead well sampling with BS and PC. This logbook will follow the all aspects of the well sampling team.
6/13/90

9:00 Setting up Decon

Note: All well locations JH will be back up on SCBA.

9:15 BS and PC deconing equipment

9:45 Equipment being prepped, truck lined with plastic

9:50 JH taking background readings

10:05 GR conducts H & S Tailgate Meeting

[illegible] 6/13/90 [illegible] 6/13/90

6/13/90

10[3] Arrive at GW 3, MW 3, MW 13

10[23] PC and BSe on Air

10[25] Cut Padlock with Bolt cutters

10[27] well opened, No readings above background on OVA or HNU in breathing zone for from well casing

Well GW 3, MW 13 Well Pump 1 in 26/2110-7

Depth to Water - 5 ft 2 inches } TOP OF CASING 2'3"

Depth of Well - 15 ft 1 inches

Diameter of well - 4 inches

Standing Water - 9 ft 9 inches

Volume to be purged ~~4.8~~ 18.9 gallons (3 volumes)

We will purge 20 gallons

10[35] PC and BSe off Air

Initial PH is 7

Initial Conductivity is 3.15 0.91

10[40] Purging using trash pump, water is dark with what appears to be a solvent sheen

PH is 6

Conduct 1.42

10[45] Water being purged readings of 10 ppm on OVA no readings on HNU ~~on well casing~~ 1ft of collar

Well is pumped dry, fast recharge

Depth to water is 5 ft 5 inches

10[5] We will Sample on Level B

6/13/90

K. Coughlin 6/13/90

6/13/90

11[illegible] BSee and PC on Air

Measurement from well is 5ft 5inches
depth to water
well is reduced and will sample

11[illegible] Start Sampling GW 3, MW3

BSee adding six drops of HCL for PH
PH is 2.0

11[illegible] R1 P1 S1 BSee collecting GW 3, MW 3
Water is mostly clear, however brownish tint is evident

11[illegible] BSee putting caps & casing in place

11[illegible] BSee and PC off Air

11[illegible] will Proceed to Command Post

11[illegible] Arrive at Decon
will prep and get equipment ready for next location

1[illegible] Arrive at GW1, MW1

6/13/90

11[40] Cut Padlock with cutters

11[45] B Sea and PC changing air tanks on SCBA's

11[46] B Sea and PC on Air

11[47] Well opened no readings above background on OVA or HNU

Well GW1, MW1 — well Permit Number 2C17108-5

Depth to water - 6 ft 9 inches
Depth of Well - 14 ft 3 inches — Top of 2 4 risers
Diameter of Well - 4 inches
Standing water - 7 ft 4 inches
Amount to be purged - 13.95 gallons
We will purge 14 gallons

11[50] B Sea and PC off Air

11[55] Start Purging with hand pump, water is orange ~~orange~~ and appearing to be unclear. No readings above background on OVA or HNU.

Initial PH - 6
Initial Conductivity - .94

12[00] Purged 14 gallons. No readings above background on OVA or HNU

12[05] B Sea and PC taking short break.

6/13/90

K. Cupelli 6/13/90

6/13/90

1 B. and RC setting up equipment (bailer, rope)

12[2] BS and RC taking stat level - extremely hot

12[2] Driving to B. Sandus location to drop off rope.

12[30] Back at well location GW1, MW1
Well is recharged to 6ft 7 inches

12[35] Start Sampling GW1, MW1
No readings above background on OVA or HNU
pH. 5
conductivity .85

To adjusting pH to 2, add eight drops of HCL will be added.

Pl, R2, S2
Bob Sterbo collecting GW1, MW1

Water is clear, no readings above background on OVA or HNU.

K. Condeli

10/13/90

12 BSee and PC packing up equipment and head back to the Command Post.

12:50 Arrive at Decon and replenish with equipment and boilers.

1:00 Arrive at GW2, MW2

1:05 BSee and PC on air. No readings above background on OVA or HNU in breathing zone on casing. Cutting padlock with bolt cutters.

Well GW2, MW2 — well Permit No. 261 7107-7

Depth to Water - 7 ft 11 inches
Depth of Well - 17 ft
Diameter of Well - 4 inches
Standing Water - 9 ft 1 inch
TOP of casing 3' 2"
TOTAL amount to purge 17.7 gallons
We will purge 18 gallons

1:15 BSee and PC off air

[illegible]

T. Campbell [illegible]

6/17/90

Start purging with trash pump, water is brown and unclear

Initial PH 5
Initial Conditivity .760

No readings above background on OVA or HNU in breathing zone or casing of well.

3:35 Pump turned off, 3, 3-gallon buckets filled. Will wait for well to recharge. Well is pumped dry.
PH - 5
Conductivity - .720

3:20 Pump on, 1, 3-gallon bucket filled. Well is pumped dry.

3:40 Pump on, Well is pumped dry for 3rd time.

3:45 BSa and PC taking break
Well is recharged to 7 ft 10 inches

3:50 Start Sampling, GW2, MW2
No readings above background on OVA or HNU in breathing zone or casing of well.
PH - 5
Conductivity - .720

R. Cordell

6/12/90

13 Adjusting PH, adding 6 drops HCL for PH of 2.

14:00 R1 P3, S3 Phil Ciccolello collecting GW2, MW2
Water is generally clear, with some sand + sediment.

14:13 Cleaning area, Proceed back to Command Post

14:15 Arrive at Decon

14:20 Decoming & boiler for use at next well.

14:30 Depart Decon for GW4, MW4

14:40 Arrive at GW4, MW4

14:45 Setting up equipment
BSee and PC changing air tanks on SCBAs

R Capitelli 6-12-90

6/13/90

BSu and PC on AIR
Cutting Padlock with Bolt Cutters
1452 well opened. No readings above background on OVA or HNU.

Well GW 4, MW 4 Well Permit No. 2612109-3

Depth to Water - 9 ft 3 inches
Depth of Well - 16 ft 3 inches
Diameter of Well - 4 inches
Standing Water - 7 ft
} TOP OF CASING 2'8"

Amount to be purged 13.74 gallons
We will purge 14 gallons

1458 BSu and PC off Air
HNU battery is dead. will continue with OVA.

1500 SH will leave well GW 4 MW 4 and proceed to GW 3 area to pick up samples from Bruce Sanders Crew. to transport to Decon.

1505 Arrive at Decon

1510 Arrive at GW 4. MW 4

Start Purging water. No readings above background on OVA ~~on HNU~~, JR 6/13/90
Water is muddy and appears to have an oily sheen.
Well is pumped dry. 2, 3 gallon buckets filled
No readings above background ~~[illegible]~~ JR 6/13/90

9/25/93

6/13/90

16 R1 P4, S4
Phil Cicalello, collecting Sample GW, MW4

16[25] Water is basically clear, with a orange tint

16[35] Bruce and PC closing up area around GW4, MW4

16[40] Proceed to Command Post

16[45] Arrive at Decon

16[50] The team has finished well sampling and now continue to Decon. Bruce Sanders Crew still has to take 3 Soil Samples, and will continue.

Note: All Padlocks were cut with Bolt Cutters and replaced with new locks after each sampling well. Keys were given to Mr Pazza. (PRP)

P. Campbell

6/13/90

Photographic Log

All photographs taken by John Harrison

Date	Time	Picture Number	Description
6/13/90	1110	R1, P1, S1	Bob Scarbo collecting GW3
6/13/90	1240	R1, P2, S2	Bob Scarbo collecting GW1
6/13/90	1400	R1, P3, S3	Phil Cicolello collecting GW 2
6/13/90	1615	R1, P4, S4	Phil Cicolello collecting GW 4

K Campbell 6/13/90

REFERENCE NO. 7

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Arthur Kill Urban Industrial Park 02-2004-17 DATE: December 14, 1990

FROM: JOHN C. RIECKHOFF COPIES:

SUBJECT: Tank volume calculations - Estimates based on field and photographic observations

REFERENCE:

Volume = $(\pi R^2 \times L) \times 7.4$ gal/cu ft

(1) 12 tanks in tank farm 10-15 diameter 25 ft tall

$[(3.1415927)(6.25)^2 \times 25] \times 7.48 \approx 2.77{,}000$ gallons

(2) 1 abandoned tank above dump spot ≈ 72" long 36" diameter

$[(3.1415927)(18)^2 \times 6] \times 7.48 \approx 300$ gallons

(3) 2 abandoned tanks on cradles 12' diameter 18' length

$[(3.1415927)(6)^2 \times 18] \times 2 \approx 30{,}000$ total gallons

(1) Size from field observations

(2) Size from photograph during field observation - estimated

(3) Size also from photograph during field observation - estimated from height of NUS field personnel nearby and measured with a divider on photograph

REFERENCE NO. 8

NUS CORPORATION
SUPERFUND DIVISION

PROJECT NOTES

TO: Arthur Kill Urban Industrial Site

DATE: 12/14/90

FROM: John D Ruckhoff

COPIES:

SUBJECT: List of tenants on Arthur Kill site

REFERENCE:

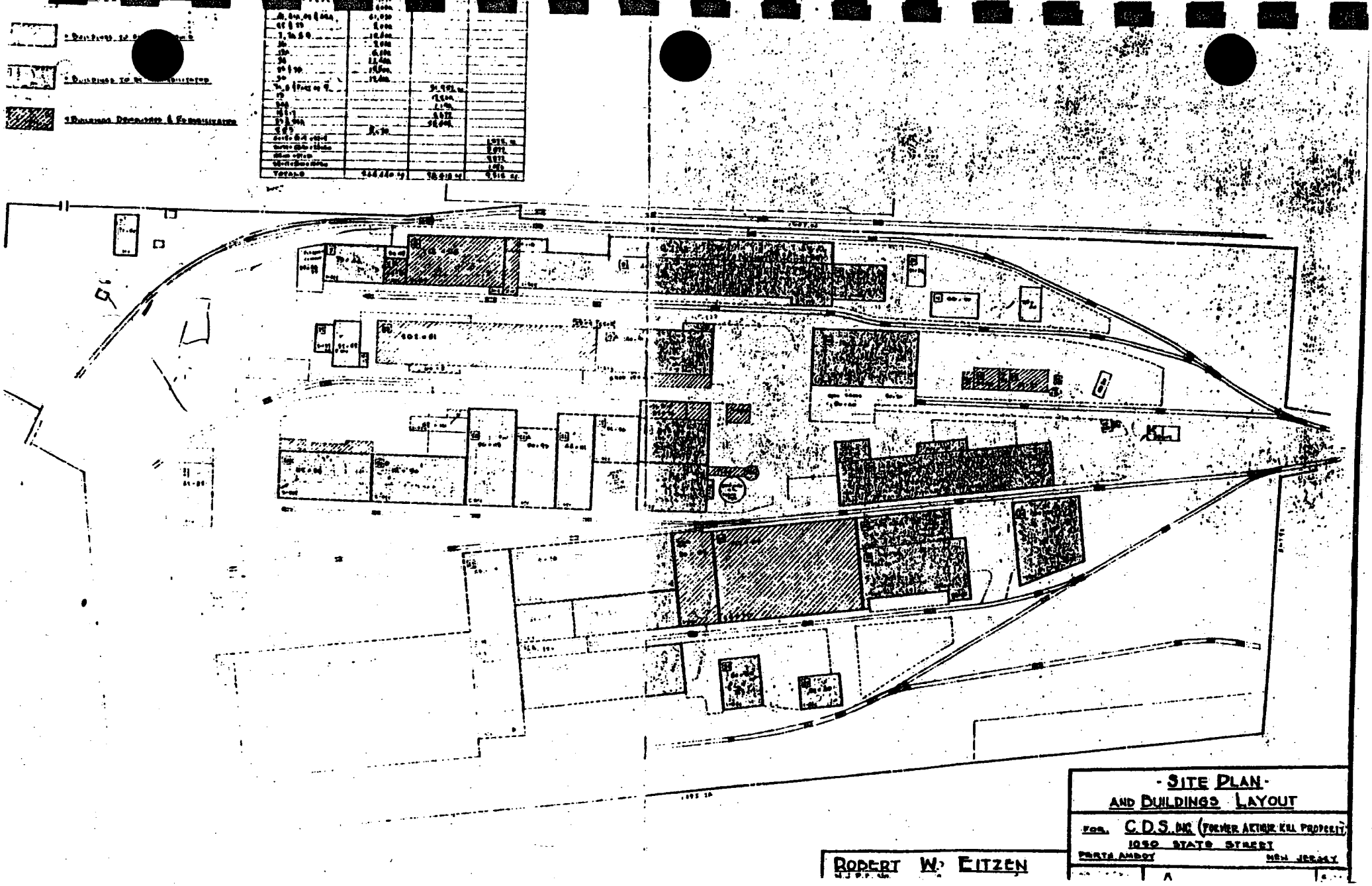
The following list of tenants currently leasing space in the Arthur Kill Urban Industrial Site was received from C. Piazza during site activities

J D Ruckhoff

RECAP OF TENANTS
CUSTOM DISTRIBUTION SERVICES, INC.
1050 STATE STREET
PERTH AMBOY, NEW JERSEY

A & D Industrial & Marine Repair, Inc.	Buildings 20,20B,20C	Repair and Machine Shop
A & S Trucking	Parking	Parking Empty Dump Truck
Acetylene Supply Co.	Building 46	Manufacture Acetylene & Charge Acetylene Cylinders
Acosta, Ralph	Parking	Parking Empty Dump Truck
Adler, Joseph & Co., Inc.	Buildings 34,34A	Stainless Steel Dealer
American Barns	Building 9	Light Wood Fabricating
Cardinal Fiberglass Industries	Buildings 9,10	Manufacture Fiberglass Tanks
Collazo, L.S. Trucking	Parking	Parking Empty Dump Truck
Custom Distribution Services, Inc.	Building 20C	Maintenance Shop
Dany Trucking	Parking	Parking Empty Dump Truck
E.F. Trucking	Parking	Parking Empty Dump Truck
Felipe, Juan	Parking	Parking Empty Dump Truck
Fernandes, Roberto F.	Parking	Parking Empty Dump Truck
Garcia, Jose	Parking	Psrking Empty Dump Trucks
Jersey Overnight Express, Inc.	Building 41	Warehouse for General Merchandise, Including Chemicals
Midway, Inc.	Buildings 21,21A	Mechanical Contractor
Mir, Carlos & Alfonso, George	Parking	Parking Empty Dump Truck
P & G Industrial Services	Building 22	Welding and Mechanical Contractor
Perth Amboy Iron Works, Inc.	Buildings 31,40	Light Steel Work and Vehicle Repair Facility
Saavedra, Luis	Parking	Parking Empty Dump Truck
~~Sanchez, Peter~~	~~Parking~~	~~Parking Empty Dump Truck~~
Total Forklift	Building 2	Forklift Dealer
V & M Trucking	Parking	Parking Empty Tractor/ Trailer
Hernandez, Mario	Parking	Parking Empty Tractor/ Trailer
Atlantic Towing	Parking	Towing Service

3/6/90


SITE PLAN
AND BUILDINGS LAYOUT
FOR. C.D.S. INC. (FORMER ARTHUR KILL PROPERTY)
1050 STATE STREET
PERTH AMBOY
NEW JERSEY
ROBERT W. EITZEN

REFERENCE NO. 9

ERP No. D-MMS-A02224-00, Rating EO2, 1989 Central and Western Planning Areas Gulf of Mexico Outer Continental Shelf (OCS) Oil and Gas Sales No. 118 and 122, Lease Offerings offshore the coast of Alabama, Mississippi, Louisiana and Texas.

Summary

EPA expressed objections to the proposed action of unrestricted leasing in the Central and Western Gulf. EPA also expressed concern over the lack of any proposed mitigation for possible impacts to deep-water benthic communities. EPA also expressed concern that ozone modeling of the effect of offshore emission on onshore air quality be conducted.

ERP No. D-NPS-K61095-NV, Rating LO, Death Valley National Monument, General Management Plan, Implementation, Inyo and San Bernardino Counties, CA and Nye and Esmeralda Counties, NV.

Summary

[illegible]A expressed a lack of objections to [illegible]oposed management plan but [illegible]d that future multiple use activities (mining, campgrounds) will require an assessment of air quality, surface water and ground water impacts.

Final EISs

ERP No. F-COE-H30000-IA, Des Moines Recreational River and Greenbelt Area, Development, Operation and Maintenance, Des Moines River, Webster, Hamilton, Boone, Dallas, Polk, and Warren Counties, IA.

Summary

EPA has no objections to this project with the understanding that each unit of the project will be evaluated separately for NEPA compliance at a later date.

ERP No. F-FHW-F40290-WI, WI-TH-83 Improvement, I-94 to Cardinal Lane/WI-TH-16, Funding and 404 Permit, Waukesha County, WI.

Summary

EPA has no objection to this project, long as a minimum of 0.8 acre of additional wetlands are created.

(Note: The above summary should have [illegible]ppeared in the 6-10-88 Federal Register [illegible].)

[illegible]P No. F-USN-C85041-NJ, Colts Neck, Naval Weapons Station Earle Family Housing Development, Construction, Mammouth County, NJ.

Summary

EPA's concern regarding the location of the mitigation site has been addressed in this document. In addition, information within the document clarified our questions with respect to the delineation of wetlands, and the point of discharge of the wastewater treatment plant. Accordingly, EPA has no unresolved concerns regarding the implementation of the project as proposed.

ERP No. F-USN-D84005-VA, Empress II Operation, Electromagnetic Pulse, Radiation Environment Simulator for Ships, Chesapeake Bay (West of Bloodsworth Island) and Atlantic Ocean (Virginia Capes Operating Area), off the Coast of VA.

Summary

EPA expressed a preference for the proposed site and requested a thorough monitoring program for the project.

(Note: The above summary should have appeared in the 6-17-88 Federal Register Notice.)

Dated: June 21, 1988.

William D. Dickerson,

Deputy Director, Office of Federal Activities.

[FR Doc. 88-14353 Filed 6-23-88; 8:45 am]

BILLING CODE [illegible]

[ER-FRL-3404-8]

Environmental Impact Statements; Availability; Weekly Receipts

Responsible Agency: Office of Federal Activities, General Information (202) 382-5073 or (202) 382-5075. Availability of Environmental Impact Statements Filed June 13, 1988 Through June 17, 1988. Pursuant to 40 CFR 1506.9.

EIS No. 880189, Draft, BLM, AZ, San Pedro River Riparian Resource Management Plan, Implementation, San Simon Resource Area, Safford District, Cochise County, AZ, Due: September 21, 1988, Contact: Jerrold Coolidge (602) 428-4040.

EIS No. 880190, Draft, DOE, ND, Charlie Creek-Belfield 345 kV Transmission Line Project, Construction, Operation and Maintenance, Implementation, Billings, Stark, McKenzie and Dunn Counties, ND, Due: August 8, 1988, Contact: James D. Davis (406) 657-5523.

EIS No. 880191, Draft, SCS, MD, East Yellow Creek Watershed, Soil Erosion and Flood Damage Reduction Plan, Funding and Implementation, Sullivan, Linn and Chariton Counties, MO, Due: August 8, 1988, Contact: Russell C. Mills (314) 875-5214.

EIS No. 880192, Draft, NPS, AK, Denali National Park and Preserve, Wilderness Recommendations, Designation or Nondesignation, AK, Due: August 22, 1988, Contact: Linda Nebel (907) 257-2654.

EIS No. 880193, Draft, AFS, WY, Little Bighorn River, Wild and Scenic River Study, National Wild and Scenic Rivers System, Designation, Bighorn National Forest, Sheridan County, WY, Due: September 22, 1988, Contact: Arthur Bauer (307) 672-6751.

EIS No. 880194, Draft, USN, PA, U.S. Navy Girard Point Site, Sale to the Philadelphia Muncipal Authority for the Establishment of a Steam Generation Facility that Produces Steam for Purchase by the U.S. Navy, City of Philadelphia, PA, Due: August 12, 1988, Contact: Kenneth Petrone (215) 897-6431.

EIS No. 880195, Final, FHW, PA, PA-23/New Holland Avenue/LR-1124, Section 801 Relocation, US 30 to Walnut and Chestnut Streets, Funding and 404 Permit, Manheim, East Lampeter and Lancaster Townships and the City of Lancaster, Lancaster County, PA, Due: July 25, 1988, Contact: Philibert A. Quellet (717) 782-4422.

EIS No. 880196, Draft, FRC, REG, Regulations Governing Independent Power Producers (RM88-4-000) and Regulations Governing Bidding Programs (RM88-6-000), Implementation, Due: August 15, 1988, Contact: Gilda Rodriquez (202) 357-0155.

EIS No. 880197, Draft, SCS, MS, Whites Creek, Watershed Protection and Flood Prevention Plan, Funding, Possible 404 Permit and Implementation, Webster County, MS, Due: August 8, 1988, Contact: L. Peter Heard (601) 965-5208.

EIS No. 880198, Draft, EPA, FL, CF Mining Complex II, Open Pit Phosphate Mine and Beneficiation Plan, Construction and Operation, NPDES and 404 Permits, Hardee County, FL, Due: August 8, 1988, Contact: Maryann Gerber (404) 347-3776.

Dated: June 21, 1988.

William D. Dickerson,

Deputy Director, Office of Federal Activities.

[FR Doc. 88-14352 Filed 6-23-88; 8:45 am]

BILLING CODE [illegible]

[FRL-3340-F]

New Jersey Coastal Plain Aquifer System, New Jersey Sole Source Aquifer Final Determination

AGENCY: U.S. Environmental Protection Agency.

ACTION: Notice.

SUMMARY: Notice is hereby given that, pursuant to section 1424(e) of the Safe Drinking Water Act, the Administrator of the U.S. Environmental Protection Agency (EPA) has determined that the

New Jersey Coastal Plain Aquifer System, underlying the New Jersey Coastal Plan Area, is the sole or principal source of drinking water for the Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Salem, Cumberland, Cape May and portions of Mercer and Middlesex Counties, New Jersey, and that the acquifer, if contaminated, would create a significant hazard to public health. As a result of this action EPA will review Federally-assisted projects (projects which receive Federal financial assistance through a grant, contract, loan guarantee, or otherwise) proposed for construction in a project review area which includes the New Jersey Coastal Plain Area and a portion of the aquifer streamflow source zone. The streamflow source zone includes upstream portions of the Delaware River Basin in the States of Delaware, New Jersey, New York and Pennsylvania. Federally-assisted projects will be reviewed to ensure that they are designed and constructed so that they do not create a significant hazard to public health. Projects outside of the project review area but within the streamflow source zone will be reviewed if they require an Environmental Impact Statement (EIS).

DATES: This determination shall be promulgated for purposes of judicial review at 1:00 P.M. Eastern Time on July 7, 1988. This determination shall become effective on August 8, 1988.

ADDRESSES: The data on which these findings are based, detailed maps of the New Jersey Coastal Plain Area and the project review area, a compilation of public comments and the Agency's response to those comments, are available to the public and may be inspected during normal business hours at the U.S. Environmental Protection Agency, Water Management Division, 26 Federal Plaza, New York, New York 10278. In addition, copies of a map showing the designated area and a responsiveness summary to public comment are available upon request.

FOR FURTHER INFORMATION CONTACT: John Malleck, Chief, Office of Ground Water Management, Water Management Division, 26 Federal Plaza, New York, New York 10278 (212) 264-[illegible]

SUPPLEMENTARY INFORMATION: Notice is hereby given that pursuant to section 1424(e) of the Safe Drinking Water Act (42 U.S.C. 300f, 300h-3(e), Pub. L. 93-523), the Administrator of the U.S. Environmental Protection Agency (EPA) has determined that the New Jersey Coastal Plain Aquifer System, underlying the New Jersey Coastal Plain [illegible] drinking water for the Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Salem, Cumberland, Cape May and portions of Mercer and Middlesex Counties, New Jersey. Pursuant to section 1424(e), Federally-assisted projects proposed for construction in the New Jersey Coastal Plain Area and the project review area within portions of its streamflow source zone will be subject to EPA review. The streamflow source zone for the New Jersey Coastal Plain Aquifer System includes upstream portions of the Delaware River Basin in the States of Delaware (New Castle County), New Jersey (Mercer-part, Hunterdon-part, Sussex-part, and Warren Counties), New York (Delaware, Orange, Sullivan and Ulster Counties), and Pennsylvania (Berks-part, Bucks, Carbon-part, Chester-part, Delaware, Lackawanna-part, Lancaster, Lehigh, Luzerne-part, Monroe Montgomery, Northampton, Philadelphia, Pike, Schuykill and Wayne Counties). The project review area includes that portion of the streamflow source zone which lies within two miles of the Delaware River in the States of New Jersey (in Mercer, Hunterdon, Sussex and Warren Counties), Delaware (in New Castle County), Pennsylvania (in Delaware, Philadelphia, Bucks, Monroe, Northampton, Pike and Wayne Counties) and New York (in Delaware, Orange and Sullivan Counties).

I. Background

Section 1424(e) of the Safe Drinking Water Act states: (e) If the Administrator determines, on his own initiative or upon petition, that an area has an aquifer which is the sole or principal drinking water source for the area and which, if contaminated, would create a significant hazard to public health, he shall publish notice of that determination in the Federal Register. After the publication of any such notice no commitment for Federal financial assistance (through a grant, contract, loan guarantee, or otherwise) may be entered into for any project which the Administrator determines may contaminate such aquifer through a recharge zone so as to create a significant hazard to public health, but a commitment for Federal financial assistance may, if authorized under another provision of law, be entered into to a plan or design the project to assure that it will not so contaminate the aquifer.

On December 4, 1978 the Environmental Defense Fund, Inc. and the Sierra Club New Jersey Chapter petitioned the EPA Administrator to [illegible] Gloucester, Atlantic, Salem, Cumberland, Cape May and portions of Mercer and Middlesex Counties, New Jersey, constitute an area whose aquifer system is "the sole or principal drinking water source for the area and which, if contaminated, would create a significant hazard to public health." On March 21, 1979, EPA published the petition in the Federal Register. Public hearings on the petition request were held May 1, 15 and 17, 1979 in Lindenwold, Trenton, Freehold and Pomona, New Jersey. A May 19, 1983 Federal Register notice announced the availability of additional technical information and the extension of public comment period to July 15, 1983.

II. Basis for Determination

Among the factors to be considered by the Administrator in connection with the designation of an area under section 1424(e) are:

(1) Whether the aquifer is the area's sole or principal source of drinking water and (2) whether contamination of the aquifer would create a significant hazard to public health.

On the basis of information available to this Agency, the Administrator has made the following findings, which are the basis for the determination noted above:

(1) The New Jersey Coastal Plain Area depends upon the underlying Coastal Plain Aquifer System for seventy-five (75) per cent or more of its drinking water to serve 3 million people.

(2) Data show that the formations of the New Jersey Coastal Plain Area are hydrologically interconnected such that they respond collectively as an interrelated aquifer system.

(3) If the aquifer system were to become contaminated, exposure of the persons served by the system would constitute a significant hazard to public health.

(4) Alternative supplies capable of providing fifty (50) per cent or more of the drinking water to the designated area are not available at similar economic costs.

The New Jersey Coastal Plain Aquifer System is highly susceptible to contamination through its recharge zone from a number of sources, including but not limited to, chemical spills, leachate from landfills, stormwater runoff, highway de-icing, faulty septic systems wastewater treatment systems and waste disposal lagoons. The aquifer is also susceptible to contamination to a lesser degree from the same sources, through its streamflow [illegible]

completely and since the aquifer in this area is solely or principally relied upon for drinking water purposes by the population of the New Jersey Coastal Plain Area, contamination of the aquifer could pose a significant hazard to public health.

III. Description of the New Jersey Coastal Plain Area Aquifer System, Its Recharge Zone and Its Streamflow Source Zone

The New Jersey Coastal Plain Aquifer System consists of a wedge-shaped mass of unconsolidated sediments composed of clay, silt, sand and gravel. The wedge thins to a feathered edge along the Fall Line and attains a thickness of over 6,000 feet at the tip of Cape May County, New Jersey.

These sediments range in age from Cretaceous to Holocene and can be classified as continental, coastal or marine deposits. There are five major aquifers within the Coastal Plain Aquifer System. They are the Potomac-Raritan-Magothy Aquifer System, Englishtown Aquifer, Wenonah-Mount Laurel Aquifer, Kirkwood Aquifer and the Cohansey Aquifer. Natural recharge to the New Jersey Coastal Plain Aquifer System occurs primarily through direct precipitation on the outcrop area of the geologic formations. A smaller component of natural recharge to the deeper layers of the system occurs by vertical leakage from the upper layers. This accounts for a small percentage of the total amount of recharge; however, over a large area and a long period of time the amount of water transmitted can be significant.

The New Jersey Coastal Plain Aquifer discharges to the surface through streams, springs and evapotranspiration. Many streams ultimately flow into bays or directly into the ocean. Development of the ground-water reservoir as a water supply source constitutes another discharge component which today accounts for a significant portion of discharge from the overall system. In certain areas (e.g. along the Delaware River) heavy pumping has caused a reversal in the normal discharge from the aquifer (Raritan-Magothy) such that the surface stream (Delaware River) now recharges the aquifer. This phenomenon implies that, in addition to the New Jersey Coastal Plain Area, the Delaware River Basin within Delaware, New Jersey, Pennsylvania and New York must be regarded as a streamflow source zone (an upstream headwaters area which drains into a recharge zone), which flows into the Coastal Plain Area.

IV. Information Utilized in Determination

The information utilized in this determination includes the petition, written and verbal comments submitted by the public, and various technical publications. The above data are available to the public and may be inspected during normal business hours at the U.S. Environmental Protection Agency, Region II, Water Management Division, 26 Federal Plaza, New York, New York 10278.

V. Project Review

When the EPA Administrator publishes his determination for a sole or principal drinking water source, no commitment for Federal financial assistance may be may if the Administrator finds that the Federally-assisted project may contaminate the aquifer through a recharge zone so as to create a significant hazard to public health . . . Safe Drinking Water Act section 1424(e), 42 U.S.C. 300h-3(e). In many cases, these Federally-assisted projects would also be analyzed in an "Environmental Impact Statement" (EIS) under the National Environmental Policy Act (NEPA), 42 U.S.C. 4332(2)(C). All EISs, as well as any other proposed Federal actions affecting an EPA program or responsibility, are required by Federal law (under the so-called "NEPA/309" process) [1] to be reviewed and commented upon by the EPA Administrator. Therefore, in order to streamline EPA's review of the possible environmental impacts on designated aquifers, when an action is analyzed in an EIS, the two reviews will be consolidated, and both authorities will be cited. The EPA review (under the Safe Drinking Water Act) of Federally-assisted projects potentially affecting sole or principal source aquifers, will be included in the EPA review (under the "NEPA/309" process) of any EIS accompanying the same Federally-assisted project. The letter transmitting EPA's comments on the final EIS to the lead agency will be the vehicle for informing the lead agency of EPA's actions under section 1424(e).

All Federally-assisted proposed projects will be reviewed, within the New Jersey Coastal Plain Area (Counties of Monmouth, Burlington, Ocean, Camden, Gloucester, Atlantic, Salem, Cumberland and Cape May, and portions of Mercer and Middlesex Counties, New Jersey (as delineated on maps included in the petition), and that portion of the streamflow source zone which lies within two miles of the Delaware River in the States of New Jersey (in Mercer, Hunterdon, Sussex and Warren Counties), Delaware (in New Castle County), Pennsylvania (in Delaware, Philadelphia, Bucks, Monroe, Northampton, Pike and Wayne Counties) and New York (in Delaware, Orange and Sullivan Counties) (as delineated on maps included in the public record). Outside the New Jersey Coastal Plain Area and further than two miles from the Delaware River in the streamflow source zone, only those Federally-assisted proposed projects requiring the preparation of an EIS will be reviewed. The Agency has chosen a two-mile limit for the project review area along the Delaware River based on the climate and hydrologic setting of the area. The two-mile distance is consistent with the two-mile review radius included in the EPA guidelines for Ground-Water Classification and is protective of human health.

VI. Summary and Discussion of Public Comments

There has been much controversy over the possible designation of this aquifer system. The majority of the comments from the original 1979 public hearings were in direct opposition to such a designation. More than half of all responses received were against designation. Several commenters felt constrained by the original comment period and thereby requested an extension. EPA complied with this request on two occasions, once by announcing at the four public hearings it held throughout the area under consideration that the agency had extended the formal comment period from May 14, 1979, to December 31, 1979, and again in a May 19, 1983 Federal Register Notice that announced the availability of additional information and extension of the public comment period to July 15, 1983. Although a number of ground-water protection measures are available at the Federal, State and local level, none of these, either individually or collectively, permit EPA to act as directly as would a sole source aquifer designation in the review and approval of Federally-assisted projects. In addition, EPA feels that the sole source project review process will foster integration rather than duplication of environmental review efforts. Memoranda of Understanding have been negotiated with various Federal agencies with the purpose of streamlining the review process and minimizing project delays. Most of the commenters supported

[1] 42 U.S.C. § 7609 requires EPA to conduct this review. The "309" in a "NEPA/309" derives from the original source of this general requirement: Section 309 of the Clean Air Act.

designation would be a duplication of efforts already existing on the state and local levels. Some commenters felt that a sole source aquifer designation would give EPA the power to reject any applications for Federally-funded projects indiscriminately and to delay any project underway. Another main concern of many commenters was that a designation would cause a strong negative economic impact on the area in question and curtail needed development, thus eliminating jobs. EPA is sympathetic to the concerns of the commenters; however, the Agency feels that a sole source aquifer designation would not interfere with economic development. Federal financial assistance will be withheld only in those instances where it is determined that a proposed project may contaminate the aquifer so as to create a significant hazard to public health and no acceptable remedial measures are available to prevent the potential hazard.

Dated: June 16, 1988.

Lee M. Thomas,

Administrator.

[Doc. 88-14283 Filed 6-23-88; 8:45 am]

BILLING CODE 6560-50-M

[OPTS-59045; FRL-3404-5]

Toxic and Hazardous Substances; Certain Chemicals Premanufacture Notices

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: Section 5(a)(2) of the Toxic Substances Control Act (TSCA) requires any person who intends to manufacture or import a new chemical substance to submit a premanufacture notice (PMN) to EPA at least 90 days before manufacture or import commences. Statutory requirements for section 5(a)(1) premanufacture notices are discussed in the final rule published in the Federal Register of May 12, 1983 (48 FR 21722). In the Federal Register of November 12, 1984 (49 FR 46066) (40 CFR 723.250), EPA published a rule which granted a limited exemption from certain PMN requirements for certain types of polymers. Notices for such polymers are reviewed by EPA within 21 days of receipt. This notice announces receipt of nine such PMNs and provides a summary of each.

DATES: Close of Review Periods:

Y 88-192, 88-193—June 5, 1988.
Y 88-194—June 2, 1988.
Y 88-195—May 17, 1988.
Y 88-196—June 8, 1988.
Y 88-197—June 14, 1988.
Y 88-198—June 16, 1988.
Y 88-199—June 10, 1988.
Y 88-200—June 23, 1988.

FOR FURTHER INFORMATION CONTACT: Stephanie Roan, Premanufacture Notice Management Branch, Chemical Control Division (TS-794), Office of Toxic Substances, Environmental Protection Agency, Rm. E-611, 401 M Street SW., Washington, DC 20460 (202) 382-3725.

SUPPLEMENTARY INFORMATION: The following notice contains information extracted from the non-confidential version of the submission provided by the manufacturer on the PMNs received by EPA. The complete non-confidential document is available in the Public Reading Room NE-G004 at the above address between 8:00 a.m. and 4:00 p.m. Monday through Friday, excluding legal holidays.

Y 88-192

Manufacturer. Confidential.
Chemical. (G) Hydroxy function acrylic resin.
Use/Production. (S) Coatings. Prod. range: Confidential.

Y 88-193

Manufacturer. Confidential.
Chemical. (G) Polyurethane resin.
Use/Production. (S) Coating. Prod. range: Confidential.

Y 88-194

Manufacturer. Sybron Chemicals Inc.
Chemical. (G) Copolymer of aliphatic esters of 2-propenoic acid with homocyclic and heterocyclic aromatic vinyl compounds, reaction production wiyh aliphatic polyamine.
Use/Production. (G) Waste and process water purification. Prod. range: Confidential.

Y 88-195

Manufacturer. Confidential.
Chemical. (G) Dibasic acid polyol polyester.
Use/Production. (G) Used in coatings. Prod. range: Confidential.

Y 88-196

Manufacturer. Confidential.
Chemical. (S) Rosin, dicyclopentadiene, dimer fatty acid polymer.
Use/Production. (S) Printing ink vehicles. Prod. range: 3,000,000-3,700,000 kg/yr.

Y 88-197

Manufacturer. Reichhold Chemicals, Inc.
Chemical. (G) Sunflower oil alkyd.
Use/Production. (S) Architectural trade sales coating. Prod. range: Confidential.

Y 88-198

Manufacturer. Confidential.
Chemical. (G) Aliphatic polyester urethane.
Use/Production. (G) Coatings. Prod. range: Confidential.

Y 88-199

Manufacturer. C.J. Osborn.
Chemical. (G) Polyester.
Use/Production. (S) Pigmented and clear finish. Prod. range: Confidential.

Y 88-200

Manufacturer. Confidential.
Chemical. (G) Styrene/acrylic copolymer.
Use/Production. Coatings and inks. Prod. range: Confidential.

Date: June 13, 1988.

Steve Newburg-Rinn,

Acting Chief, Public Data Branch, Information Management Division, Office of Toxic Substances.

[FR Doc. 88-14282 Filed 6-23-88; 8:45 am]

BILLING CODE 6560-50-M

FEDERAL COMMUNICATIONS COMMISSION

Public Information Collection Requirement Submitted to Office of Management and Budget for Review

June 16, 1988.

The Federal Communications Commission has submitted the following information collection requirement to OMB for review and clearance under the Paperwork Reduction Act of 1980 (44 U.S.C. 3507).

Copies of this submission may be purchased from the Commission's copy contractor, International Transcription Service, (202) 857-3800, 2100 M Street NW., Suite 140, Washington, DC 20037. For further information on this submission contact Judy Boley, Federal Communications Commission, (202) 632-7513. Persons wishing to comment on this information collection should contact Yvette Flynn, Office of Management and Budget, Room 3235 NEOB, Washington, DC 20503, (202) 395-3785.

OMB Number: 3060-0023.
Title: Application for Restricted Radiotelephone Operator Permit—Limited Use.
Form Number: FCC 753.
Action: Revision.
Respondents: Individuals.

REFERENCE NO. 10

Selected Information from wells in
Groundwater Site Inventory
Data Base, sorted by USGS
Unique ID Number

1/9/89

GROUND WATER SITE DATA

DATA RELIABILITY (C3) [redacted]

SITE TYPE (C2) [redacted]

DATE OF CONSTRUCTION (C21) __ - __ - 19__ (month, day, year)

USE OF SITE (C23) [redacted]

SECONDARY USE OF SITE (C301) (see USE OF SITE) ☐ TERTIARY USE OF SITE (C302) (see USE OF SITE) ☐

USE OF WATER (C24)

A	B	C	D	E	F	H	I	J	K	M	N	P	Q	R	S	T	U	Y	Z
air cond.	bottling	commercial	dewatering	power	fire	domestic	irrigation	industrial (specify)	mining	municipal	other	public supply	aquaculture	recreation	stock	institutional	unused	observation	other

SECONDARY USE OF WATER (C25) (see USE OF WATER) ☐ TERTIARY USE OF WATER (C26) (see USE OF WATER) ☐

AQUIFER TYPE (C713)

U	N	C	M	X
unconfined single	unconfined multiple	confined single	confined multiple	mixed

PRIMARY AQUIFER (C714) ____

HOLE DEPTH (C27) ____ . __ WELL DEPTH (C28) ____ . __

SOURCE OF DEPTH DATA (C29)

A	D	G	L	M	O	R	S	Z
other gov't.	driller	geophysical log	log	measured	owner	other reliable	reporting agency	other

WATER LEVEL (C30) ____ . __

DATE WATER LEVEL MEASURED (C31) (Mandatory if C30, water level, has a value) __ - __ - 19__ (month, day, year)

METHOD OF WATER-LEVEL MEASUREMENT (C34)

A	B	C	E	G	H	L	M	N	R	S	T	V	Z
airline	analog	calibrated airline	automated	pressure gage	calibrated pressure gage	geophysical log	manometer	reliable gage	reliable	steel tape	electric tape	calibrated electric tape	other

STATUS FOR WATER LEVEL (C37)

D	E	F	G	H	I	J	N	O	P	R	S	T	V	W	X	Z
dry	reliably flowing	flowing	reliably flowing	reliably reliably flowing	injector idle	injector and monitor	measurement meaningless	obstruction	pumping	reliably surveyed	reliably pumping	reliably reliably surveyed	foreign sub-surface	well disc. travel	surface water effects	other

SOURCE OF WATER-LEVEL DATA (C33)

A	D	G	L	M	O	R	S	Z
other gov't.	driller	geophysical	log	measured	owner	other reliable	reporting agency	other

CONSTRUCTION DATA

RECORD TYPE (C754) [redacted] RECORD SEQUENCE NO. (C723) [redacted] DATE OF CONSTRUCTION (C60) __ - __ - 19__ (month, day, year)

NAME OF CONTRACTOR (C63) ____

SOURCE OF DATA (C64)

A	D	G	L	M	O	R	S	Z
other gov't.	driller	geophysical	log	measured	owner	other reliable	reporting agency	other

METHOD OF CONSTRUCTION (C65)

A	B	C	D	H	J	P	R	T	V	W	Z
air rotary	bored or augered	cable tool	dug	hydraulic rotary	jetted	air percussion	reverse rotary	trenching	driven	drive wash	other

TYPE OF FINISH (C66)

C	F	G	H	O	P	S	T	W	X	Z
perforated casing	gravel wrapped	gravel screen	horiz. gallery	open end	perf. or slotted	screen	sand point	walled	open hole	other

TYPE OF SEAL (C67)

B	C	G	N	Z
bentonite	clay	cement grout	none	other

DEPTH OF SEAL (C68) ____

METHOD OF DEVELOPMENT (C69)

A	B	C	J	N	P	S	Z
air lift pump	bailed	compressed air	jetted	none	pumped	surged	other

HOURS OF DEVELOPMENT (C70) ____

SPECIAL TREATMENT (C71)

C	D	E	F	H	M	Z
chemical treat.	dry ice	explosives	surface water	hydro-fracturing	mech. crushed	other

SITE ID	OWNER
210280	
210281	POTTS, JAMES
210282	BAUMBACK, WILLIAM R
210283	LINDBERGH, CHARLES A
210283	NEW JERSEY HIGHFIELDS CEN
210284	INDRIGIOTTA, THOMAS E
210285	LAWRENCEVILLE SCHOOL
210286	RADIO CORPORATION OF AMER
210286	
210286	
210287	RADIO CORPORATION OF AMER
210287	
210288	ELIZABETHTOWN WATER CO
210289	BRISTOL MYERS CO
210290	US GEOLOGICAL SURVEY
210291	ABTALOSH, FRANK
210292	COLIVITA, SAM
210293	INSTITUTE FOR ADVANCED ST
210294	KIEFER, WILLIAM AND LINDA
210295	SHRANK, C W
210295	LEICHT
210296	MCALINDEN, MERRITT
210297	MITCHELL, WILLIAM
210297	MITCHELL, N
210298	SLATER, BERNARD AND RACHE
210299	STANIAR, H B
210300	SUFNAR, HENRY
210301	PETERSON, ARNOLD L
210301	STONE
210302	MISTRETTA, JOSEPH
210302	WECHSLER, RONALD AND PHOE
210303	GENOVESI, BENNY
210303	WEINROTH, R
210304	WOODWARD, DON
210305	KALEB NURSERY
210306	DAVISON, H.E.
210306	MOUNT, GARY
210307	KLOCKNER SENIOR CITIZEN P
210307	
210308	EDUCATIONAL TESTING SERVI
210309	EDUCATIONAL TESTING SERVI
230001	US METLS AND RF
230002	US METLS AND RF
230003	CHROME STEEL CO
230004	AM ACH CHEM CO
230004	MOBILE CHEM CO
230005	RICHCRETE READY
230006	INCAS
230007	HAGARTY, JUDSON
230008	DAVISON JR.A.
230009	DANSER, FRANK
230010	BARCLAY, I D
230011	CARTER WALLACE
230012	ORBINI, ALFRED F
230012	COUTTS, MAURICE
230013	STULTZ, STANLEY
230014	CRANBURY TWP WD
230015	CRANBURY TWP WD
230016	CRANBURY TWP WD
230017	CRANBURY TWP WD
230018	CARTER WALLACE
230019	CARTER WALLACE
230020	CARTER WALLACE
230021	CARTER WALLACE
[illegible]	C-RTER WALLACE
230023	DYAL, LEROY
230024	DANSER, CLENDON
230025	CARTER WALLACE
230026	CARTER WALLACE
230027	CARTER WALLACE
230028	CARTER WALLACE
230029	NJ TURNPIKE AU
230030	NJ TURNPIKE AU
230031	MONTREY, A N
230032	BARCLAY FARMS
230033	DYAL, LEROY
230034	THERMO-ELECT CO
230035	CITIES SERVICE CO
230035	GENERAL FOODS
230036	NATIONAL STARCH
230037	ELIZABETHTOWN W
230038	HUTCHINSON, H T
230039	KONUK, JOSEPH
230040	E BRUNSWICK TWD
230040	
230041	E BRUNSWICK TWD
230041	
230042	E BRUNSWICK TWD
230042	
230043	E BRUNSWICK TWD

LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT
DOMESTIC	WEST WINDSOR TWP	401623	0743517	90	80		401623074351701	211MRPA			W	W		
RESIDENCE-1986	HOPEWELL TWP	402042	0745200	210	425	6	402042074520001	231LCKG	30	425	W	W	19860308	27-07969
DOMESTIC 1	HOPEWELL BORO	402314	0744622	230	60	6	402314074462201	231BRCK	10	60	W	W	19100000	
LINDBERGH-1931	HOPEWELL TWP	402451	0744610	400	350	6	402451074461001	231LCKG	33.08	350	T	W	19310528	
LINDBERGH-1931	HOPEWELL TWP	402451	0744610	400	350		402451074461001	231LCKG			T	W		
DOMESTIC-1951	HOPEWELL TWP	401734	0744703	200	63	6	401734074470301	231LCKG	16	63	W	W		
SCHOOL 2-1947	LAWRENCE TWP	401740	0744327	90	257	12	401740074432701	231SCKN	30	257	T	W	19510000	
BARNOFF LAB 1	WEST WINDSOR TWP	401949	0743728	60	400	16	401949074372801	231SCKN	40	215	C	W	19470000	48-00015
BARNOFF LAB 1	WEST WINDSOR TWP	401949	0743728	60	400	10	401949074372801	231SCKN	56.39	400	C	W	19420721	48-00018
BARNOFF LAB 1	WEST WINDSOR TWP	401949	0743728	60	400	10	401949074372801	231SCKN			C	W	19440622	
BARNOFF LAB 2	WEST WINDSOR TWP	401945	0743732	60	205	16	401945074373201	231SCKN	43	205	C	W	19420721	48-00019
BARNOFF LAB 2	WEST WINDSOR TWP	401945	0743732	60	205	10	401945074373201	231SCKN			C	W		
STONY BROOK 3	PRINCETON TWP	401939	0743937	60	353	10	401939074393701	231SCKN	20	353	P	W	19130000	48-00009
BRISTL-MYER 100-	HOPEWELL TWP	401753	0744835	215	300	8	401753074483501	231LCKG	12	300	U	W	19550000	
CORE HOLE B	HOPEWELL TWP	401753	0744823	215	187	3	401753074482301	231BRCK	20	187	Z	Z	19860521	
ABTALOSH	HOPEWELL TWP	401910	0745001	210	200	10	401910074500101	231BRCK	41	200	W	W	19790911	27-06732
COLIVITA	HOPEWELL TWP	402208	0745050	310	175		402208074505001	231LCKG	50	175	W	W	19800407	27-06825
INSTITUTE ADV ST	PRINCETON TWP	401951	0744011	110	305	10	401951074401101	231SCKN	45	305	T	W	19630912	28-04705
KEIFER	PRINCETON TWP	402215	0744138	270	220	6	402215074413801	231BSLT	50	220	W	W	19780830	28-10562
LEICHT	HOPEWELL TWP	402123	0744521	140	130	6	402123074452101	231BRCK	40	130	W	W	19790400	28-10948
LEICHT	HOPEWELL TWP	402123	0744521	140	130		402123074452101	231BRCK			W	W		
MCALINDEN	HOPEWELL TWP	402430	0744640	430	250	6	402430074464001	231LCKG	30	230	W	W	19780826	27-06326
MITCHELL	HOPEWELL TWP	401819	0745028	150	205	6	401819074502801	231BRCK	30	205	W	W	19830322	27-06627
MITCHELL	HOPEWELL TWP	401819	0745028	150	205		401819074502801	231BRCK			W	W		
SLATER	HOPEWELL TWP	402359	0744512	186	175	6	402359074451201	231BRCK	30	175	W	W	19830713	28-13236
STANIAR	HOPEWELL TWP	402149	0744810	250	215		402149074481001	231BRCK	62	215	W	W	19801107	27-06946
SUFNAR	HOPEWELL TWP	401823	0744743	220	135	6	401823074474301	231LCKG	38	135	W	W	19820201	27-07036
STONE	HOPEWELL TWP	402023	0744508	170	200	6	402023074450801	231BRCK	56	200	W	W	19841113	28-14602
STONE	HOPEWELL TWP	402023	0744508	170	200		402023074450801	231BRCK			W	W		
WECHSLER	HOPEWELL TWP	402207	0744342	343	290	6	402207074434201	231BSLT	42	290	W	W	19690624	28-06646
WECHSLER	HOPEWELL TWP	402207	0744342	343	290		402207074434201	231BSLT			W	W		
WEINROTH	HOPEWELL TWP	402128	0744945	350	115	6	402128074494501	231SCKN	30	115	W	W	19791000	27-06733
WEINROTH	HOPEWELL TWP	402128	0744945	330	115		402128074494501	231SCKN			W	W		
WOODWARD DOMESTI	HOPEWELL TWP	402147	0744841	340.0	120.0	6.0	402147074484101	231BRCK	30.0	120.0	W	W	19850411	27-07844
KALE IRRIGATION	HOPEWELL TWP	401940	0744308	200	260.0	8.0	401940074430801	231LCKG	30.0	260.0	I	W	19860319	28-16825
MOUNT DOMESTIC	LAWRENCE TWP	401935	0744330	190.0	98.0	6.0	401935074433001	231LCKG	51.0	98.0	W	W	19651020	28-05616
MOUNT DOMESTIC	LAWRENCE TWP	401935	0744330	190.0	98.0		401935074433001	231LCKG			W	W		
KLOCKNER IRRIGAT	LAWRENCE TWP	401335	0744136	75	150	4	401335074413601	211MRPAM	130	140	I	W	19840327	28-13946
KLOCKNER IRRIGAT	HAMILTON TWP	401335	0744136	75	150		401335074413601	211MRPAM	140	150	I	W		
ETS 4 IS NEW ETS	HAMILTON TWP	402045	0744257	160	248	12	402045074425702	231LCKG	30.33	248	C	W	19370309	28-02432
NEW ETS	LAWRENCE TWP	402046	0744317	130	303	8	402046074431701	231LCKG	50.67	303	C	W	19640416	28-05027
USMR 1	LAWRENCE TWP	403408	0741327	15.00	42.0		403407074132701	211FRNG			W	W	19540625	
USMR 2	CARTERET BORO	403407	0741327	15.00	40.0		403407074132702	211FRNG			W	W	19540622	
CARTERET BORO	CARTERET BORO	403420	0741313	10.00	58.0		403420074131301	211FRNG			W	W	1906	
CHEM 1	CARTERET BORO	403433	0741300	10.00	65.0		403433074130001	211MRPA			U	Z	19420612	
CHEM 1	CARTERET BORO	403433	0741300	10.00	65.0		403433074130001	211MRPA			U	Z		
MIX CO 1	CARTERET BORO	401706	0743033	100.00	165		401706074303301	211ODBG	145.00	163.00	W	W	1965	
INCAS 1	CRANBURY TWP	401727	0743042	100.00	170		401727074304201	211ODBG	130.00	170.00	U	Z	1973	
1	CRANBURY TWP	401735	0743118	100.00	298		401735074311801	211FRNG	268.00	298.00	I	W	19640319	
1-IRR 1955	CRANBURY TWP	401801	0743322	90.00	111		401801074332201	211ODBG	95.00	110	I	W	19550210	28-1176
IRR-1950	CRANBURY TWP	401800	0743206	100.00	280		401802074320201	211FRNG	230.00	280.00	I	W	19500610	
1 (FIRESTONE)	CRANBURY TWP	401807	0743012	115.00	180		401807074301201	211ODBG	130.00	180.00	I	W	1952	
CW 1	CRANBURY TWP	401818	0742932	115.00	285		401818074293901	211FRNG	255.00	285.00	U	U	19561210	28-02321
1951	MONROE TWP	401830	0742830	100.00	161		401830074283001	211ODBG	151.00	161.00	W	W	19511026	
1951	MONROE TWP	401830	0742830	100.00	161		401830074283001	211ODBG			W	W		
1-1954(CLIFRD)	CRANBURY TWP	401841	0743355	100.00	163		401841074335501	211FRNG	133.00	163.00	I	W	19541127	
CTWD 1	CRANBURY TWP	401842	0743055	90.00	258		401842074305501	211FRNG	238.00	258.00	U	Z	1906	
CTWD 2	CRANBURY TWP	401842	0743055	93.30	110		401842074305502	211ODBG			P	W	1917	
CTWD 1A	CRANBURY TWP	401842	0743055	94.60	260		401842074305503	211FRNG	230.00	260.00	P	W	19721219	
CTWD 3	CRANBURY TWP	401843	0743055	98.00	298		401843074305501	211FRNG	268.00	298.00	P	W	19630326	
CW 2	CRANBURY TWP	401841	0742905	98.00	201		401845074290801	211ODBG	161.00	201.00	W	W	19571024	28-02327
CW 4	CRANBURY TWP	401844	0742905	120.00	201		401848074290401	211ODBG	161.00	201.00	W	W	19581031	28-03092
CW 3A	CRANBURY TWP	401848	0742902	120.00	202.5		401850074290101	211ODBG	162.5	202.5	W	W	19680220	28-6292
CW 3	CRANBURY TWP	401850	0742901	120.00	202		401850074290102	211ODBG	162.00	202.00	U	Z	19580929	28-02328
CW 9	CRANBURY TWP	401857	0742908	120.00	209		401857074290801	211ODBG			U	U	1951	
?-1970	CRANBURY TWP	401857	0743231	90.00	78.0		401857074323101	211FRNG	68.00	78.00	W	W	19700811	
1	CRANBURY TWP	401858	0743015	115.00	152		401858074301501	211ODBG			I	W	1959	
CW 6	CRANBURY TWP	401902	0742912	120.	399		401902074291201	211FRNG	369.00	399.00	U	U	19640723	28-05007
CW 8	CRANBURY TWP	401903	0742906				401903074290601	211FRNG	304.00	334.00	U	U		28 01506
CW 7	CRANBURY TWP	401906	0742855	120.00	208		401906074285501	211ODBG	178.00	208.00	U	U	1964	
CW 5	CRANBURY TWP	401924	0742909	105.00	335		401911074290901	211FRNG	298.00	335.00	U	U	19640319	28-05006
78-1	CRANBURY TWP	401916	0742920	125.40	385		401916074292001	211FRNG			P	W		
78-2	CRANBURY TWP	401916	0742921	123.00	158		401916074292101	211ODBG	143.00	138.00	U	Z	1951	
CRANBURY TWP	CRANBURY TWP	401917	0743036	120	90.0		401917074303601	211ODBG	80.00	90.00	W	W	19700813	28-6944
1 (C.DANSER)	CRANBURY TWP	401918	0743048	120.00	152		401918074304801	211ODBG			I	W	1956	
DYAL 1 (1951)	CRANBURY TWP	401923	0743247	90.00	180		401923074324701	211FRNG	170.00	180.00	I	W	19510615	
1(PRNCTN TURF)	CRANBURY TWP	401924	0743015	110.00	146		401924074301501	211ODBG	122.00	146.00	I	W	19630924	
1	MONROE TWP	402010	0742838	138.00	197		402010074283801	211ODBG	167.00	197.00	W	W	19560427	28-02016
1	MONROE TWP	402010	0742838	138.00	197		402010074283801	211ODBG			W	W		
NORTH AVE	DUNELLEN BORO	403535	0742740	58.00	600		403535074274001	231BRCK	64.00	600.00	W	W	19681017	28-14905
5TH STREET	DUNELLEN BORO	403530	0742812	60.00	350		403530074281201	231BRCK	84.00	350.00	U	T	19630602	
1(ZAVETZ)	EAST BRUNSWICK TWP	402322	0742615	145.00	104		402322074261501	211FRNG	100.00	104.00	W	W	19550520	
KONUK 1	EAST BRUNSWICK TWP	402410	0742531	140.00	245		402412074253301	211FRNG	225.00	245.00	I	W	19560316	
TEST 5-75	EAST BRUNSWICK TWP	402418	0742545	125.00	221		402418074254201	211FRNG	162.00	172.00	U	Z	197307	
TEST 5-75	EAST BRUNSWICK TWP	402418	0742545	125.00	221		402418074254201	211FRNG	201.00	221.00	U	Z		
3 OBS	EAST BRUNSWICK TWP	402418	0742542		205		402418074254202	211MRPA	161.00	166.00	U	Z	197307	
3 OBS	EAST BRUNSWICK TWP	402418	0742542		205		402418074254202	211MRPA	197.00	202.00	U	Z		
TEST 4-75	EAST BRUNSWICK TWP	402421	0742525	105.00	215		402421074252501	211FRNG	161.00	171.00	U	Z	197307	
TEST 4-75	EAST BRUNSWICK TWP	402421	0742525	105.00	215		402421074252501	211FRNG	195.00	215.00	U	Z		
4 OBS	EAST BRUNSWICK TWP	402421	0742525	105.00	201		402421074252502	211FRNG	161.00	166.00	U	Z	197307	

DEPTH DRILLED	UNIQUE ID
	210280
425	210281
60	210282
350	210283
350	210283
63	210284
402	210285
400	210286
400	210286
400	210286
205	210287
205	210287
353	210288
300	210289
187	210290
200	210291
175	210292
305	210293
220	210294
130	210295
130	210295
230	210296
205	210297
205	210297
175	210298
215	210299
135	210300
200	210301
200	210301
290	210302
290	210302
115	210303
115	210303
120.0	210304
260.0	210305
98.0	210306
98.0	210306
150	210307
150	210307
248	210308
303	210309
	230001
	230002
	230003
	230004
	230004
	230005
	230006
	230007
112	230008
	230009
	230010
	230011
	230012
	230012
	230013
	230014
	230015
	230016
316	230017
	230018
	230019
202.5	230020
	230021
	[illegible]
	230023
	230024
	230025
	230026
	230027
	230028
	230029
	230030
	230031
	230032
	230033
	230034
	230035
	230035
	230036
	230037
	230038
	230039
	230040
	230040
	230041
	230041
	230042
	230042
	230043

UNIQUE ID	OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230043		4 OBB	EAST BRUNSWICK TWP	402421	0742525	105.00	201		402421074252502	211FRNG	195.00	200.00	U	Z				230043
230044	E BRUNSWICK TWD	TEST 6-75	EAST BRUNSWICK TWP	402416	0742453	130.00	281		402422074254501	211MRPA	217.00	237.00	U	Z	197509		319	230044
230044		TEST 6-75	EAST BRUNSWICK TWP	402416	0742453	130.00	281		402422074254501	211MRPA	271.00	281.00	U	Z			319	230044
230045	METAL DECK INC	RETURN WELL	EAST BRUNSWICK TWP	402426	0742515	110.00	233		402426074251501	211FRNG	203.00	233.00	N	W	19690326			230045
230045	POLYSAR RUBBER SERV	RETURN WELL	EAST BRUNSWICK TWP	402426	0742515	110.00	233		402426074251501	211FRNG			N	W				230045
230046	METAL DECK INC	PUMPING WELL	EAST BRUNSWICK TWP	402427	0742507	100.00	230		402427074251201	211FRNG	200.00	230.00	N	W	19681202			230046
230046	POLYSAR RUBBER SERV	PUMPING WELL	EAST BRUNSWICK TWP	402427	0742507	100.00	230		402427074251201	211FRNG			N	W				230046
230047	E BRUNSWICK TWD	TEST 7-75	EAST BRUNSWICK TWP	402430	0742553	95.00	144		402430074255301	211MRPA	119.33	144.00	U	T	19751016		201	230047
230047		TEST 7-75	EAST BRUNSWICK TWP	402430	0742553	95.00	144		402430074255301	211MRPA	119.00	144.00	U	T			201	230047
230048	ANHEUSER BUSCH	1-1931	EAST BRUNSWICK TWP	402431	0742214	30.00	259		402431074221401	211FRNG	223.00	243.00	U	Z	1931			230048
230048		1-1931	EAST BRUNSWICK TWP	402431	0742214	30.00	259		402431074221401	211FRNG	249.00	260.00	U	Z				230048
230049	ANHEUSER BUSCH	2 1931	EAST BRUNSWICK TWP	402431	0742214	30.00	65.0		402431074221402	211ODBG	42.00	62.00	U	Z			70.0	230049
230049		2 1931	EAST BRUNSWICK TWP	402431	0742214	30.00	65.0		402431074221402	211ODBG	45.00	65.00	U	Z			70.0	230049
230050	ANHEUSER BUSCH	BUSCH 5	EAST BRUNSWICK TWP	402432	0742212	37.00	267		402432074221201	211FRNG	215.00	265.00	N	W	19630615	28-04657		230050
230051	ANHEUSER BUSCH	BUSCH 6	EAST BRUNSWICK TWP	402432	0742212	37.00	71.0		402432074221202	211ODBG	51.00	71.00	N	W	19731011	28-08209		230051
230052	ANHEUSER BUSCH	OBB FOR 6	EAST BRUNSWICK TWP	402432	0742212	37.00	64.0		402432074221203	211ODBG	59.00	64.00	U	D	19731011			230052
230053	ANHEUSER BUSCH	BUSCH 4	EAST BRUNSWICK TWP	402432	0742218	30.00	70.0		402432074221801	211ODBG	55.00	70.00	U	Z	19571023	28-02587		230053
230054	ANHEUSER BUSCH	BUSCH 3	EAST BRUNSWICK TWP	402432	0742219	30.00	72.0		402432074221901	211ODBG	57.00	72.00	N	W	19480729	48-00001		230054
230055	E BRUNSWICK TWD	TEST 3	EAST BRUNSWICK TWP	402435	0742540	103.00	178		402435074254001	211FRNG			U	T	1969			230055
230056	E BRUNSWICK TWD	TEST 2	EAST BRUNSWICK TWP	402437	0742535	97.00	175		402437074253501	211FRNG			U	T				230056
230057	CIAK BROS	COLONIAL OAKS	EAST BRUNSWICK TWP	402441	0742448	122.00	241		402441074244801	211FRNG	216.00	241.00	U	U	19540506			230057
230057	E BRUNSWICK TWD	COLONIAL OAKS	EAST BRUNSWICK TWP	402441	0742448	122.00	241		402441074244801	211FRNG			U	U				230057
230058	MIDDLESEX W C	TAMARACK 1-75	EAST BRUNSWICK TWP	402448	0742700	108.00	107		402448074270001	211FRNG	87.00	107.00	I	W	19750507			230058
230059	E BRUNSWICK TWD	EBTWD 2	EAST BRUNSWICK TWP	402456	0742442	122.00	220	0.00	402456074244201	211FRNG	180.00	220.00	P	W	19550407		220	230059
230060	NJ TURNPIKE AU	BN-3	EAST BRUNSWICK TWP	402459	0742643	110.00	110		402459074264301	211FRNG	90.00	110.00	U	U	19520510			230060
230061	NJ TURNPIKE AU	BN-1	EAST BRUNSWICK TWP	402500	0742638	120.00	109		402500074263801	211FRNG	99.00	109.00	U	Z	19510508			230061
230062	NJ TURNPIKE AU	BN-2	EAST BRUNSWICK TWP	402500	0742642	115.00	120		402500074264201	211FRNG	110.00	120.00	U	U	19510518			230062
230063	E BRUNSWICK TWD	EBTWD 1	EAST BRUNSWICK TWP	402501	0742440	110.00	222	0.00	402501074244001	211FRNG	161.50	181.50	P	W	19510816		225	230063
230064	BEECHER OBB	E BRUNSWICK TWP	EAST BRUNSWICK TWP	402503	0742812	85.00	40.0	5.00	402503074281201	211FRNG	35.00	40.00	U	U	19740728		42.0	230064
230065	E BRUNSWICK TWD	1-69	EAST BRUNSWICK TWP	402520	0742609	114.00	152		402520074260901	211FRNG	140.00	150.00	U	Z	19690903			230065
230066	COLLINS, EDWARD	COLLINS	EAST BRUNSWICK TWP	402516	0742408	140	223		402527074241101	211FRNG	198.00	223.00	I	W	19540314			230066
230067	BAIRD, L	1	EAST BRUNSWICK TWP	402531	0742823	97.00	38.0		402531074282301	211FRNG	32.00	37.00	U	Z	19550728	28-03348		230067
230068	SOUTH RIVER BORO	S RIVER 1	EAST BRUNSWICK TWP	402555	0742136	20.00	198		402549074213401	211FRNG	189.00	198.00	U	Z	1966			230068
230069	C P S CHEMICAL	C P S 1-1975	EAST BRUNSWICK TWP	402609	0741940	23.0	68.0		402532074203001	211ODBG	56.00	66.00	N	W	19750323	29-08130	71.0	230069
230070	FISCHER, ROBERT	FISCHER	EAST BRUNSWICK TWP	402555	0742719	73.00	21.0		402533074271701	211FRNG	0.00	21.00	U	D	1936			230070
230071	SMITH, LAWRENCE	SMITH 1	EAST BRUNSWICK TWP	402237	0742830	90.00	172		402435074240201	211FRNG	154.00	172.00	U	Z	19510203			230071
230072	SMITH, LAWRENCE	SMITH 2-1972	EAST BRUNSWICK TWP	402635	0742402	80.00	130		402635074240202	211FRNG	120.00	130.00	I	W	19720301		149.5	230072
230073	CARY CHEMICAL	1 PREM PLASTIC	EAST BRUNSWICK TWP	402649	0742424	80.00	82.0		402649074252401	211FRNG	72.00	82.00	N	W	19560221			230073
230073	PREMIUM PLASTICS	1 PREM PLASTIC	EAST BRUNSWICK TWP	402649	0742424	80.00	82.0		402649074252401	211MRPA			N	W				230073
230073	PREMIUM PLASTIC	1 PREM PLASTIC	EAST BRUNSWICK TWP	402649	0742424	80.00	82.0		402649074252401	211FRNG			N	W				230073
230074	GREAT BAY CHEM	RINGBRAND 1	EAST BRUNSWICK TWP	402650	0742423		177		402650074252301	211FRNG			N	W	1961			230073
230075	HERBERT SAND CO	HBC 2 INCH	EAST BRUNSWICK TWP	402732	0742320	3.00			402732074231101	211FRNG	49.00	52.00	U	Y				230074
230076	HERBERT SAND CO	HBC	EAST BRUNSWICK TWP	402734	0742320	10.00	32.0		402734074232001	211MRPA			U	Y				230075
230077	HERBERT SAND CO	HBC 2	EAST BRUNSWICK TWP	402735	0742300	6.00	35.0		402735074230001	211FRNG	32.00	35.00	U	Z	1964			230076
230078	HERBERT SAND CO	HBC	EAST BRUNSWICK TWP	402735	0742310	5.00	32.0		402735074231001	211MRPA			U	T				230077
230079	HERBERT SAND CO	HBC 1	EAST BRUNSWICK TWP	402807	0742302	5.00	68.0		402807074230201	211MRPA			U	Z	1964			230078
230080	HERBERT SAND CO	RAMNEY WELL	EAST BRUNSWICK TWP	402807	0742351	28.00	18.0		402807074235101	211FRNG			F	W				230079
230081	JEFIMOWICZ, LEO	1	EAST BRUNSWICK TWP	402819	0742402	50.00	110		402819074240201	231BRCK	51.00	110.00	N	W	19541015			230080
230082	TOMPKINS, R	1(BORGESE,J)	EAST BRUNSWICK TWP	402836	0742404	40.00	109		402836074240401	231BRCK	64.00	109.00	I	W	19550103			230081
230082	BORGESE, J	1(BORGESE,J)	EAST BRUNSWICK TWP	402836	0742404	40.00	109		402836074240401	231BRCK			I	W				230082
230083	TENNECO CHEM	3(NIXON NITRT)	EDISON TWP	402949	0742200	30.00	100		402949074220001	211FRNG			N	W	1913			230082
230084	TENNECO CHEM	1(NIXON NITRT)	EDISON TWP	402955	0742210	50.00	100		402955074221001	211FRNG			N	W	1913			230083
230085	TENNECO CHEM	2(NIXON NITRT)	EDISON TWP	402955	0742210	50.00	100		402955074221002	211FRNG			N	W	1913			230084
230086	ALCOA	EDISON WRKS 04	EDISON TWP	403127	0742048		26.0		403127074204801	211FRNG			O		19591123			230085
230087	ALCOA	EDISON WRKS 03	EDISON TWP	403127	0742050		26.0		403127074205001	211FRNG			O		19591123			230086
230088	AMERICAN CAN CO	EDISON WRKS P2	EDISON TWP	403128	0742049	71.00	29.0		403128074204901	211FRNG			N	W	1960			230087
230089	ALCOA	EDISON WRKS P2	EDISON TWP	403128	0742049	71.00	29.0		403128074204901	211FRNG			N	W				230088
230090	ALCOA	EDISON WRKS P1	EDISON TWP	403128	0742051	70.00	26.0		403128074205101	211FRNG			N	W				230088
230091	ALCOA	EDISON WRKS P3	EDISON TWP	403130	0742046	72.00	30.0		403130074204601	211FRNG			N	W	19591130			230089
230092	AMERICAN CAN CO	EDISON WRKS 02	EDISON TWP	403130	0742052		26.0		403130074205201	211FRNG			N	W	1960			230090
230093	EDISON ASPHALT	EDISON WRKS 01	EDISON TWP	403132	0742053		28.0		403132074205301	211FRNG			O		19591123			230091
230094	HELMETTA WC	EAC 2	EDISON TWP	403132	0742053		28.0		403132074205301	211FRNG			O		19591123			230092
230095	HELMETTA WC	5-1962 (OLD02)	HELMETTA BORO	403233	0742345	90.00	301		403233074234501	231BRCK	26.00	301.00	N	W	19630617			230092
230096	HELMETTA WC	4-1960 (OLD01)	HELMETTA BORO	402239	0742530	60.00	198		402239074253001	211FRNG	183.00	193.00	N	W	1962			230093
230097	HELMETTA WC	6(4-R)	HELMETTA BORO	402239	0742540	40.00	39.0		402239074254001	211ODBG	34.00	39.00	U	Z	1960			230094
230097	DUHERNAL W CO	DUHRNL OBS 49F	HELMETTA BORO	402236	0742535	40.00	42.0		402239074254002	211ODBG	32.00	42.00	P	W	19720617			230095
230098	NJ WATER CO	DUHRNL OBS 49F	HELMETTA BORO	402247	0742503	39.00	307	0.00	402247074250301	211FRNG	236.00	243.00	U	D	19460417		375	230096
230099	NJ WATER CO	JAMESBURG 6	JAMESBURG BORO	402247	0742503	39.00	307		402247074250301	211FRNG	296.00	301.00	U	D			375	230097
230100	NJ WATER CO	JAMESBURG 1927	JAMESBURG BORO	402051	0742604	50.00	120		402051074260401	211ODBG	99.00	120.00	P	W	19541006	28-01426		230097
230101	HOLDER FISH	JAMESBURG 7	JAMESBURG BORO	402051	0742604	45.00	128		402051074260402	211ODBG	116.00	128.00	U	Z	1927			230098
230102	TONKIN, DONALD	1973	OLD BRIDGE TWP	402053	0742603	45.00	129		402053074260301	211ODBG	118.00	129.00	P	W	19550720	28-01612		230099
230103	BAD LIQUID BULK	1971	OLD BRIDGE TWP	402030	0742115	50.00	216		402030074211301	211ODBG	211.00	223.00	N	W	1973			230100
230104	OLYMPIA & YORK BRIDGE DEV	1972	OLD BRIDGE TWP	402129	0742119	70.00	91.0		402052074212401	211ODBG	90.00	96.00	N	W	1971			230101
230105	DORSI, DOMINIC	KORMEL	OLD BRIDGE TWP	402139	0742118	85.00	116		402142074211301	211ODBG	109.00	116.00	N	W	1972	28-07354		230102
230106	DUHERNAL W CO	1969	OLD BRIDGE TWP	402143	0741849	76.75	11.0		402143074185201	211EGLS	0	11	U	D	1923			230103
230107	DUHERNAL W CO	DUHERNL OBS 32	OLD BRIDGE TWP	402204	0742122	90.00	73.0		402204074212201	211EGLS	67.00	73.00	N	W	1969		11	230104
230107		DUHRNL OBS 54F	OLD BRIDGE TWP	402251	0742248		132		402251074224801	211MRPA			U	D	1944			230105
230108	DUHERNAL W CO	DUHRNL OBS 54F	OLD BRIDGE TWP	402252	0742246	28.00	334		402252074224601	211FRNG	311.00	318.00	U	D	1946			230106
230109	DUHERNAL W CO	DUHERNAL 13	OLD BRIDGE TWP	402252	0742246	28.00	334		402252074224601	211FRNG	327.00	334.00	U	D				230107
230110	DUHERNAL W CO	DUHERNL OBS 26	OLD BRIDGE TWP	402253	0742247	25.00	107		402253074224701	211ODBG	87.00	107.00	N	W	1947			230107
230111	DUHERNAL W CO	DUHERNAL 11	OLD BRIDGE TWP	402302	0742256	23.35	101		402302074225601	211ODBG			U	D	1942			230108
230112	DUHERNAL W CO	DUHERNL OBS 52	OLD BRIDGE TWP	402308	0742252	20.00	97.0		402308074225201	211ODBG	77.00	97.00	N	W	1942			230109
230113	DUHERNAL W CO	DUHERNL OBS 70	OLD BRIDGE TWP	402309	0742252	20.00	89.0		402309074225201	211ODBG	84.00	89.00	U	D	1954			230110
230114	DUHERNAL W CO	DUHERNAL 10	OLD BRIDGE TWP	402316	0742235	20.00	9.0		402316074223501	211ODBG			U	D	1956			230111
230115	DUHERNAL W CO	DUHRNL OBS 52F	OLD BRIDGE TWP	402318	0742250	20.00	94.0		402318074225001	211ODBG	79.00	94.00	N	W	1965			230112
230116	DUHERNAL W CO	DUHERNL OBS 7	OLD BRIDGE TWP	402319	0742246	26.00	237		402319074224601	211FRNG	225.00	237.00	U	D	1945			230113
230117	DUHERNAL W CO	DUHERNAL 20	OLD BRIDGE TWP	402320	0742249		106		402319074364801	211MRPA			U	D	1938			230114
230118	DUHERNAL W CO	DUHERNL OBS 38	OLD BRIDGE TWP	402323	0742245	20.00	99.0		402323074224501	211ODBG	84.00	99.00	N	W	1953			230115
		DUHERNL OBS 3	OLD BRIDGE TWP	402325	0742259		100		402325074225901	211MRPA			U	D	1947			230116
				402326	0742157		52.0		402326074215701	211MRPA	41.00	52.00	U	D	1938			230117
																		230118

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230119	DUHERNAL W CO	DUHERNAL 14	OLD BRIDGE TWP	402326	0742258	20.00	85.0		402326074225801	211ODBG	67.00	85.00	N	W	1947			230119
230120	DUHERNAL W CO	DUHERNL OBS 24	OLD BRIDGE TWP	402328	0742241		115		402328074224101	211MRPA			U	D	1941			230120
230121	DUHERNAL W CO	DUHERNAL 12	OLD BRIDGE TWP	402328	0742243	18.00	85.0		402328074224301	211ODBG	75.00	85.00	N	W	196810			230121
230122	DUHERNAL W CO	DUHERNL OBS 22	OLD BRIDGE TWP	402328	0742248		75.0		402328074224801	211MRPA			U	D				230122
230123	DUHERNAL W CO	DUHERNL OBS 20	OLD BRIDGE TWP	402328	0742251		78.0		402328074225101	211MRPA			U	D				230123
230124	DUHERNAL W CO	DUHERNL OBS 21	OLD BRIDGE TWP	402328	0742251		75.0		402328074225102	211MRPA			U	D				230124
230125	DUHERNAL W CO	DUHERNL OBS 8	OLD BRIDGE TWP	402328	0742255		93.0		402328074225501	211MRPA			U	D	19381018			230125
230126	DUHERNAL W CO	DUHERNL OBS 19	OLD BRIDGE TWP	402328	0742257		75.0		402328074225701	211MRPA			U	D				230126
230127	DUHERNAL W CO	DUHERNAL AF	OLD BRIDGE TWP	402330	0742258	12.00	296		402330074225801	211FRNG	236.00	296.00	N	W	1945			230127
230128	DUHERNAL W CO	DUHERNAL 21	OLD BRIDGE TWP	402333	0742255	10.00	64.0		402333074225501	211ODBG	34.00	64.00	N	W	19330527			230128
230129	DUHERNAL W CO	DUHRL OBS 42FA	OLD BRIDGE TWP	402334	0742128	20.00	310		402334074212801	211FRNG	304.00	310.00	U	Z	1946			230129
230130	DUHERNAL W CO	DUHERNL OBS 6	OLD BRIDGE TWP	402334	0742230		80.0		402334074223001	211MRPA	70.00	80.00	U	D	19381003			230130
230131	DUHERNAL W CO	DUHERNAL 8	OLD BRIDGE TWP	402334	0742231	24.00	80.0		402334074223101	211ODBG	65.00	80.00	N	W	19381114			230131
230132	DUHERNAL W CO	DUHRNL OBS 56F	OLD BRIDGE TWP	402335	0742136	25.00	267		402335074213601	211FRNG	262.00	267.00	U	D	19470411			230132
230133	OLD BRIDGE MUA	OLD BRIDGE 6	OLD BRIDGE TWP	402350	0742051	30.00	350		402340074204301	211FRNG	266.00	350.00	P	W	19630809			230133
230134	DUHERNAL W CO	DUHERNAL 7	OLD BRIDGE TWP	402340	0742243	25.00	76.0		402340074224301	211ODBG	56.00	76.00	N	W	19380915			230134
230135	OLD BRIDGE MUA	BROWNTOWN 2	OLD BRIDGE TWP	402345	0741832	95.00	250		402345074183801	211ODBG	190.00	248.00	P	W	19661202	29-04998		230135
230136	OLD BRIDGE MUA	OLD BRIDGE 5	OLD BRIDGE TWP	402353	0742056	30.00	312		402345074205001	211FRNG	280.00	312.00	P	W	19570613			230136
230137	DUHERNAL W CO	DUHERNAL 5A	OLD BRIDGE TWP	402345	0742230	20.00	84.0		402345074223002	211ODBG			U	Z				230137
230138	DUHERNAL W CO	DUHERNAL 5C	OLD BRIDGE TWP	402345	0742230	20.00	82.0		402345074223003	211ODBG			U	Z	19440413			230138
230139	DUHERNAL W CO	DUHERNL OBS 18	OLD BRIDGE TWP	402345	0742230	20.00	73.0		402345074223004	211MRPA			U	Z				230139
230140	DUHERNAL W CO	DUHERNL OBS 23	OLD BRIDGE TWP	402247	0742132	33.60	78.0		402345074223005	211ODBG			U	Z	1941			230140
230141	DUHERNAL W CO	DUHERNL OBS 39	OLD BRIDGE TWP	402345	0742230	20.00	140		402345074223006	211MRPA			U	Z	19470331			230141
230142	OLD BRIDGE MUA	BROWNTOWN 1	OLD BRIDGE TWP	402346	0741832	90.00	249		402346074183201	211ODBG	199.00	249.00	P	W				230142
230143	DUHERNAL W CO	DUHERNL OBS 2	OLD BRIDGE TWP	402347	0742038	30.00	91.0		402347074203801	211ODBG	81.00	91.00	U	D	19380428			230143
230144	DUHERNAL W CO	DUHERNAL 6	OLD BRIDGE TWP	402347	0742241	18.00	71.0		402347074224101	211ODBG	51.00	71.00	U	Z	19380805			230144
230145	OLD BRIDGE MUA	11-1972	OLD BRIDGE TWP	402348	0742050	30.00	120		402348074205001	211ODBG	80.00	120.00	P	W	19720823			230145
230146	OLD BRIDGE MUA	BROWNTOWN 3	OLD BRIDGE TWP	402350	0741834	80.00	480		402350074183401	211FRNG	435.00	480.00	P	W	19660311			230146
230147	OLD BRIDGE MUA	BROWNTOWN 4	OLD BRIDGE TWP	402350	0741840	80.00	475		402350074184001	211FRNG	425.00	475.00	P	W	19660630			230147
230148	DUHERNAL W CO	DUHERNAL 5	OLD BRIDGE TWP	402350	0742232	20.00	71.0		402350074223201	211ODBG	51.00	71.00	U	Z	19380820			230148
230149	DUHERNAL W CO	DUHERNAL 15	OLD BRIDGE TWP	402351	0742210	15.00	75.0		402351074221001	211ODBG	55.00	75.00	N	W	19470620			230149
230150	DUHERNAL W CO	DUHERNAL 25	OLD BRIDGE TWP	402351	0742230	10.00	67.0		402351074223001	211ODBG	57.00	67.00	N	W	19380301			230150
230151	DUHERNAL W CO	DUHERNAL OBS 4	OLD BRIDGE TWP	402352	0742224	24.61	75.0		402352074222401	211ODBG	64.00	75.00	U	D	19380305			230151
230152	DUHERNAL W CO	DUHERNL OBS 38	OLD BRIDGE TWP	402353	0742157	15.00	70.0		402353074215701	211ODBG			U	D	19440322			230152
230153	DUHERNAL W CO	DUHERNAL 16	OLD BRIDGE TWP	402354	0742200	10.00	75.0		402354074220001	211ODBG	55.00	75.00	N	W	19470712			230153
230154	DUHERNAL W CO	DUHRNL OBS 43F	OLD BRIDGE TWP	402354	0742212	15.00	294		402354074221201	211FRNG	229.00	236.00	U	D	1946			230154
230154		DUHRNL OBS 43F	OLD BRIDGE TWP	402354	0742218	15.00	294		402354074221201	211FRNG	287.00	294.00	U	D				230154
230155	DUHERNAL W CO	DUHERNAL 4	OLD BRIDGE TWP	402355	0742226	21.00	74.0		402355074222601	211ODBG	52.00	74.00	N	W	19380705			230155
230156	OLD BRIDGE MUA	10-1972	OLD BRIDGE TWP	402353	0742056	30.00	120		402356074205601	211ODBG	90.00	120.00	P	W	19720830			230156
230157	DUHERNAL W CO	DUHERNL OBS 40	OLD BRIDGE TWP	402357	0742202				402357074220201	211MRPA			U	D				230157
230158	DUHERNAL W CO	DUHERNL OBS 49	OLD BRIDGE TWP	402357	0742233	25.00	75.0		402357074223301	211ODBG	70.00	75.00	U	D	19320313			230158
230159	DUHERNAL W CO	DUHERNAL OBS 5	OLD BRIDGE TWP	402353	0742158	19.84	63.0		402358074215601	211ODBG	55.00	63.00	U	D	1938			230159
230160	DUHERNAL W CO	DUHERNAL 22	OLD BRIDGE TWP	402358	0742207	25.00	77.0		402358074220701	211ODBG	67.00	77.00	N	W	19330628			230160
230161	DUHERNAL W CO	DUHERNAL 2	OLD BRIDGE TWP	402358	0742211	18.00	73.0		402358074221101	211ODBG	62.00	73.00	N	W	19380801			230161
230162	DUHERNAL W CO	DUHERNL OBS 41	OLD BRIDGE TWP	402358	0742225		71.0		402358074222501	211MRPA			U	D	19480928			230162
230163	DUHERNAL W CO	DUHERNAL 3	OLD BRIDGE TWP	402359	0742220	22.00	76.0		402359074222001	211ODBG	61.00	76.00	N	W	19380712			230163
230164	DUHERNAL W CO	DUHERNAL 24	OLD BRIDGE TWP	402359	0742224	10.00	62.0		402359074222401	211ODBG	52.00	62.00	N	W	19380221			230164
230165	DUHERNAL W CO	DUHERNL OBS 43	OLD BRIDGE TWP	402401	0742208		80.0		402401074220801	211MRPA			U	D	19481013			230165
230166	DUHERNAL W CO	DUHERNAL 23	OLD BRIDGE TWP	402401	0742216	10.00	60.0		402401074221601	211ODBG	30.00	60.00	N	W	19380322			230166
230167	DUHERNAL W CO	DUHERNL OBS 42	OLD BRIDGE TWP	402401	0742226		60.0		402401074222601	211MRPA			U	D	19481007			230167
230168	DUHERNAL W CO	DUHERNL OBS 12	OLD BRIDGE TWP	402402	0742202		80.0		402402074220201	211MRPA			U	D	1943			230168
230169	DUHERNAL W CO	DUHERNAL 17	OLD BRIDGE TWP	402403	0742208	10.00	73.0		402403074220801	211ODBG	38.00	73.00	N	W	19490622			230169
230170	DUHERNAL W CO	DUHRNL OBS 53F	OLD BRIDGE TWP	402403	0742405	60.	296		402403074240501	211FRNG	284.00	287.00	U	D	19460503			230170
230170		DUHRNL OBS 53F	OLD BRIDGE TWP	402403	0742405	60.	296		402403074240501	211FRNG	293.00	296.00	U	D				230170
230171	DUHERNAL W CO	DUHERNAL BF	OLD BRIDGE TWP	402404	0742204	20.00	300		402404074220401	211FRNG	240.00	300.00	N	W	19460716			230171
230172	DUHERNAL W CO	DUHERNAL 1	OLD BRIDGE TWP	402404	0742205	13.00	75.0		402404074220501	211ODBG	55.00	75.00	N	W	1938			230172
230173	OLD BRIDGE BD ED	IRA-71	OLD BRIDGE TWP	402406	0741620	60.00	195		402406074162001	211ODBG	173.00	193.00	I	W	19710802			230173
230174	OLD BRIDGE MUA	BROWTOWN OBS	OLD BRIDGE TWP	402407	0741924	45.00	150		402407074192001	211ODBG			U	D	19611204	29-03635		230174
230175	DUHERNAL W CO	DUHERNAL 19	OLD BRIDGE TWP	402408	0742202	10.00	63.0		402408074220201	211ODBG	55.00	65.00	N	W	19330701			230175
230176	OLD BRIDGE MUA	OBS 1-1972	OLD BRIDGE TWP	402407	0741924	45.00	363		402411074192501	211FRNG	321.00	363.00	U	D	19720318			230176
230177	DUHERNAL W CO	DUHERNAL 18	OLD BRIDGE TWP	402414	0742203	10.00	67.0		402414074220301	211ODBG	52.00	67.00	N	W	19310118			230177
230178	PERTH AMBOY WATER DEPARTM	LAYNE OBS 5	OLD BRIDGE TWP	402425	0742036	35.00	324		402425074203601	211FRNG	319.00	324.00	U	D	1955			230178
230179	OLD BRIDGE MUA	OBS 2-1972	OLD BRIDGE TWP	402436	0742041	10.00	292		402435074203601	211FRNG	250.00	292.00	U	D	19720607			230179
230180	DUHERNAL W CO	DUHERNAL OBS 1	OLD BRIDGE TWP	402438	0742129	19.20	67.0		402439074212401	211ODBG	57.00	67.00	U	D	1938			230180
230181	PERTH AMBOY WATER DEPARTM	RUNYON 123	OLD BRIDGE TWP	402442	0742136	5.48	60.0		402442074213601	211ODBG			U	D	1912			230181
230182	BOWNE, CLYDE	BROWNTOWN	OLD BRIDGE TWP	402449	0741819	30.38	71.0		402450074181801	211ODBG	66.00	71.00	U	D	1932			230182
230183	OLD BRIDGE BD ED	IRR WELL 1963	OLD BRIDGE TWP	402451	0741824	80.00	204		402451074182401	211ODBG	184.00	204.00	I	W	1963			230183
230184	PERTH AMBOY WATER DEPARTM	RUNYON AA	OLD BRIDGE TWP	402458	0742004	18.00	24.0		402458074200401	211ODBG			U	D	1932			230184
230185	NJ WATER POLICY	PERTH AMBOY 1	OLD BRIDGE TWP	402502	0742127	14.00	30.0		402502074212701	211ODBG	27.00	30.00	U	D	19680122			230185
230186	PERTH AMBOY WATER DEPARTM	RUNYON 91	OLD BRIDGE TWP	402522	0742044	6.00	16.0		402522074204401	211MRPA			U	D				230186
230187	PERTH AMBOY WATER DEPARTM	51-1952	OLD BRIDGE TWP	402523	0741953	15.00	57.0		402523074195301	211ODBG	41.00	57.00	P	W	1952			230187
230188	OLD BRIDGE MUA	WESTBURY W C 1	OLD BRIDGE TWP	402525	0741626	120.00	265		402525074162601	211ODBG	243.00	265.00	P	W	19560727			230188
230189	PERTH AMBOY WATER DEPARTM	RUNYON R50	OLD BRIDGE TWP	402525	0741954	15.00	55.0		402525074195401	211ODBG			U	D	1923			230189
230190	NAPPI TRUCK CO	2-1965	OLD BRIDGE TWP	402526	0741603	140.00	253		402530074160201	211ODBG			U	U	1965			230190
230191	CALIENDO, JOHN	CALIENDO 1	OLD BRIDGE TWP	402530	0741701	115.00	227		402530074165901	211ODBG	221.00	227.00	U	U	19590706			230191
230192	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 3	OLD BRIDGE TWP	402535	0742014	15.00	68.0		402535074201401	211ODBG	48.00	68.00	P	W	19310102			230192
230193	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 4	OLD BRIDGE TWP	402536	0742012	15.00	66.0		402536074201202	211ODBG	52.00	67.00	P	W	19550606			230193
230194	PERTH AMBOY WATER DEPARTM	RUNYON 1	OLD BRIDGE TWP	402536	0742018	18.30	281	0.00	402536074201801	211FRNG	201.00	231.00	U	D	1930		291	230194
230194		RUNYON 1	OLD BRIDGE TWP	402536	0742018	18.30	281		402536074201801	211FRNG	251.00	281.00	U	D			291	230194
230195	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 5	OLD BRIDGE TWP	402537	0742001	15	80.0		402537074200201	211ODBG	50.00	80.00	P	W	19450914			230195
230196	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 1A	OLD BRIDGE TWP	402537	0742020	20.00	261		402537074202001	211FRNG	201.00	261.00	U	W	19680212			230196
230197	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 2	OLD BRIDGE TWP	402543	0742010	20.00	260		402543074201001	211FRNG	205.00	260.00	U	W	1944			230197
230198	PERTH AMBOY WATER DEPARTM	21-1952	OLD BRIDGE TWP	402543	0742012	15.00	58.0		402543074201201	211ODBG	43.00	58.00	P	W	1952			230198
230199	PERTH AMBOY WATER DEPARTM	11-1952	OLD BRIDGE TWP	402552	0741953	20.00	47.0		402552074195301	211ODBG	32.00	47.00	P	W	1952			230199
230200	C P S CHEMICAL	C P S 1-1972	OLD BRIDGE TWP	402610	0741930	30.00	75.0		402609074194001	211ODBG	64.00	75.00	N	W	19720725	28-07587	75	230200
230201	OLD BRIDGE MUA	MIDTOWN 1	OLD BRIDGE TWP	402614	0741744	15.00	306		402614074174801	211FRNG	266.00	306.00	U	Z	19561010			230201
230202	NJ DEPT CONSERV	CHEESQUAKE BP1	OLD BRIDGE TWP	402625	0741611	11.00	320		402623074161101	211FRNG	297.00	320.00	U	Z	195702			230202
230203	OBCHWALD BRICK	1	OLD BRIDGE TWP	402632	0741459	50.00	200		402632074145901	211ODBG	156.00	200.00	U	Z	1914			230203
230204	MONTEATH LUMBER	MONTEATH	OLD BRIDGE TWP	402644	0741858	100.00	152		402644074185801	211ODBG	120.00	132.00	C	W	1980			230204
230205	OLD BRIDGE MUA	LAURENCE HAR 8	OLD BRIDGE TWP	402700	0741454	60.00	218		402700074145901	211ODBG	193.00	213.00	P	W	19480419			230205

DATE: [illegible]

PAGE [illegible]

UNIQUE ID	[illegible]	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230206	OLD BRIDGE MUA	LAWRENCE HAR 9	OLD BRIDGE TWP	402700	0741454	60.00	395		402700074145902	211FRNG	360.00	395.00	P	W	19530819			230206
230207	SHOP-RITE STORE	PATHMARK	OLD BRIDGE TWP	402705	0741745	130.00	220		402705074174501	211ODBG			U	U	1963			230207
230208	OLD BRIDGE MUA	1-HOPE PK	OLD BRIDGE TWP	402712	0741806	140.00	181		402712074180601	211ODBG	167.00	181.00	U	U	19560329		181	230208
230209	PREMIUM PLASTICS	2 PREM PLASTIC	METUCHEN BORO	403254	0742234	80.00	161		403254074223401	231BRCK	72.00	161.00	M	W	19690415			230209
230210	APT-TO-ACRES	1971	MONROE TWP	401738	0742428	80.00	260		401738074242801	211EGLB	250.00	260.00	M	W	1971			230210
230211	VLCEJ, STEPHEN	1972	MONROE TWP	401819	0742248	105.00	49.0		401819074224801	211EGLB	43.00	49.00	M	W	19720330			230211
230212	D'ALBERO, ANTHNY	1966	MONROE TWP	401840	0742242	180.00	90.0		401840074224201	211EGLB	84.00	90.00	M	W	19661011			230212
230213	BARATTA, CARL	1-1968	MONROE TWP	401847	0742345	100.00	198		401847074234501	211ODBG	195.00	198.00	M	W	1968			230213
230214	BARATTA, CARL	2-1968	MONROE TWP	401847	0742345	100.00	198		401847074234502	211ODBG	195.00	198.00	M	W	1968			230214
230215	REALTY TRNSFR C	1971	MONROE TWP	401902	0742602		180		401902074260201	211ODBG	175.00	180.00	M	W	19710126			230215
230216	COLLURA, PAUL	1972	MONROE TWP	401904	0742435		120		401904074243501	211ODBG	115.00	120.00	M	W	1972			230216
230217	ROSENBLUM, ARON	1972	MONROE TWP	401942	0742150	55.00	147		401912074214701	211ODBG	137.00	147.00	M	W	19720506			230217
230217	MOROSE, GEORGE	1972	MONROE TWP	401942	0742150	55.00	147		401912074214701	211ODBG			M	W				230217
230218	KOPPEL, JUDITH	1968	MONROE TWP	401925	0742439	130.00	176		401925074243901	211ODBG	173.00	177.00	M	W	19680422			230218
230219	FORSGATE W C	8-R	MONROE TWP	401925	0742620	167.00	329		401925074262001	211ODBG	287.00	325.00	U	Z	1952			230219
230219	MONROE TWP MUA	8-R	MONROE TWP	401925	0742620	167.00	329		401925074262001	211ODBG	292.00	322.00	U	Z				230219
230220	FOCARINO, BARNEY	1955	MONROE TWP	401939	0742430	160.00	217		401939074243001	211ODBG	214.00	217.00	U	U	19551221			230220
230221	PAPROCKY, PETER	1954	MONROE TWP	401950	0742606	150.00	179		401950074260601	211ODBG	175.00	179.00	M	W	19540610			230221
230222	FORSGATE W C	FORSGATE 5	MONROE TWP	401952	0742805	130.00	202		401953074280201	211ODBG	182.00	202.00	P	W	195406			230222
230222	MONROE TWP MUA	FORSGATE 5	MONROE TWP	401952	0742805	130.00	202		401953074280201	211ODBG			P	W				230222
230223	DEMARCO, EDWARD	1970	MONROE TWP	402000	0742423	110.00	225		402000074242301	211ODBG	220.00	225.00	M	W	1970			230223
230224	JACOBSEN, L	1972	MONROE TWP	402003	0742459	135.00	180		402003074245901	211ODBG	170.00	180.00	I	W	1972			230224
230225	INDYK, JOSEPH S	MONROE TWP	MONROE TWP	402011	0742231	65.00	240		402011074223101	211ODBG	236.00	240.00	M	W	19510130			230225
230226	CITIES SERVICE CO	2	MONROE TWP	402013	0742834	132.00	364		402013074283401	211FRNG	330.00	364.00	M	W	19670825	28-06144		230226
230226	GENERAL FOODS	2	MONROE TWP	402013	0742834	132.00	364		402013074283401	211FRNG			M	W				230226
230227	CITIES SERVICE CO	3	MONROE TWP	402012	0742833	132	198		402013074283402	211ODBG	168.00	198.00	M	W	19671009	28-06234		230227
230227	GENERAL FOODS	3	MONROE TWP	402012	0742833	132	198		402013074283402	211ODBG			M	W				230227
230228	MONROE TWP MUA	OBS 3-1961	MONROE TWP	402015	0742757	147.34	138		402015074275701	211ODBG	128.00	138.00	U	D	1961			230228
230229	MONROE TWP MUA	OBS 4-1961	MONROE TWP	402015	0742757	147.34	330		402015074275702	211FRNG	319.00	330.00	U	D	1961			230229
230230	FARINO BROS	1	MONROE TWP	402012	0742703	155.00	204		402017074270301	211ODBG	187.00	204.00	U	Z	1939			230230
230231	FARINO BROS	2-REPLACEMENT	MONROE TWP	402019	0742708	157.00	190		402019074270801	211ODBG	170.00	190.00	U	U	19650724			230231
230232	FORSGATE W C	FORSGATE 11	MONROE TWP	402023	0742858	130.00	314		402022074285301	211FRNG	272.00	314.00	P	W	19610615	28-04106		230232
230232	MONROE TWP MUA	FORSGATE 11	MONROE TWP	402023	0742858	130.00	314		402022074285301	211FRNG			P	W				230232
230233	NJ HOME FOR BOY	BOYS HOME 2	MONROE TWP	402034	0742333	75.00	450		402034074233301	211FRNG			U	Z	1928			230233
230234	NJ HOME FOR BOY	BOYS HOME 3	MONROE TWP	402036	0742344	95			402036074234401	211FRNG			U	Z				230234
230235	NJ HOME FOR BOY	1-1913	MONROE TWP	402036	0742351	110.00	314		402036074235101	211FRNG			U	Z	1913			230235
[illegible]	[illegible] FOR BOY	BOYS HOME 4	MONROE TWP	402038	0742345	95.00	432		402038074234301	211FRNG	410.00	440.00	U	Z	19630513	28-01653		230236
[illegible]	[illegible]	FORSGATE FARM4	MONROE TWP	402038	0742755	140.00	222		402038074275501	211ODBG	178.00	222.00	U	Z	19541115	28-01241		230237
230238	FORSGATE FARMS	FARM WELL 4-R	MONROE TWP	402038	0742755	145.00	367		402038074275502	211FRNG	337.00	367.00	M	W	19641008	28-05123		230238
230239	FORSGATE FARMS	3	MONROE TWP	402040	0742801	145.00	600		402040074280101	211ODBG	184.00	200.00	M	W	19470915			230239
230240	FORSGATE W C	12-1961	MONROE TWP	402051	0742746	140.00	353		402051074274601	211FRNG	305.00	353.00	P	W	19610315	28-04090		230240
230240	MONROE TWP MUA	12-1961	MONROE TWP	402051	0742746	140.00	353		402051074274601	211FRNG			P	W				230240
230241	BICA, NICHOLAS	BICA 1	MONROE TWP	402056	0742516	80.00	105		402058074251801	211FRNG	101.00	105.00	U	Z	19540318			230241
230242	DIPPIERO, VITO	1949	MONROE TWP	402104	0742453	110.00	113		402104074245301	211ODBG	110.00	113.00	U	U	19490620			230242
230242	HAAK, CARMELLA	1949	MONROE TWP	402104	0742453	110.00	113		402104074245301	211ODBG			U	U				230242
230243	DUHERNAL W CO	DUHRNL OBS 41F	MONROE TWP	402123	0742215	44.75	348		402126074221501	211ODBG	340.00	348.00	U	D	19441103			230243
230244	REESE, AUGUST	1971	MONROE TWP	402131	0742245	60.00	158		402131074224501	211FRNG	152.00	158.00	M	W	19710428			230244
230245	RELIABLE WC	RELIABLE 1	MONROE TWP	402202	0742305	55.00	161		402232074231601	211ODBG	131.00	161.00	P	W	1963	28-04638		230245
230245	MONROE TWP MUA	RELIABLE 1	MONROE TWP	402202	0742305	55.00	161		402232074231601	211ODBG			P	W				230245
230245	MONROE TWP MUA	RELIABLE 1	MONROE TWP	402202	0742305	55.00	161		402232074231601	211ODBG			P	W				230245
230246	RELIABLE WC	RELIABLE 2	MONROE TWP	402202	0742305	55.00	155		402233074231601	211ODBG	143.00	153.00	P	W	19561219			230246
230246	MONROE TWP MUA	RELIABLE 2	MONROE TWP	402202	0742305	55.00	155		402233074231601	211ODBG			P	W				230246
230246	MONROE TWP MUA	RELIABLE 2	MONROE TWP	402202	0742305	55.00	155		402233074231601	211ODBG			P	W				230246
230247	BOMMA, ANTHONY	3-1967	MONROE TWP	402243	0742419	30.00	65.0		402243074241901	211ODBG	61.00	65.00	M	W	1967			230247
230248	AMENDOLA VINCEN	MONROE TWP	MONROE TWP	402247	0742410	30.00	55.0		402247074241001	211ODBG	51.00	55.00	M	W	19670613			230248
230249	ZARINS, ARTURS	1	MONROE TWP	402248	0742412	30.00	61.0		402248074241201	211ODBG	57.00	61.00	M	W	19670429			230249
230250	DUHERNAL W CO	DUHERNL OBS 10	MONROE TWP	402252	0742301	22.44	[illegible]		402252074230101	211ODBG	83.00	93.00	U	D	19381103			230250
230251	ANACONDA COPPER	11	PERTH AMBOY CITY	403028	0741643	20.00	40.0		403028074164301	211FRNG	27.00	40.00	U	U	19481127			230251
230251	RARITAN R STEEL	11	PERTH AMBOY CITY	403028	0741643	20.00	40.0		403028074164301	211FRNG			U	U				230251
230251	RARITAN STEEL C	11	PERTH AMBOY CITY	403028	0741643	20.00	40.0		403028074164301	211FRNG			U	U				230251
230252	ANACONDA COPPER	18	PERTH AMBOY CITY	403028	0741645	25	55.0		403028074164501	211FRNG			U	Z	1926			230252
230252	RARITAN R STEEL	18	PERTH AMBOY CITY	403028	0741645	25	55.0		403028074164501	211FRNG			U	Z				230252
230252	RARITAN STEEL C	18	PERTH AMBOY CITY	403028	0741645	25	55.0		403028074164501	211FRNG			U	Z				230252
230253	ANACONDA COPPER	16 A	PERTH AMBOY CITY	403029	0741641	25.00	58.0		403029074164101	211FRNG	43.00	58.00	U	Z	1937			230253
230253	RARITAN R STEEL	16 A	PERTH AMBOY CITY	403029	0741641	25.00	58.0		403029074164101	211FRNG			U	Z				230253
230253	RARITAN STEEL C	16 A	PERTH AMBOY CITY	403029	0741641	25.00	58.0		403029074164101	211FRNG			U	Z				230253
230254	GEN CABLE CORP	2-1945	PERTH AMBOY CITY	403044	0741539	10.00	170		403044074153901	211FRNG			U	Z	1945			230254
230254	PRECISION TECH PRODUCTS	2-1945	PERTH AMBOY CITY	403044	0741539	10.00	170		403044074153901	211FRNG			U	Z				230254
230255	CARBORUNDUM CO	1	PERTH AMBOY CITY	403046	0741827	15.00	67.0		403046074182701	211FRNG	57.00	67.00	M	W	19350822			230255
230256	AMBOY ICE CO	AMBOY ICE 1	PERTH AMBOY CITY	403049	0741659		160		403049074165901	211FRNG	130.00	160.00	U	Z	1937			230256
230257	ALL STAR DAIRY	ALL STAR 1	PERTH AMBOY CITY	403052	0741654	61.00	158		403052074165401	211FRNG			U	U	1932			230257
230258	MECHANIC REALTY	1 (R&H CHEM C)	PERTH AMBOY CITY	403054	0741547	10.00	149		403054074154701	211FRNG	141.00	149.00	M	W	1913			230258
230259	AT TERRA CEOTTA	ATLANTIC 1	PERTH AMBOY CITY	403055	0741531		140		403055074153101	211FRNG			U	Z	1918			230259
230260	MORTON SALT	PERTH AMBOY CITY	PERTH AMBOY CITY	403129	0741533	20.00	77.0	10.00	403129074153701	211FRNG	61.00	71.00	U	Z	19761026			230260
230260		PERTH AMBOY CITY	PERTH AMBOY CITY	403129	0741533	20.00	77.0		403129074153701	211FRNG	67.00	77.00	U	Z			402	230260
230261	CHEVRON OIL CO	1	PERTH AMBOY CITY	403150	0741603	30.00	[illegible]		403150074160301	211FRNG	74.00	83.00	M	W	1951		402	230261
230262	CHEVRON OIL CO	OBS 1	PERTH AMBOY CITY	403150	0741603	30.00	82.0		403150074160302	211FRNG	72.00	82.00	U	D				230262
230263	CHEVRON OIL CO	2	PERTH AMBOY CITY	403200	0741620	45.00	106		403200074162001	211FRNG	96.00	106.00	M	W	1930			230263
230264	CHEVRON OIL CO	OBS 2	PERTH AMBOY CITY	403200	0741620	45.00	106		403200074162002	211FRNG	96.00	106.00	U	D				230264
230265	CHEVRON OIL CO	11	PERTH AMBOY CITY	403211	0741612	13.74	94.0		403211074161301	211FRNG	11.00	94.00	U	D				230265
230266	CHEVRON OIL CO	3	PERTH AMBOY CITY	403211	0741631	40	96.0		403212074163501	211FRNG	87.00	96.00	U	U	1931			230266
230267	CHEVRON OIL CO	OBS 3	PERTH AMBOY CITY	403212	0741635	40.00	94.0		403212074163502	211FRNG	86.00	96.00	U	D				230267
230268	BIRD & SONS	1	PERTH AMBOY CITY	403217	0741621	20.00	64.0	8.00	403217074162101	211FRNG	40.00	64.00	M	W	19730724	26-04622	64.0	230268
230269	KEASBEY & MATTISO	1R	PERTH AMBOY CITY	403229	0741628	15.00	61.0		403229074162801	211FRNG			M	W	1959			230269
230270	AMERICAN CYANAMID CO	TEST 2	PERTH AMBOY CITY	403231	0741616	12.00	57.0		403231074161601	211FRNG	53.00	57.00	U	D				230270
230271	NJ WOOD FINISH	NJ WOOD 2	PERTH AMBOY CITY	403234	0741627	30.00	65.0		403234074162701	211FRNG			U	U	194202			230271
230271	ALPHA ASSOC	NJ WOOD 2	PERTH AMBOY CITY	403234	0741627	30.00	65.0		403234074162701	211FRNG			U	U				230271
230272	NJ WOOD FINISH	NJ WOOD 1	PERTH AMBOY CITY	403234	0741629	30.00	151		403234074162901	211FRNG			U	Z	1930			230272
230272	ALPHA ASSOC	NJ WOOD 1	PERTH AMBOY CITY	403234	0741629	30.00	151		403234074162901	211FRNG			U	Z				230272
230273	NJ WATER POLICY	PLNSBORO POND	PLAINSBORO TWP	401932	0743529	76.00	75.0		401932074352901	211MRPAM	70.00	75.00	U	D	19700916			230273

UNIQUE ID		LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	WELL DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230274	GERAGHTY, MILLER	4-5	PLAINSBORO TWP	401934	0743523	70.00	43.0		401934074352501	112BRDG	40.00	43.00	U	T	1970			230274
230275	GERAGHTY, MILLER	4-6	PLAINSBORO TWP	401935	0743531	60.00	43.0		401935074352101	112BRDG	40.00	43.00	U	T	1970			230275
230276	GERAGHTY, MILLER	4-2	PLAINSBORO TWP	401935	0743530	68.00	62.0		401935074353001	112BRDG	57.00	62.00	U	T	1970			230276
230277	GERAGHTY, MILLER	4-4	PLAINSBORO TWP	401936	0743525	60.00	43.0		401936074352501	112BRDG	40.00	43.00	U	T	1970			230277
230278	GERAGHTY, MILLER	4-7	PLAINSBORO TWP	401936	0743528	65.00	43.0		401936074352801	112BRDG	40.00	43.00	U	T	1970			230278
230279	GERAGHTY, MILLER	4-8	PLAINSBORO TWP	401936	0743531	60.00	43.0		401936074353101	112BRDG	40.00	43.00	U	T	1970			230279
230280	GERAGHTY, MILLER	4-1	PLAINSBORO TWP	401937	0743522	60.00	43.0		401937074352201	112BRDG	40.00	43.00	U	T	1970			230280
230281	GERAGHTY, MILLER	4-2	PLAINSBORO TWP	401938	0743528	60.00	23.0		401938074352801	112BRDG	20.00	23.00	U	T	1970			230281
230282	GERAGHTY, MILLER	4-3	PLAINSBORO TWP	401938	0743530	70.00	24.0		401938074353001	112BRDG	21.00	24.00	U	T	1970			230282
230283	SIMONSON BROS	2	PLAINSBORO TWP	402006	0743319	90.00	80.0		402006074331901	211FRNG			I	W	19670419			230283
230284	SIMONSON BROS	1	PLAINSBORO TWP	402022	0743306	90.00	90.0		402022074330601	211FRNG			I	W	1932			230284
230285	JIS LANDFILL	4	SOUTH BRUNSWICK TWP	402159	0742744	111.00	82.0		402159074274401	112PNSK	62.00	82.00	U	D	197511			230285
230286	S T O REALTY	1968 WELL	SOUTH BRUNSWICK TWP	402016	0743019	105.00	125		402016074301901	211DDBG	122.00	125.00	N	W	1968			230286
230287	FORSGATE W C	OBS 1	SOUTH BRUNSWICK TWP	402054	0742929	135.00	245		402051074294301	211FRNG	218.00	228.00	U	Z	19560428			230287
230288	FORSGATE W C	TEST 1	SOUTH BRUNSWICK TWP	402054	0742929	133.00	200		402056074293601	211FRNG	190.00	200.00	U	U	19560423			230288
230289	MONROE TWP MUA	15(KIBBRY-CLK)	SOUTH BRUNSWICK TWP	402056	0742937	134.00	257		402056074293701	211FRNG	227.00	257.00	N	W	19560521			230289
230290	FORSGATE W C	OBS 2	SOUTH BRUNSWICK TWP	402057	0742946	140.00	228		402057074294901	211FRNG	218.00	228.00	U	Z	19560508			230290
230291	MONROE TWP MUA	OBS 1-1961	SOUTH BRUNSWICK TWP	402109	0743013	104.79	203		402109074301301	211FRNG	192.00	203.00	U	D	1961			230291
230292	MONROE TWP MUA	OBS 2-1961	SOUTH BRUNSWICK TWP	402109	0743012	106.87	104		402109074301302	211DDBG	93.00	104.00	U	D	1961			230292
230293	FORSGATE W C	OBS 3	SOUTH BRUNSWICK TWP	402113	0742922	115.00	205		402114074292901	211FRNG	193.00	205.00	U	Z	19560510			230293
230294	KORLESKI	KORLESKI 1	SOUTH BRUNSWICK TWP	402124	0742824	140.00	104		402124074282401	211DDBG			U	U				230294
230295	GREFCO INC	LAKES CARBON 1	SOUTH BRUNSWICK TWP	402123	0742920	120.00	233		402123074292001	211FRNG	187.00	233.00	N	W	19661121	28-06050		230295
230296	INTERN PERMALITE	LAKES CARBON 2	SOUTH BRUNSWICK TWP	402123	0742920	120.00	233		402123074292001	211FRNG			N	W				230296
230297	QUALITY EGG CO	2 (ABEEL.J.F.)	SOUTH BRUNSWICK TWP	402126	0742939	115.00	97.0		402126074293901	211DDBG			U	U				230297
230298	QUALITY EGG CO	1 (ABEEL.J.F.)	SOUTH BRUNSWICK TWP	402124	0742935	115.00	175		402128074294301	211FRNG	164.00	175.00	U	Z	19570529			230298
230299	STAUFFER CHEM	1	SOUTH BRUNSWICK TWP	402129	0742901	122.60	237		402129074290101	211FRNG	217.00	237.00	N	W	19650603			230299
230300	BADIBNE PRODUCT	J-4	SOUTH BRUNSWICK TWP	402130	0742821	120.00	127		402130074282101	211DDBG	109.00	129.00	N	W		28-11349	300	230300
230300	BASF-WYANDOTTE	J-4	SOUTH BRUNSWICK TWP	402130	0742821	120.00	127		402130074282101	211DDBG	107.00	127.00	N	W	1936		300	230300
230301	FORSGATE W C	BASF 2	SOUTH BRUNSWICK TWP	402128	0742824	130.00	288		402133074282401	211FRNG	248.00	288.00	N	W	19660924			230301
230302	FORSGATE W C	BASF 2	SOUTH BRUNSWICK TWP	402128	0742824	130.00	288		402133074282401	211FRNG			N	W				230302
230302	MONROE TWP MUA	OBS 4	SOUTH BRUNSWICK TWP	402132	0742919	110.00	215		402133074292301	211FRNG	202.00	212.00	U	Z	19560511			230302
230302	SOUTH BRUNSWICK MUA	FORSGATE 14	SOUTH BRUNSWICK TWP	402138	0742940	115.00	200		402134074294001	211FRNG	170.00	200.00	P	W	19530414			230302
230303	PHELPS DODGE CO	FORSGATE 14	SOUTH BRUNSWICK TWP	402138	0742940	115.00	200		402134074294001	211FRNG			P	W				230303
230304	PHELPS DODGE CO	FORSGATE 14	SOUTH BRUNSWICK TWP	402138	0742940	115.00	200		402134074294001	211FRNG			P	W				230304
230305	PHELPS DODGE CO	2-1957	SOUTH BRUNSWICK TWP	402139	0742820	125.00	227		402139074282001	211MRPA	197.00	227.00	N	W	19570612			230305
230306	PHELPS DODGE CO	IR-1962	SOUTH BRUNSWICK TWP	402143	0742821	127.00	222		402143074282101	211FRNG	192.00	222.00	N	W	19620103			230306
230307	KORDUS, TEDDY	1-1957	SOUTH BRUNSWICK TWP	402143	0742821	127.00	225		402143074282102	211FRNG	205.00	225.00	U	Z	19570314			230307
230308	JIS LANDFILL	PHELPS DODGE 3	SOUTH BRUNSWICK TWP	402147	0742847	120.00	207		402147074284701	211FRNG	201.00	207.00	U	D	1968			230308
230309	JIS LANDFILL	1	MONROE TWP	402150	0742744	120.00	120		402150074274401	211DDBG	100.00	120.00	I	W	1961			230309
230310	PERMUTIT CORP	2	SOUTH BRUNSWICK TWP	402154	0742758	125.40	71.0		402151074275201	112PNSK	51.00	71.00	U	D	197309			230310
230310	SYBRON CHEMICAL INC	1	SOUTH BRUNSWICK TWP	402151	0742751	122.20	81.0		402155074280101	112PNSK	61.00	81.00	U	D	197309			230310
230311	SOUTHWARD, R M	4-(28-6108)	SOUTH BRUNSWICK TWP	402159	0743510	110.00	79.0		402159074351001	211FRNG	69.00	79.00	N	W	19661209			230311
230312	PERMUTIT CORP	4-(28-6108)	SOUTH BRUNSWICK TWP	402159	0743510	110.00	79.0		402159074351001	211FRNG			N	W				230312
230312	SYBRON CHEMICAL INC	1(WINCKNAN,W)	SOUTH BRUNSWICK TWP	402159	0743017	105.0	107		402200074304801	211FRNG	104.00	107.00	N	W	19570112			230312
230313	PERMUTIT CORP	TEST HOLE 1	SOUTH BRUNSWICK TWP	402200	0743514	120.00	77.0		402200074351402	211FRNG	72.00	77.00			19661208			230313
230313	SYBRON CHEMICAL INC	TEST HOLE 1	SOUTH BRUNSWICK TWP	402200	0743514	120.00	77.0		402200074351402	211FRNG								230313
230314	PERMUTIT CORP	TEST HOLE 2	SOUTH BRUNSWICK TWP	402200	0743514	120.00	77.0		402200074351403	211FRNG	72.00	77.00	U	T	1966			230314
230314	SYBRON CHEMICAL INC	TEST HOLE 2	SOUTH BRUNSWICK TWP	402200	0743514	120.00	77.0		402200074351403	211FRNG			U	T				230314
230315	SOUTH BRUNSWICK MUA	TEST HOLE 3	SOUTH BRUNSWICK TWP	402200	0743514	120.00			402200074351404	211MRPA			U	T	1966			230315
230316	AEROCHEM CORP	TEST HOLE 3	SOUTH BRUNSWICK TWP	402200	0743514	120.00			402200074351404	211MRPA			U	T				230316
230317	JIS LANDFILL	13	SOUTH BRUNSWICK TWP	402204	0743024	102.20	138		402204074302401	211FRNG	103.00	138.00	P	W	19710803			230317
230318	AEROCHEM CORP	AEROCHEM 2	SOUTH BRUNSWICK TWP	402206	0743515	120.00	100		402206074351501	211FRNG			C	W	1961			230318
230319	SOUTH BRUNSWICK MUA	3	SOUTH BRUNSWICK TWP	402207	0742755	109.70	71.0		402207074275501	112PNSK	51.00	71.00	U	D	197510			230319
230320	HOLSTEN JR.C.	ABANDONED WELL	SOUTH BRUNSWICK TWP	402207	0743517	120.00	100		402207074351701	211FRNG			U	U				230320
230322	SOUTH BRUNSWICK MUA	12	SOUTH BRUNSWICK TWP	402220	0742950	92.80	135		402220074294901	211FRNG	110.00	135.00	P	W	19631203			230322
230323	SMITH, LAWRENCE	1	SOUTH BRUNSWICK TWP	402223	0742824	100.00	182		402223074282401	211FRNG	162.00	182.00	I	W	19521125			230323
230325	MID EAST ALUM	11	SOUTH BRUNSWICK TWP	402230	0743040	122.00	115		402226074301301	211FRNG	95.40	115.40	P	W	19631028			230325
230326	SANTOMASSO, A J	1966	SOUTH BRUNSWICK TWP	402229	0742810	100.00	164		402229074281001	211FRNG	154.00	164.00	N	W	19660322			230326
230327	S BRUNSWICK BD ED	ANODIZING DIV	SOUTH BRUNSWICK TWP	402231	0743003	110.0	116		402233074300501	211FRNG	101.00	116.00	N	W	19631120	28-04665		230327
230328	GIBBS NURSERY	1	SOUTH BRUNSWICK TWP	402309	0743131	98.00	50.0		402309074313101	211FRNG	46.00	49.00	N	W	19570113			230328
230329	DEY BRDTHERS	HIGH SCHOOL	SOUTH BRUNSWICK TWP	402309	0743134	85.00	39.0		402309074313401	211FRNG	29.00	39.00	T	W	19591006			230329
230330	AHMED, MUSTAPHA	CIBBS 1973	SOUTH BRUNSWICK TWP	402310	0742433	130.00	96.0		402310074243501	211DDBG	86.00	96.00	N	W	19730402			230330
230331	DEY BRDTHERS	2	SOUTH BRUNSWICK TWP	402315	0742652	115.00	248		402315074265201	211FRNG	215.00	248.00	U	U	19550525			230331
230332	AHMED, MUSTAPHA	1	SOUTH BRUNSWICK TWP	402317	0742717	115.00	90.0		402317074271701	211FRNG	176.00	206.00	N	W	1936			230332
230333	FORGOTSON, SAM	3-1965	SOUTH BRUNSWICK TWP	402318	0742650	110.00	90.0		402318074265001	211DDBG			N	W	1965			230333
230334	FORGOTSON, SAM	2	SOUTH BRUNSWICK TWP	402319	0742708	105.00	268		402319074271101	211FRNG	178.00	208.00	I	W	19580627	28-03140		230334
230335	ELIZABETHTOWN W	1	SOUTH BRUNSWICK TWP	402357	0742632	107.00	49.0		402357074263201	211MRPA	45.00	49.00	U	Z	19530618			230335
230336	MIDDLESEX W C	S BRUNSWICK TWP	SOUTH BRUNSWICK TWP	402357	0742647				402357074264701				N	W				230336
230337	MIDDLESEX W C	834 CLINTON	SOUTH PLAINFIELD BORO	402624	0742122	70.00	350		403344074260901	231BRCK	77.00	350.00	P	W	19631029	25-13334		230337
230338	MIDDLESEX W C	31 PARK AVE	SOUTH PLAINFIELD BORO	403330	0742440	75.00	500		403350074244001	231BRCK	110.00	500.00	P	W	19681014			230338
230339	MIDDLESEX W C	28 PARK AVE	SOUTH PLAINFIELD BORO	403332	0742334	75.00	500		403352074233401	231BRCK	97.00	500.00	P	W	1964			230339
230340	MIDDLESEX W C	29 PARK AVE	SOUTH PLAINFIELD BORO	403333	0742337	75.00	500		403353074233701	231BRCK	109.00	500.00	P	W	1964			230340
230340	MIDDLESEX WATER CO	32 PARK AVE	SOUTH PLAINFIELD BORO	403334	0742332	75.00	501		403354074233201	231BRCK	88.00	501.00	P	W	196411			230340
230341	NJ WATER POLICY	30 PARK AVE	SOUTH PLAINFIELD BORO	403335	0742429	75.00	500	18	403355074233501	231BRCK	97.83	500	P	W	19640916			230341
230342	NJ WATER POLICY	QUIGLEY	SOUTH PLAINFIELD BORO	403355	0742429	75.00	500	12	403355074233501	231BRCK			P	W			500	230342
230343	NJ WATER POLICY	TECH TAPE 3	BAYREVILLE BORO	402516	0742131	10.00	29.0		402516074213101	112CPNY	26.00	29.00	U	D	1968		500	230343
230344	BAYREVILLE W D	SUN BISCUIT 5	BAYREVILLE BORO	402527	0742118	10.00	36.0		402527074211801	211DDBG	33.00	36.00	U	D	19680126			230344
230345	BAYREVILLE W D	BWD 2	BAYREVILLE BORO	402553	0742033	17.00	39.0		402553074203301	211DDBG	36.00	39.00	U	D	1968			230345
230346	BAYREVILLE W D	BWD J	BAYREVILLE BORO	402558	0742013	22.19	37.0		402558074201301	211DDBG	31.00	37.00	U	D	1957			230346
230347	BAYREVILLE W D	BWD N	BAYREVILLE BORO	402604	0742003	30.00	83.0		402604074200301	211DDBG	63.00	83.00	P	W	19631011			230347
230348	BAYREVILLE W D	BWD TEST 1	BAYREVILLE BORO	402604	0742004	27.00	81.0		402604074200401	211DDBG	71.00	81.00	P	W	19580908			230348
230349	NJ WATER POLICY	OBS WELL 101	BAYREVILLE BORO	402604	0742004	31.00	69.0		402604074200402	211DDBG	58.00	69.00	U	T	1963			230349
230350	BAYREVILLE W D	NAT LEAD 6	BAYREVILLE BORO	402605	0741957	29.90	279		402605074193701	211FRNG	269.00	279.00	U	D	19680729			230350
230351	BAYREVILLE W D	OBS WELL 102	BAYREVILLE BORO	402605	0742108	9.00	23.0		402603074210801	211RRTN	20.00	23.00	U	D	1968			230351
230352	BAYREVILLE W D	BWD 1	BAYREVILLE BORO	402608	0741955	30.40	277		402608074195501	211FRNG	267.00	277.00	U	D	19680904			230352
230353	BAYREVILLE W D	RECHARGE 1 M	BAYREVILLE BORO	402605	0741959	35.27	82.0		402608074195701	211DDBG	76.00	82.00	U	D				230353
230354	BAYREVILLE W D	OBS WELL 103	BAYREVILLE BORO	402605	0741958	34.00	280		402609074195201	211FRNG	225.00	280.00	U	W	19670712			230354
230355	BAYREVILLE W D	BWD C	BAYREVILLE BORO	402611	0741955	33.20	273		402611074195501	211FRNG	262.00	273.00	U	D	19680919			230355
		BWD A	BAYREVILLE BORO	402612	0742010	32.00	73.0		402612074201001	211DDBG	60.00	73.00	U	Z	19581006			
				402614	0741950	30.00	82.0		402614074195001	211DDBG	72.00	82.00	P	W	19690121			

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		N S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230356	BAYREVILLE W D	SWD F	BAYREVILLE BORO	402614	0741955	28.00	74.0		402614074195501	211DBG	53.00	74.00	P W	19590221			230356
230357	BAYREVILLE W D	SWD TEST 4	BAYREVILLE BORO	402616	0742029	20.00	89.0		402616074202901	211DBG	78.00	89.00	U T	1963			230357
230358	BAYREVILLE W D	SWD K	BAYREVILLE BORO	402617	0741945	48.00	90.0		402617074194501	211DBG	70.00	80.00	P W	19651006			230358
230359	BAYREVILLE W D	SWD D	BAYREVILLE BORO	402618	0741952	29.00	75.0		402618074195201	211DBG	64.00	75.00	P W	19580926			230359
230360	BAYREVILLE W D	SWD TEST 2	BAYREVILLE BORO	402618	0741952	50.00	78.0		402618074195202	211DBG	67.00	78.00	U T	1963			230360
230361	BAYREVILLE W D	SWD E	BAYREVILLE BORO	402619	0741958	28.00	62.0		402619074195801	211DBG	39.00	62.00	P W	1958			230361
230362	PERTH AMBOY WATER DEPARTM	AMBOY 60	BAYREVILLE BORO	402619	0742009	25.00	67.0		402619074200901	211DBG	52.00	67.00	P W	19701117			230362
230363	BAYREVILLE W D	TEST 1 1944	BAYREVILLE BORO	402620	0742039	23.00	205		402620074203901	211FRNG	185.00	205.00	U T	19441025			230363
230364	BAYREVILLE W D	SWD J	BAYREVILLE BORO	402620	0742124	5	107		402620074212401	211FRNG			U D	1937			230364
230365	DUHERNAL W CO	DUH BAY 4	BAYREVILLE BORO	402633	0742120	5.70	160		402633074212701	211FRNG	148.00	160.00	U D	1931			230365
230366	BAYREVILLE W D	SWD L	BAYREVILLE BORO	402624	0741939	63.00	89.0		402624074193901	211DBG	79.00	89.00	P W	19651202			230366
230367	BAYREVILLE W D	SWD G	BAYREVILLE BORO	402624	0741944	46.00	87.0		402624074194401	211DBG	36.00	87.00	P W	19600323			230367
230368	BAYREVILLE W D	I	BAYREVILLE BORO	402626	0741936	58.00	94.0		402626074193601	211DBG	83.00	94.00	P W	1960			230368
230369	BAYREVILLE W D	SWD M	BAYREVILLE BORO	402630	0741949	45.00	83.0		402630074194901	211DBG	67.00	83.00		19600816			230369
230370	HERCULES POWDER	HERCULES 6	BAYREVILLE BORO	402631	0742053	20.00	194		402631074205301	211FRNG	164.00	194.00	U W	19460805			230370
230371	HERCULES POWDER	HERCULES 8	BAYREVILLE BORO	402638	0742022	48.00	228		402638074202201	211FRNG	182.00	228.00	U W	19290319			230371
230372	BAYREVILLE W D	SWD TEST 5	BAYREVILLE BORO	402642	0741940	85.00	108		402642074194001	211DBG	98.00	108.00	U T	1963			230372
230373	BAYREVILLE W D	SWD TEST 6	BAYREVILLE BORO	402643	0741932	95.00	106		402643074193201	211DBG	93.00	106.00	U T	19630419			230373
230374	BAYREVILLE W D	SWD TEST 7	BAYREVILLE BORO	402647	0741936	110.00	60.0		402647074193601	211DBG	49.00	60.00	U T	1963			230374
230375	BAYREVILLE W D	SWD TEST 8	BAYREVILLE BORO	402648	0741930	100.00	128		402648074193001	211DBG	117.00	128.00	U T	1963			230375
230376	HERCULES POWDER	HERCULES 3	BAYREVILLE BORO	402649	0742025	40.80	220		402649074202501	211FRNG	180.00	220.00	N W	19280302			230376
230377	HERCULES POWDER	HERCULES DBS 2	BAYREVILLE BORO	402654	0742043	40.00	223		402654074204301	211FRNG	212.00	223.00	U D	1954			230377
230378	INSUL - CAUSTIC	1-1958	BAYREVILLE BORO	402654	0742126	20.00	120		402654074212601	211FRNG	110.00	120.00	N W	1958			230378
230379	DUHERNAL W CO	DUHRNL DBS 40F	BAYREVILLE BORO	402656	0742104	30.00	184		402656074210401	211FRNG			U Z	19440329			230379
230380	HERCULES POWDER	HERCULES 2	BAYREVILLE BORO	402659	0742020	47.50	237		402659074202001	211FRNG	184.00	237.00	N W	19271222			230380
230380		HERCULES 2	BAYREVILLE BORO	402659	0742020	47.50	237		402659074202001	211FRNG	181.00	237.00	N W				230380
230381	PARAGON BRICK COMPANY	PARAGON 1	BAYREVILLE BORO	402701	0742159		103		402701074215901	211FRNG			U W	1927			230381
230382	E I DUPONT	8	BAYREVILLE BORO	402703	0741859	93.00	118		402703074185901	211DBG	98.00	118.00	U Z	19371103			230382
230383	E I DUPONT	8A	BAYREVILLE BORO	402703	0741859	96.56	116		402703074185902	211DBG	97.00	116.00	N W	19540811			230383
230384	HERCULES POWDER	HERCULES 1REBT	BAYREVILLE BORO	402705	0742023	54.30	225		402705074202301	211FRNG	170.00	225.00	N W	19391229			230384
230385	DUHERNAL W CO	DUHRNL DBS 32F	BAYREVILLE BORO	402706	0742130	27.00	125		402706074213001	211FRNG			U Z				230385
230386	E I DUPONT	6	BAYREVILLE BORO	402701	0741917	102.00	314		402708074192201	211FRNG	253.00	314.00	N W	19300404			230386
230387	DUHERNAL W CO	DUHRNL DBS 39F	BAYREVILLE BORO	402711	0742045	40.00	193		402711074204501	211FRNG	183.00	193.00	U U	19430327			230387
230388	DUHERNAL W CO	DUHRNL DBS 59F	BAYREVILLE BORO	402711	0742045	40.00	223		402711074204302	211FRNG	212.00	223.00	U Z	1954			230388
230389	E I DUPONT	4	BAYREVILLE BORO	402710	0741910	106.92	309		402712074192101	211FRNG	237.00	304.00	N W	1928			230389
230389		5	BAYREVILLE BORO	402710	0741910	106.92	309		402712074192101	211FRNG	249.00	304.00	N W				230389
230390	HERCULES POWDER	HERCULES DBS 1	BAYREVILLE BORO	402712	0742045	55.00	198		402712074204501	211FRNG	187.00	198.00	U U	19530805			230390
230391	HERCULES POWDER	HERCULES 4	BAYREVILLE BORO	402711	0742030	46.70	226		402713074203201	211FRNG	163.00	172.00	U U	1928			230391
230391		HERCULES 4	BAYREVILLE BORO	402711	0742030	46.70	226		402713074203201	211FRNG	187.00	226.00	U U				230391
230392	E I DUPONT	1	BAYREVILLE BORO	402716	0741922	101.60	286		402715074192401	211FRNG	237.00	291.00	N W	1924			230392
230393	E I DUPONT	3	BAYREVILLE BORO	402715	0741932	94.38	284		402715074193201	211FRNG	246.00	285.00	N W	19250901			230393
230393		3	BAYREVILLE BORO	402715	0741932	94.38	284		402715074193201	211FRNG	244.00	284.00	N W				230393
230394	E I DUPONT	PARLIN DBS	BAYREVILLE BORO	402715	0741932	90.00	307		402715074193202	211WPA			U D				230394
230395	DUHERNAL W CO	DUHRNL DBS 33F	BAYREVILLE BORO	402715	0742050	36.00	175		402715074210201	211FRNG			U Z	1938			230395
230396	DUHERNAL W CO	DUHRNL DBS 27F	BAYREVILLE BORO	402718	0742213	8.00			402718074221301	211FRNG			U Z				230396
230397	DUHERNAL W CO	DUHRNL DBS 55F	BAYREVILLE BORO	402728	0742044	70.	189		402728074204401	211FRNG	169.00	173.00	U Z	19460324			230397
230397		DUHRNL DBS 55F	BAYREVILLE BORO	402728	0742044	70.	189		402728074204401	211FRNG	185.00	189.00	U Z				230397
230398	DUHERNAL W CO	DUHRNL DBS 58F	BAYREVILLE BORO	402736	0741949	90.00	255		402741074194901	211FRNG	250.00	253.00	U Z	19480916			230398
230399	DUHERNAL W CO	DUHRNL DBS 57F	BAYREVILLE BORO	402741	0741958	90.00	240		402741074195801	211FRNG	230.00	240.00	U Z	19480902			230399
230400	BAYREVILLE W D	R-1973	BAYREVILLE BORO	402745	0741645	100.00	82.0	20.00	402743074162101	211DBG	57.00	82.00	P W				230400
230401	BAYREVILLE W D	MORGAN P	BAYREVILLE BORO	402744	0741628	44.00	288		402744074162801	211FRNG	254.00	288.00	P W	19670609			230401
230402	BAYREVILLE W D	TEST WELL 3-69	BAYREVILLE BORO	402745	0741628	30.00	140		402745074162802	211DBG	119.00	140.00	U T	19690918			230402
230403	BAYREVILLE W D	SWD 8-1973	BAYREVILLE BORO	402745	0741631	40.00	136		402745074163101	211DBG	78.00	98.00	P W	19730126			230403
230403		SWD 8-1973	BAYREVILLE BORO	402745	0741631	40.00	136		402745074163101	211DBG	116.00	136.00	P W				230403
230404	BAYREVILLE W D	MORGAN DBS 1	BAYREVILLE BORO	402745	0741645	23.33	248		402746074314301	211FRNG	238.00	248.00	U D	19660602			230404
230405	C S PARKWAY	CHEESEQUAKE 2	BAYREVILLE BORO	402753	0741711	70.00	107		402753074171101	211WPA	88.00	107.00	U Z	19540623			230405
230406	DUHERNAL W CO	DUHRNL DBS 28F	BAYREVILLE BORO	402753	0742218	6.00	30.0		402753074221801	211FRNG			U Z				230406
230407	C S PARKWAY	CHEESEQUAKE 3	BAYREVILLE BORO	402802	0741627	73.00	122		402754074171401	211WPA			U Z	19600712			230407
230408	C S PARKWAY	CHEESEQUAKE 1	BAYREVILLE BORO	402802	0741627	73.00	122		402754074171402	211DDBG	92.00	121.30	U Z	19690806			230408
230409	DUHERNAL W CO	DUHRNL DBS 36F	BAYREVILLE BORO	402751	0742002	95.00	224		402755074200201	211FRNG	219.00	229.00	U Z	1941			230409
230410	DUHERNAL W CO	DUHRNL DBS 29F	BAYREVILLE BORO	402813	0742205	10.00	60.0		402813074220501	211FRNG	50.00	60.00	U Z				230410
230411	SOUTH AMBOY W D	SAWD 6	BAYREVILLE BORO	402822	0741630	10.00	234		402822074163001	211FRNG	209.00	234.00	U U	19470226 46-00144			230411
230412	SOUTH AMBOY W D	SAWD 5	BAYREVILLE BORO	402823	0741631	10.00	52.0		402823074163101	211DDBG			U Z	1937			230412
230413	SOUTH AMBOY W D	SAWD 9	BAYREVILLE BORO	402824	0741631	10.00	48.0		402824074163101	211DDBG	23.00	47.00	U Z	1965			230413
230414	SOUTH AMBOY W D	SAWD 10	BAYREVILLE BORO	402825	0741632	10.00	48.0		402825074163201	211DDBG	38.00	48.00	P W	19670322 26-04078			230414
230415	NL INDUSTRIES	4	BAYREVILLE BORO	402835	0741815	108.00	251		402831074181501	211FRNG	220.00	251.00	U W	1952			230415
230416	NJ STEEL & STRC	TEST WELL 2	BAYREVILLE BORO	402834	0741920	10.00	192		402834074192001	211FRNG	168.00	192.00	U T	1972			230416
230417	NJ STEEL & STRC	TEST WELL 1	BAYREVILLE BORO	402836	0741919	10.00	130		402836074191901	211FRNG	114.00	130.00	U T	19720414			230417
230418	NL INDUSTRIES	3	BAYREVILLE BORO	402843	0741808	117.00	270		402842074181101	211FRNG	240.00	270.00	U W	1934			230418
230419	NL INDUSTRIES	2	BAYREVILLE BORO	402854	0741804	104.00	253		402854074180501	211FRNG	220.00	253.00	U U	1934			230419
230420	NL INDUSTRIES	1-1934	BAYREVILLE BORO	402905	0741800	121.00	266		402905074180001	211FRNG	36.00	64.00	U Z	19340501			230420
230420		1-1934	BAYREVILLE BORO	402905	0741800	121.00	266		402905074180001	211FRNG	236.00	266.00	U Z				230420
230421	NL INDUSTRIES	TEST 3	BAYREVILLE BORO	402905	0741800	118.00		10.00	402905074180002	211FRNG			U Z	19340501		334	230421
230422	DUHERNAL W CO	DUHRNL DBS 35F	BAYREVILLE BORO	402920	0741804	65.00	156		402920074180401	211FRNG			U	19481004			230422
230423	NL INDUSTRIES	CL TEST 1	BAYREVILLE BORO	402943	0741808	30.00	84.0		402942074180901	211FRNG	73.00	84.00	U T	1936			230423
230424	DUHERNAL W CO	DUHRNL DBS 34F	BAYREVILLE BORO	402945	0741752	16.00	129		402945074175501	211FRNG			U Z				230424
230425	DUHERNAL W CO	PARLIN 60F	BAYREVILLE BORO	402729	0741937	147.00	288		402958074193801	211FRNG	282.00	288.00	U D	19660310			230425
230425	E I DUPONT	PARLIN 60F	BAYREVILLE BORO	402729	0741937	147.00	288		402958074193801	211FRNG			U D				230425
230427	SWAN HILL ICE C	SWAN HILL 1	SOUTH AMBOY CITY	402900	0741644	20.00	52.0		402904074164801	211DDBG	40.00	52.00	U Z	1922			230427
230428	JERS CENTRAL PL	WERMER STA 5	SOUTH AMBOY CITY	402922	0741636	9	160		402922074163801	211FRNG			U U	1936			230428
230429	JERS CENTRAL PL	WERMER STA 6	SOUTH AMBOY CITY	402923	0741648	18.00	177		402923074164801	211FRNG	154.00	177.00	U U	1949			230429
230430	JERS CENTRAL PL	7-1972	SOUTH AMBOY CITY	402923	0741651	12.00	165		402923074165101	211FRNG	133.00	165.00	N W	19721013			230430
230431	JERS CENTRAL PL	WERMER STA 4	SOUTH AMBOY CITY	402926	0741649	10.00	168		402926074165001	211FRNG	143.00	168.00	U Z	1952			230431
230432	SOUTH RIVER W D	SRWD 4	SOUTH RIVER BORO	402557	0742138	18.30	182	9.00	402557074213802	211FRNG	149.50	179.50	P W	19730512 28-08788		207	230432
230432		SRWD 4	SOUTH RIVER BORO	402557	0742138	18.30	182		402557074213802	211FRNG	150.00	180.00	P W			207	230432
230433	NJ WATER POLICY	SO RIVER 4	SOUTH RIVER BORO	402535	0742133	20.00	33.0		402535074213301	211DDBG	30.00	33.00	U D	19680126			230433
230434	SOUTH RIVER W D	SRWD 2	SOUTH RIVER BORO	402536	0742141	20.00	198		402536074214101	211FRNG	173.00	198.00	P W	1952	28-00332		230434
230435	SOUTH RIVER W D	INFIL GALLERY	SOUTH RIVER BORO	402536	0742141	20.00	15.0		402536074214102	211DDBG			P W	1916			230435
230436	SOUTH RIVER W D	SRWD 1	SOUTH RIVER BORO	402557	0742138	20.00	193		402557074213801	211FRNG	163.00	192.00	P W	1922			230436
230437	SOUTH RIVER W D	SRWD 3	SOUTH RIVER BORO	402539	0742142	19.70	198		402539074214201	211FRNG	162.00	198.00	U Z	19670302 28-06069			230437

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230438	SOUTH RIVER BOR	SRWD	SOUTH RIVER BORO	402559	0742142	19.70	187	12.00	402559074214202	211FRNG	132.00	182.00	P	W	197707	28-09722	202	230438
230438	SOUTH RIVER W D	SRWD	SOUTH RIVER BORO	402559	0742142	19.70	187		402559074214202	211FRNG			P	W			202	230438
230439	SOUTH RIVER W D	SRWD 2 OBS	SOUTH RIVER BORO	402633	0742200	20.69	126		402633074220001	211FRNG	121.00	126.00	U	O	1967			230439
230440	CHADWICK, THOMAS	1	SOUTH RIVER BORO	402648	0742226	15.00	195		402647074222701	211FRNG			N	W	1922			230440
230440	BUE CAB CO	1	SOUTH RIVER BORO	402648	0742226	15.00	195		402647074222701	211FRNG			N	W				230440
230440	HODGES BUS CO	1	SOUTH RIVER BORO	402648	0742226	15.00	195		402647074222701	211FRNG			N	W				230440
230441	HERBERT SAND CO	HSC 3	SOUTH RIVER BORO	402742	0742309	6.40	52.0		402748074230601	211FRNG	49.00	52.00	U	T	1964			230441
230442	SPOTSWOOD WD	SWWD 3	SPOTSWOOD BORO	402252	0742432	30.00	91.0		402252074243201	211ODBG	63.30	77.92	P	W	197306	28-07828		230442
230442		SWWD 3	SPOTSWOOD BORO	402252	0742432	30.00	91.0		402252074243201	211ODBG	64.00	78.00	P	W				230442
230443	SPOTSWOOD WD	TEST WELL 3	SPOTSWOOD BORO	402329	0742318	20.00	79.0		402318074233301	211ODBG	59.00	79.00	U	T	19700727			230443
230444	DUHERNAL W CO	DUHERNAL 9	SPOTSWOOD BORO	402326	0742313	14.34	72.0		402326074231301	211ODBG	62.00	72.00	U	O	19381026			230444
230445	SPOTSWOOD WD	TW 4F-76	SPOTSWOOD BORO	402328	0742318	12.00	264	12.00	402328074231801	211FRNG	195.00	215.00	U	T	197607		328	230445
230445		TW 4F-76	SPOTSWOOD BORO	402328	0742318	12.00	264		402328074231801	211FRNG	219.00	239.00	U	T			328	230445
230445		TW 4F-76	SPOTSWOOD BORO	402328	0742318	12.00	264		402328074231801	211FRNG	254.00	264.00	U	T			328	230445
230446	DUHERNAL W CO	DUHRNL OBS 50F	SPOTSWOOD BORO	402328	0742331	20.00	280		402328074233101	211FRNG	244.00	251.00	U	Z	19460427			230446
230446		DUHRNL OBS 50F	SPOTSWOOD BORO	402328	0742331	20.00	280		402328074233101	211FRNG	273.00	280.00	U	Z				230446
230447	SPOTSWOOD WD	SWWD 1	SPOTSWOOD BORO	402329	0742319	18.00	85.0		402329074231901	211ODBG	64.00	85.00	P	W	19361126	28-02172		230447
230448	SPOTSWOOD WD	SWWD 2	SPOTSWOOD BORO	402330	0742316	20.00	83.0		402330074231601	211ODBG	62.00	83.00	U	Z	19571122	28-02173		230448
230449	DUHERNAL W CO	DUHERNAL 17	SPOTSWOOD BORO	402352	0742250		60.0		402352074225001	211MRPA			U	D				230449
230450	DUHERNAL W CO	DUHERNL OBS 11	SPOTSWOOD BORO	402400	0742245		69.0		402400074224501	211MRPA			U	D				230450
230451	SCHWEITZER, P J	5	SPOTSWOOD BORO	402401	0742243	36.00	89.0		402401074224301	211ODBG	69.00	89.00	N	W	19410826			230451
230452	SCHWEITZER, P J	8	SPOTSWOOD BORO	402401	0742243	25.00	276		402401074224302	211FRNG	226.00	276.00	N	W	19470522			230452
230453	SCHWEITZER, P J	1	SPOTSWOOD BORO	402404	0742235	30.00	285		402404074223501	211FRNG	265.00	285.00	U	Z	19290121			230453
230454	SCHWEITZER, P J	3	SPOTSWOOD BORO	402404	0742235		70.0		402404074223503	211ODBG	49.00	74.00	N	W	19290321			230454
230455	SCHWEITZER, P J	2	SPOTSWOOD BORO	402404	0742235		61.0		402404074223504	211ODBG	36.00	61.00	N	W	19290129			230455
230456	SCHWEITZER, P J	1R	SPOTSWOOD BORO	402404	0742235	21.00	275		402404074223505	211FRNG	235.00	275.00	N	W	19560606			230456
230457	SCHWEITZER, P J	6	SPOTSWOOD BORO	402405	0742247	30.00	73.0		402405074224701	211ODBG	53.00	73.00	N	W	19421024			230457
230458	SCHWEITZER, P J	7	SPOTSWOOD BORO	402408	0742243	33.00	76.0		402408074224301	211ODBG	61.00	76.00	N	W	19460625			230458
230459	SCHWEITZER, P J	3R	SPOTSWOOD BORO	402412	0742248	35.00	68.0		402412074224801	211ODBG	58.00	68.00	N	W	19600218			230459
230460	SCHWEITZER, P J	9	SPOTSWOOD BORO	402421	0742230	25.00	63.0		402421074223001	211ODBG	53.00	63.00	N	W	19610324			230460
230461	SCHWEITZER, P J	4R	SPOTSWOOD BORO	402421	0742231	33.00	57.0		402421074223101	211ODBG	47.00	57.00	N	W	19610216			230461
230462	UNION CARBIDE	CARBIDE 1	WOODBRIDGE TWP	403043	0741842	15.00	57.0		403043074184201	211FRNG	47.00	57.00	N	W	19650928			230462
230463	HEYDEN CHEM CO	1	WOODBRIDGE TWP	403050	0741916	10.00	190		403050074191601	231BRCK			N	W	1934			230463
230464	HEYDEN CHEM CO	3-1934	WOODBRIDGE TWP	403050	0741916	10.00	50.0		403050074191602	211FRNG			N	W	1934			230464
230465	HEYDEN CHEM CO	4-1934	WOODBRIDGE TWP	403050	0741916	10.00	45.0		403050074191603	211FRNG			N	W	1934			230465
230466	CATALIN CORP	1	WOODBRIDGE TWP	403051	0741931	10.00	38.0		403051074193101	211FRNG			N	W	1940			230466
230467	CATALIN CORP	2	WOODBRIDGE TWP	403051	0741931	10.00	32.0		403051074193102	211FRNG			N	W	1940			230467
230468	CATALIN CORP	3	WOODBRIDGE TWP	403051	0741931	10.00	42.0		403051074193103	211FRNG			N	W	1940			230468
230469	CATALIN CORP	4	WOODBRIDGE TWP	403051	0741931	10.00	31.0		403051074193104	211FRNG			N	W	1940			230469
230470	CATALIN CORP	5	WOODBRIDGE TWP	403051	0741931	10.00	34.0		403051074193105	211FRNG			N	W	1944			230470
230471	CATALIN CORP	6	WOODBRIDGE TWP	403051	0741931	10.00	210		403051074193106	231BRCK			N	W	1944			230471
230472	AMERICAN CYANAMID CO	CYAN WDBRG P3	WOODBRIDGE TWP	403233	0741620	15.00	80.0		403233074162001	211MRPA			U	Z	19470131			230472
230473	SWIFT AND CO	SWIFT 1	WOODBRIDGE TWP	403233	0741633	30.00	59.0		403233074163301	211FRNG	39.00	59.00	N	W	19531125			230473
230473	HAAGEN DAIS INC	SWIFT 1	WOODBRIDGE TWP	403233	0741633	30.00	59.0		403233074163301	211FRNG			N	W				230473
230474	SWIFT AND CO	RECHARGE WELL	WOODBRIDGE TWP	403233	0741633		61.0		403233074163302	211FRNG	41.00	61.00	N	W	19531210			230474
230474	HAAGEN DAIS INC	RECHARGE WELL	WOODBRIDGE TWP	403233	0741633		61.0		403233074163302	211FRNG			N	W				230474
230475	CLOVER GREEN DY	DAIRY WELL	WOODBRIDGE TWP	403233	0741647	43.00	68.0		403233074164701	211FRNG			N	W	1936			230475
230476	NJ WOOD FINISH	NJ WOOD 3	WOODBRIDGE TWP	403234	0741633	35.00	77.0		403234074163301	211FRNG			N	W	19420227			230476
230476	ALPHA ASSOC	NJ WOOD 3	WOODBRIDGE TWP	403234	0741633	35.00	77.0		403234074163301	211FRNG			N	W				230476
230477	VULCAN DETINING	1	WOODBRIDGE TWP	403236	0741543	10.00	10.0		403236074154301	211FRNG			N	W	1913			230477
230478	AMERICAN CYANAMID CO	CYANAMID 2A	WOODBRIDGE TWP	403236	0741616	9.00	60.0		403236074161601	211FRNG	45.00	60.00	N	W	19381215	26-01889		230478
230479	AMERICAN CYANAMID CO	CYAN WDBRG P2	WOODBRIDGE TWP	403236	0741616	13.00	74.0		403236074161602	211FRNG	44.00	54.00	U	Z	19470129			230479
230479		CYAN WDBRG P2	WOODBRIDGE TWP	403236	0741616	15.00	74.0		403236074161602	211FRNG	46.00	56.00	U	Z				230479
230479		CYAN WDBRG P2	WOODBRIDGE TWP	403236	0741616	15.00	74.0		403236074161602	211FRNG	63.00	73.00	U	Z				230479
230479		CYAN WDBRG P2	WOODBRIDGE TWP	403236	0741619	15.00	74.0		403236074161602	211FRNG	64.00	75.00	U	Z				230479
230480	AMERICAN CYANAMID CO	CYAN WDBRG P1	WOODBRIDGE TWP	403236	0741617	10.00	28.0		403236074161701	211FRNG			U	Z	1910			230480
230481	VULCAN DETINING	2	WOODBRIDGE TWP	403238	0741542	10.00	15.0		403238074154201	211FRNG			N	W	1927			230481
230482	AMERICAN CYANAMID CO	TEST 1	WOODBRIDGE TWP	403242	0741617	11.00	76.0		403242074161701	211FRNG	44.00	54.00	U	O				230482
230482		TEST 1	WOODBRIDGE TWP	403242	0741617	11.00	76.0		403242074161701	211FRNG	64.00	76.00	U	O				230482
230483	PORT READING CO	READING 18	WOODBRIDGE TWP	403406	0741431	10.00	45.0		403406074143101	211FRNG			N	W				230483
230484	PORT READING CO	READING 6	WOODBRIDGE TWP	403406	0741433	10.00	42.0		403406074143301	211FRNG			N	W				230484
230485	PORT READING CO	READING 14	WOODBRIDGE TWP	403406	0741441	10.00	30.0		403406074144101	211FRNG			N	W				230485
230486	PORT READING CO	READING 16	WOODBRIDGE TWP	403407	0741436	10.00	42.0		403407074143601	211FRNG			N	W				230486
230487	READING RAILROAD	2	WOODBRIDGE TWP	403407	0741447	20.00	41.0		403407074144701	211FRNG	31.00	41.00	N	W	19480512			230487
230488	READING RAILROAD	1	WOODBRIDGE TWP	403407	0741447	20.00	41.0		403407074144702	211FRNG	31.00	41.00	N	W	19480422			230488
230489	PORT READING CO	READING 17	WOODBRIDGE TWP	403408	0741433	10.00	41.0		403408074143301	211FRNG			N	W				230489
230490	MONROE TWP MUA	B-M	MONROE TWP	401925	0742420	167.00	325	20.00	401925074242002	211ODBG	287.00	325.00	I	W	197410	28-08490	329	230490
230491	ELIZABETHTOWN W	PLAINSBORO 1	PLAINSBORO TWP	401937	0743431	70.00	67.0	0.00	401937074343101	211FRNG	47.00	67.00	P	W	197803	28-09278	77.0	230491
230492	BASF-WYANDOTTE	BASF 3	SOUTH BRUNSWICK TWP	402129	0742823	130.00	276	13.00	402129074282302	211FRNG	230.00	276.00	N	W	19780428		300	230492
230493	SCHWEITZER, P J	10	EAST BRUNSWICK TWP	402410	0742247	5.00	73.0		402410074224701	211ODBG	62.00	72.00	N	W			73.0	230493
230494	SPOTSWOOD WD	SWWD 5	SPOTSWOOD BORO	402329	0742331	23.00	97.0		402338074231501	211ODBG	83.00	97.00	P	W	19780623	28-10465	104	230494
230495	STANLEY CORP RUSSELL	1	WOODBRIDGE TWP	403234	0741630	40.00	40.0		403234074163001	211FRNG			N	W	19680403			230495
230496	FORSGATE INC	MONROE 2	MONROE TWP	402046	0742732	120.00	144		402046074273201	211ODBG	135.00	144.00	N	W	19760224		144	230496
230497	FORSGATE INC	MHM WELL	MONROE TWP	402109	0742747	130.00	114		402109074274701	211ODBG	109.00	114.00	N	W	19750415		115	230497
230498	FORSGATE INC	MONROE 3	MONROE TWP	402054	0742806	140.00	98.0		402054074280601	211ODBG	92.00	98.00	N	W	19760226		99.0	230498
230499	SPOTSWOOD WD	SWWD 4F	SPOTSWOOD BORO	402328	0742318	20.00	287		402328074231802	211FRNG	198.00	282.00	P	W	19770428	28-09359	325	230499
230500	SOUTH BRUNSWICK TOWNSHIP	BROADWAY 1	SOUTH BRUNSWICK TWP	402018	0743021	105.00	161		402018074302101	211ODBG	131.00	161.00	U	Z	197807			230500
230501	SOUTH BRUNSWICK TOWNSHIP	DAVID ML 1	SOUTH BRUNSWICK TWP	402347	0741726	100.00	170		402347074172601	211MRPA	150.00	170.00	U	Z	197807			230501
230502	ANHEUSER BUSCH	BUSCH 7	EAST BRUNSWICK TWP	402432	0742215	38.00	260	24.00	402432074221501	211FRNG	210.00	260.00	I	W	19780321	28-10174	310	230502
230503	DONAITIS, PETER	DONAITIS 1	MONROE TWP	401938	0742404	140.00	440	8.00	401938074240401	211FRNG	410.00	440.00	I	W	19640930		440	230503
230504	FORSGATE INC	1-IRR	MONROE TWP	402047	0742820	141.00	340		402047074282001	211FRNG	288.00	308.00	I	W	19720717		365	230504
230504		1-IRR	MONROE TWP	402047	0742820	141.00	340		402047074282001	211FRNG	325.00	340.00	I	W			365	230504
230505	DYAL, LEROY	DYAL2-1967	CRANBURY TWP	401920	0743247	90.00	82.0		401920074324701	211ODBG	20.00	30.00	I	W	19670609		82.0	230505
230505		DYAL2-1967	CRANBURY TWP	401920	0743247	90.00	82.0		401920074324701	211ODBG	40.00	80.00	I	W			82.0	230505
230506	SMITH, LAURENCE LAWRENCE	3-1958	EAST BRUNSWICK TWP	402358	0742612	120.00	223		402401074261201	211FRNG	213.00	223.00	I	W	19580711		235	230506
230507	BANGER, FRANK	UNUSED DOM	CRANBURY TWP	401801	0743154	105.00	130		401801074315401	211ODBG			U	U				230507
230508	BANGER, FRANK	DOMEST-73	CRANBURY TWP	401801	0743154	105.00	90.0		401801074315402	211ODBG			N	W	1973			230508
230509	HAPPI TRUCK CO	MART MASON	OLD BRIDGE TWP	402530	0741602	130.00	136		402530074160202	211ODBG	126.00	136.00	U	Z	19610818			230509
230510	IBM CORP	GW 20	SOUTH BRUNSWICK TWP	402234	0743114	118.70	65.0	0.00	402234074311401	211FRNG	30.00	65.00	U	O	19780223	28-10269	66.5	230510
230511	IBM CORP	S BRUNSWICK TWP	SOUTH BRUNSWICK TWP	402232	0743114	117.70	95.0		402234074311402	211FRNG	65.00	95.00	N	W				230511

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230512	ERDMAN, W	E BRUNSWICK TWP	EAST BRUNSWICK TWP	402531	0742822	85.00			402531074282201	211FRNG			M	W				230512
230513	WILLIAMS, BOB	E BRUNSWICK TWP	EAST BRUNSWICK TWP	402357	0742632	95.00	20.0		402357074263202	211FRNG			S	W				230513
230514	HERBERT SAND CO	E BRUNSWICK TWP	EAST BRUNSWICK TWP	402755	0742258	4.90	35.0	6.00	402755074225801	211FRNG	25.00	35.00	N	W	19760820		40.0	230514
230515	RAAB, GEORGE	E BRUNSWICK TWP	EAST BRUNSWICK TWP	402425	0742520	109.00			402425074252001	211ODBG			I	W				230515
230516	NOVAK	HULSART	OLD BRIDGE TWP	402123	0741849	110.06	19.0		402122074184601	211EGLS	0.00	19.00	U	O				230516
230517	KAISER AG CHEM	MONROE TWP	MONROE TWP	401923	0742830	120.00	196		401923074283001	211ODBG	165.00	196.00	N	W			300	230517
230519	COMPUTER SYSTEMS	NJE-AIR CONDITIO	SOUTH BRUNSWICK TWP	402155	0743213	80	347	12	402209074313401	231SCKN	205.00	347.00	A	W	19600217	28-03746	347	230519
230519	NJE CORP	NJE-AIR CONDITIO	SOUTH BRUNSWICK TWP	402155	0743213	80	347		402209074313401	231SCKN			A	W			347	230519
230520	BOYKO, OLLIE	1	PLAINSBORO TWP	402044	0743342	80.00	73.0	6.00	402044074334201	211FRNG	68.00	73.00	N	W	19761019	28-09369	75.0	230520
230521	COLUMBIAN CARBN	COLUMBIAN 1	PLAINSBORO TWP	402023	0743740	80.00	300		402023074374001	231LCKG			N	W		48-00030		230521
230522	SCHWEITZER, P J	11	SPOTSWOOD BORO	402413	0742241	25.00	63.0	24.00	402348074230201	211ODBG	53.00	63.00	N	W	19781014		68.0	230522
230523	STANLEY CORP	2	PERTH AMBOY CITY	403229	0741635	15.0	61.5	14.00	403217074164101	211FRNG	46.50	61.50	N	W	19770616		62.0	230523
230524	BIRD & SONS	2	PERTH AMBOY CITY	403212	0741619	20.00	67.0	12.00	403212074161901	211FRNG	57.00	67.00	N	W	19791008	26-04798	67.0	230524
230525	FORRESTAL LABS	7	PLAINSBORO TWP	402050	0743608	100.00	449		402050074360801	231BRCK				W				230525
230526	DOW JONES CO	DOW JONES 1-FIRE	SOUTH BRUNSWICK TWP	402218	0743512	80.00	305	14	402207074351301	231LCKG	37	305	U	W	19620424	28-04393	305	230526
230526		DOW JONES 1-FIRE	SOUTH BRUNSWICK TWP	402218	0743512	80.00	305	10	402207074351301	231LCKG			U	W			305	230526
230527	COLUMBIAN CARBN	10-1962	SOUTH BRUNSWICK TWP	402302	0743342	80.00	705	10.00	402302074334201	231BRCK	23.00	702.00	N	W	19510210	28-00222	705	230527
230528	GULF OIL CO	ABAN	SOUTH BRUNSWICK TWP	402447	0743020	95.00	220		402447074302001	211MRPA			U	U				230528
230529	ROMATOWSKI, C	GAS LITE RES	EAST BRUNSWICK TWP	402448	0742730	90.00			402451074272801	211FRNG			U	W			274	230529
230529	KOBE JAPANESE REST	GAS LITE RES	EAST BRUNSWICK TWP	402448	0742730	90.00			402451074272801	211FRNG			U	W			274	230529
230530	BRUNSWICKTWN WC	BWC 8	SOUTH BRUNSWICK TWP	402518	0743309	180.00	805	12.00	402518074330901	231BRCK	32.00	805.00	P	W	19591202		805	230530
230531	BRUNSWK RUBBER	2-1961	SOUTH BRUNSWICK TWP	402526	0743129	125.00	257	8	402522074313001	231BRCK	42	257	N	W	19610621		257	230531
230532	BRUNSWICKTWN WC	BWC 9	SOUTH BRUNSWICK TWP	402526	0743414	140.00	486	12.00	402526074341401	231BRCK	39.00	486.00	P	W	19600208		486	230532
230533	FLAGPOST INN	1	SOUTH BRUNSWICK TWP	402528	0743138	130.00	400		402528074313801	231BRCK			N	W				230533
230534	PERTH AMBOY WATER DEPARTM	OLD DEEP 8	OLD BRIDGE TWP	402536	0742018	10.00			402536074201802	211ODBG			P	W			96.0	230534
230535	BRUNSWICKTWN WC	BWC 7	SOUTH BRUNSWICK TWP	402547	0743305	170.00	703	12.00	402547074330501	231BRCK	34.00	703.00	P	W	19590820		703	230535
230536	JOHNSON & JOHNSON CO	WATER TANK	NORTH BRUNSWICK TWP	402620	0743015	100.00			402620074301501	231BRCK			N	W			296	230536
230537	BARATTA BUILDER	HOUSE WELL	MILLTOWN BORO	402645	0742620	65.00	300		402645074262001	231BRCK			M	W				230537
230538	E I DUPONT	2-OBS	SAYREVILLE BORO	402734	0741925	130.00	146		402734074192301	211ODBG			U	D				230538
230539	RODIE RUBBER CO	1	NEW BRUNSWICK CITY	402820	0742647	120.00	225		402820074264701	211MRPA			N	W				230539
230540	JOHNSON & JOHNSON CO	1	NORTH BRUNSWICK TWP	403000	0742644	40.00	401		403000074264401	231BRCK			N	W				230540
230541	SHELL OIL CO	44	WOODBRIDGE TWP	403231	0741518	17.00	36.0		403231074151801	211FRNG			N	W				230541
230542	SHELL OIL CO	2(28)	WOODBRIDGE TWP	403232	0741522	5.00	22.0		403232074152201	211FRNG			N	W				230542
230543	SHELL OIL CO	3(S2)	WOODBRIDGE TWP	403242	0741526	24.76	42.0		403242074152301	211FRNG			U	O				230543
230544	SHELL OIL CO	4(B1)	WOODBRIDGE TWP	403242	0741531	20.00	28.5		403243074152801	211FRNG			U	Z				230544
230545	SHELL OIL CO	5	WOODBRIDGE TWP	403243	0741533	20.00	44.5		403243074153301	211FRNG			N	W				230545
230546	SHELL OIL CO	6	WOODBRIDGE TWP	403249	0741538	22.00	45.0		403249074153801	211FRNG			N	W				230546
230547	SHELL OIL CO	3	WOODBRIDGE TWP	403250	0741534	26.00	43.0		403250074153401	211FRNG			U	O				230547
230548	SHELL OIL CO	8(B7)	WOODBRIDGE TWP	403257	0741539	16.92	34.0		403257074153901	211FRNG			U	O				230548
230549	SAYREVILLE W D	SWD R	SAYREVILLE BORO	402745	0741645	23.00	111	0.00	402746074314503	211ODBG	70.00	111.00	P	W	19800301	29-10500	137	230549
230550	A C PRINTING CO	3	DUNELLEN BORO	403537	0742720	60.00	325	12.00	403537074272001	231BRCK			C	W	19500831		326	230550
230551	SOUTH RIVER W D	BRWD 6	SOUTH RIVER BORO	402548	0742155	47.00	213	20.00	402557074212501	211FRNG	155.00	208.00	P	W	198003	28-11524	217	230551
230552	SOUTH BRUNSWICK MUA	13	SOUTH BRUNSWICK TWP	402018	0743021	105.00	166	32.00	402018074302102	211FRNG	116.00	126.00	P	W	19790501		184	230552
230552		13	SOUTH BRUNSWICK TWP	402018	0743021	105.00	166		402018074302102	211FRNG	146.00	166.00	P	W			184	230552
230553	MONROE TWP MUA	TEST 16	MONROE TWP	401950	0742750	125.00		9.00	401950074275001	211FRNG			U	Z	19800717		469	230553
230554	SAYREVILLE W D	SWD S	SAYREVILLE BORO	402745	0741645	100.00	286	20.00	402738074163901	211FRNG	213.00	286.00	P	W	19800421		309	230554
230555	MONROE TWP MUA	TEST 17	MONROE TWP	402010	0742811	135.00	205	20.00	401958074281901	211ODBG	168.00	200.00	P	W	19800725	28-11720	385	230555
230556	MONROE TWP MUA	TW-16A	MONROE TWP	401950	0742721	137.00	215	9.00	401950074272101	211ODBG	160.00	178.00	U	Z	19801009	28-11719	444	230556
230556		TW-16A	MONROE TWP	401950	0742721	137.00	215		401950074272101	211ODBG	188.00	215.00	U	Z			444	230556
230557	SOUTH AMBOY W D	SAWD 9A	SAYREVILLE BORO	402820	0741629	20.00	58.0	20.00	392833074163701	211ODBG	48.00	58.00	P	W	19770921	26-04812	58.0	230557
230558	FUTZ, STEPHEN	1	WOODBRIDGE TWP	403220	0741820		102		403220074182001	231BRCK			I	W	19541127			230558
230559	SECURITY STEEL	1	WOODBRIDGE TWP	403420	0741631		614		403420074163101	231BRCK			M	W				230559
230560	NATIONAL VARNISH	1	WOODBRIDGE TWP	403551	0741527		405		403553074152701	231BRCK			M	W				230560
230561	HOME FOR DIAB VETS	1	EDISON TWP	403313	0741807		614		403313074180701	231BRCK								230561
230562	NEW DOVER CHURCH	1	EDISON TWP	403500	0742033		111		403500074203301	231BRCK								230562
230563	PERTH AMBOY WATER DEPARTM	1	OLD BRIDGE TWP	402527	0742007		240		402527074200701	211FRNG			U	W				230563
230564	SOUTH BRUNSWICK TOWNSHIP	15B-1	SOUTH BRUNSWICK TWP	402015	0743018	100.00	164	12.00	402015074301801	211FRNG	134.00	164.00	U	T	19780627	28-10532	196	230564
230565	MONROE TWP MUA	ROSSMORE GC 17	MONROE TWP	401958	0742819	130.00	197	0.00	401958074281902	211ODBG	165.00	197.00	P	W	19800814		383	230565
230566	STAUFFER CHEM	D-2	SOUTH BRUNSWICK TWP	402129	0742901	124.10	225	0.00	402129074290102	211FRNG	122.00	225.00	U	O	19820302	28-12836	239	230566
230567	MONROE TWP MUA	MTMUA 16A	MONROE TWP	401950	0742750	137.00	244	0.00	401950074275002	211ODBG	163.00	171.00	P	W	19830707	28-13397	230	230567
230567		MTMUA 16A	MONROE TWP	401950	0742750	137.00	244		401950074275002	211ODBG	181.00	187.00	P	W			230	230567
230567		MTMUA 16A	MONROE TWP	401950	0742750	137.00	244		401950074275002	211ODBG	193.00	213.00	P	W			230	230567
230567		MTMUA 16A	MONROE TWP	401950	0742750	137.00	244		401950074275002	211ODBG	234.00	244.00	P	W			230	230567
230568	SCHWEITZER, P J	12	SPOTSWOOD BORO	402410	0742231	25.00	280	0.00	402410074223101	211FRNG	210.00	280.00	N	W	19830217	28-12880	289	230568
230569	SAYREVILLE W D	SWD T	SAYREVILLE BORO	402738	0741700	90.00	137	0.00	402738074170001	211ODBG	102.00	132.00	P	W	19820325	29-11861	163	230569
230570	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 6	OLD BRIDGE TWP	402518	0741950	15.00	80.0	0.00	402518074195001	211ODBG	60.00	80.00	P	W	19821108	29-12351	86.0	230570
230571	PERTH AMBOY WATER DEPARTM	PERTH AMBOY 7	OLD BRIDGE TWP	402531	0741932	15.00	82.0	0.00	402524074193601	211ODBG	67.00	82.00	P	W	19830128	29-12352	90.0	230571
230572	CIRAKY, NICHOLAS	CIRAKY 1	WOODBRIDGE TWP	403207	0741817	130.00	123	0.00	403207074181701	211FRNG			N	W	[illegible]	[illegible]	123	230572
230574	POWESKA, FRANK	POWESKA 1	SAYREVILLE BORO	402737	0741736	100.00	135	0.00	402737074173601	211FRNG	125.00	135.00	I	W	19710602	26-04398	140	230574
230575	MCKEON, JOHN	MCKEON 1	SOUTH AMBOY CITY	402925	0741704	15.00	133	0.00	402925074170401	211FRNG	127.00	133.00	M	W	19731015	26-04635	138	230575
230576	SPINELLO CONST CO	SPINELLO 1	SOUTH AMBOY CITY	402933	0741718	30.00	165	0.00	402933074171801	211ODBG			U	Z		26-04710	165	230576
230577	CHEVRON OIL CO	SB-11A	PERTH AMBOY CITY	403210	0741520	6.00	57.0	7.88	403210074152001	211FRNG	37.00	57.00	U	O	19811105	26-05321	61.0	230577
230578	CHEVRON OIL CO	E13A	WOODBRIDGE TWP	403234	0741533	5.00	46.2	7.88	403234074153102	211FRNG	36.20	46.20	U	O	19811113	26-05324	54.5	230578
230580	PERTH AMBOY WATER DEPARTM	OBS 1	OLD BRIDGE TWP	402517	0742050	20.00	62.0	0.00	402517074205001	211ODBG	57.00	62.00	U	Z	19541220	28-01524	85.0	230580
230581	PARLIN SUPPLY CO	1	SAYREVILLE BORO	402734	0742037	80.00	44.0	0.00	402734074203701	211ODBG	24.00	44.00	I	W	19740601	28-08423	70.0	230581
230582	MIDD CO UTIL AUTH	MADISON CONNET	OLD BRIDGE TWP	402505	0742129	15.00	61.0	6.00	402305074212901	211ODBG	56.00	61.00	I	W	19780901	28-10493	85.0	230582
230583	AIR PRODUCTS	AIR PRODUCTS 1	SOUTH BRUNSWICK TWP	402154	0742931	105.00	172	0.00	402154074293101	211FRNG	152.00	172.00	N	W	19780824	28-10515	175	230583
230584	TOWN & COUNTRY METAL	GAM CHOY 1	MONROE TWP	401610	0742624	125.00	240	0.00	401610074262401	211ODBG	230.00	240.00	F	W	19780904	28-10626	240	230584
230585	CHIRLIAN, PAUL	DEEPWELL	EAST BRUNSWICK TWP	402430	0742330	120.00	248	0.00	402430074233001	211FRNG	238.00	248.00	I	W	19801111	28-11899	248	230585
230586	PROTINICK, MICHAEL	2	CRANBURY TWP	401943	0742926	110.00	170	0.00	401943074292601	211ODBG	80.00	170.00	I	W	19810620	28-12332	177	230586
230587	KOSMO, JOSEPH	KOSMO 1	OLD BRIDGE TWP	402205	0742123	90.00	166	0.00	402205074212301	211ODBG	160.00	166.00	N	W	19811119	28-12334	185	230587
230588	STAUFFER CHEM	D-1	SOUTH BRUNSWICK TWP	402120	0742859	127.00	238	0.00	402120074285901	211FRNG	198.00	238.00	U	O	19820323	28-12835	239	230588
230589	STAUFFER CHEM	D-3	SOUTH BRUNSWICK TWP	402129	0742854	124.30	229	0.00	402129074285401	211FRNG	129.00	229.00	U	O	19820315	28-12837	229	230589
230590	E I DUPONT	LAYNE 57 OBS	SAYREVILLE BORO	402721	0741937	90.00	79.0	0.00	402721074193701	211ODBG	74.00	79.00	U	O	19550505	29-01391	126	230590
230591	E I DUPONT	LAYNE 58 OBS	SAYREVILLE BORO	402655	0741916	85.00	92.7	0.00	402655074191601	211ODBG	88.70	92.70	U	O	19550513	29-01390	126	230591
230592	E I DUPONT	LAYNE 59 3 OBS	SAYREVILLE BORO	402659	0741910	80.00	98.0	0.00	402659074191001	211ODBG	94.00	98.00	U	O	19550804	29-01393	113	230592
230593	OLD BRIDGE DEV CORP	SB2	OLD BRIDGE TWP	402158	0741910	95.00	307	0.00	402158074191001	211ODBG	273.00	278.00	U	O	19810518	29-11116	355	230593
230593		SB2	OLD BRIDGE TWP	402158	0741910	95.00	307		402158074191001	211ODBG	302.00	307.00	U	O			355	230593
230594	OLD BRIDGE DEV CORP	PW-81 TW1	OLD BRIDGE TWP	402157	0741911	95.00	315	0.00	402157074191101	211ODBG	275.00	315.00	U	O	19810701	29-11122	355	230594
230595	OLD BRIDGE DEV CORP	SB4	OLD BRIDGE TWP	402153	0741915	105.00	290	0.00	402153074191501	211ODBG	285.00	290.00	U	O	19810701	29-11118	298	230595

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230596	OLD BRIDGE DEV CORP	BB3	OLD BRIDGE TWP	402134	0741922	110.00	294	0.00	402134074192201	211ODBG	289.00	294.00	U	O	19810630	29-11117	300	230596
230597	OLD BRIDGE DEV CORP	4	OLD BRIDGE TWP	402148	0741830	75.00	260	0.00	402148074183001	211ODBG	240.00	245.00	U	O	19810319	29-11107	260	230597
230598	E BRUNSWICK TWD	TW 2-75	EAST BRUNSWICK TWP	402400	0742548	132.00	262	8.00	402400074254801	211FRNG			U	Z	19750708	28-08814	262	230598
230599	E BRUNSWICK TWD	TW 1-75	EAST BRUNSWICK TWP	402406	0742542	140.00	292	8.75	402406074254201	211FRNG			U	Z	19750703	28-08813	292	230599
230600	PERTH AMBOY WATER DEPARTM	GEONICS TW 3	OLD BRIDGE TWP	402538	0741948	15.00	79.0	0.00	402538074194801	211ODBG			U	Z	19730201	49-00027	79.0	230600
230601	PERTH AMBOY WATER DEPARTM	GEONICS TW 2	OLD BRIDGE TWP	402537	0741946	15.00	31.0	0.00	402537074194601	211ODBG			U	Z	19730124	49-00026	31.0	230601
230602	PERTH AMBOY WATER DEPARTM	GEONICS TW 4	OLD BRIDGE TWP	402536	0741949	15.00		0.00	402536074194901	211ODBG			U	Z	19730124	49-00028		230602
230603	PERTH AMBOY WATER DEPARTM	GEONICS TW 1	OLD BRIDGE TWP	402543	0741951	15.00	96.0	0.00	402543074195101	211ODBG			U	Z	19730119	49-00025	96.0	230603
230604	OLD BRIDGE DEV CORP	OBY CC1	OLD BRIDGE TWP	402138	0741909	100.00	213	0.00	40.203074191301	211ODBG	170.00	210.00	U	O	19810115	29-10982	335	230604
230605	OLD BRIDGE DEV CORP	OBY CC2	OLD BRIDGE TWP	402159	0741908	120.00	47.0	0.00	402205074191101	211EGLS	37.00	47.00	U	O	19810114	29-10983	105	230605
230606	OLD BRIDGE DEV CORP	OBY CC3	OLD BRIDGE TWP	402155	0741908	130.00	53.0	0.00	402159074191201	211WBMV	43.00	53.00	U	O	19810115	29-10984	80.0	230606
230607	OLD BRIDGE DEV CORP	OBY 2	OLD BRIDGE TWP	402154	0741924	102.00	177	0.00	402154074192401	211ODBG	172.00	177.00	U	O	19810000	29-11106	212	230607
230608	E BRUNSWICK TWD	P-C (3)	EAST BRUNSWICK TWP	402535	0742140	30.50	35.0	2.50	402535074214001	211ODBG	30.00	35.00	U	O	19780707	48-00077	50.0	230608
230609	E BRUNSWICK TWD	B-1	EAST BRUNSWICK TWP	402500	0742451	104.00	32.0	2.50	402500074245101	211ODBG	27.00	32.00	U	Z	19780927	48-00078	45.0	230609
230610	E BRUNSWICK TWD	B-2	EAST BRUNSWICK TWP	402429	0742421	86.00	42.0	2.50	402429074242101	211ODBG	37.00	42.00	U	Z	19780928	48-00079	85.0	230610
230611	E BRUNSWICK TWD	TPW B4	EAST BRUNSWICK TWP	402358	0742555	125.00	110	0.00	402358074255501	211ODBG			U	Z	19780906	48-00080	110	230611
230612	E BRUNSWICK TWD	B-5	EAST BRUNSWICK TWP	402324	0742601	114.00	100	0.00	402324074260101	211ODBG	95.00	100.00	U	Z	19781002	48-00081	115	230612
230613	E BRUNSWICK TWD	B-7	EAST BRUNSWICK TWP	402326	0742414	33.00	75.0	0.00	402326074241401	211ODBG	70.00	75.00	U	Z	19780000	48-00082	105	230613
230614	E BRUNSWICK TWD	TPW-D	EAST BRUNSWICK TWP	402537	0742141	29.50	38.0	0.00	402537074214101	211ODBG	28.00	38.00	U	Z	19780810	48-00083	45.0	230614
230615	E BRUNSWICK TWD	P-8	EAST BRUNSWICK TWP	402536	0742139	29.50	35.0	0.00	402536074213901	211ODBG	30.00	35.00	U	Z	19780717	48-00084	40.0	230615
230616	E BRUNSWICK TWD	P-7	EAST BRUNSWICK TWP	402536	0742139	34.00	35.0	0.00	402536074213902	211ODBG	30.00	35.00	U	Z	19780717	48-00085	43.0	230616
230617	E BRUNSWICK TWD	P-6	EAST BRUNSWICK TWP	402536	0742142	32.50	35.0	0.00	402536074214201	211ODBG	30.00	35.00	U	Z	19780714	48-00086	40.0	230617
230618	E BRUNSWICK TWD	P-5	EAST BRUNSWICK TWP	402535	0742142	34.50	35.0	2.50	402535074214201	211ODBG	30.00	35.00	U	Z	19780713	48-00087	40.0	230618
230619	E BRUNSWICK TWD	B-6-2	EAST BRUNSWICK TWP	402249	0742613	112.00	117	0.00	402249074261301	211ODBG	112.00	117.00	U	Z	19781005	48-00088	130	230619
230620	E BRUNSWICK TWD	B-6-1	EAST BRUNSWICK TWP	402246	0742615	110.50	119	2.50	402246074261501	211ODBG	114.00	119.00	U	Z	19781004	48-00089	130	230620
230621	E BRUNSWICK TWD	TPW-B-6	EAST BRUNSWICK TWP	402244	0742618	107.00	118	0.00	402244074261801	211ODBG	88.00	118.00	U	Z	19781009	48-00094	125	230621
230622	E BRUNSWICK TWD	B-8	EAST BRUNSWICK TWP	402331	0742438	41.00	55.0	0.00	402331074243801	211ODBG	50.00	55.00	U	Z	19781010	48-00083	72.0	230622
230623	E BRUNSWICK TWD	B-6	EAST BRUNSWICK TWP	402242	0742620	105.00	115	2.50	402242074262001	211ODBG	110.00	115.00	U	Z	19781004	48-00090	149	230623
230624	E BRUNSWICK TWD	B-8-1	EAST BRUNSWICK TWP	402331	0742435	44.00	55.0	0.00	402331074243501	211ODBG	50.00	55.00	U	Z	19790110	48-00091	85.0	230624
230625	E BRUNSWICK TWD	B-8-2	EAST BRUNSWICK TWP	402332	0742434	40.00	52.0	0.00	402332074243401	211ODBG	47.00	52.00	U	Z	19790112	48-00092	60.0	230625
230626	E BRUNSWICK TWD	TPW B-8	EAST BRUNSWICK TWP	402330	0742436	41.00	55.0	2.50	402330074243601	211ODBG	35.00	55.00	U	Z	19781215	48-00095	57.0	230626
230627	BASF-WYANDOTTE	BASF 6D	SOUTH BRUNSWICK TWP	402140	0742819	131.67	86.5	0.00	402140074281901	211ODBG	76.50	86.50	U	O	19791009		86.5	230627
230628	BASF-WYANDOTTE	BASF 6M	SOUTH BRUNSWICK TWP	402140	0742819	131.74	76.0	0.00	402140074281902	211ODBG	66.00	76.00	U	O	19791010		76.0	230628
230629	BASF-WYANDOTTE	BASF 6S	SOUTH BRUNSWICK TWP	402140	0742819	131.68	66.0	0.00	402140074281903	211ODBG	46.00	66.00	U	O	19791010		66.0	230629
230630	BASF-WYANDOTTE	BASF 5D	SOUTH BRUNSWICK TWP	402137	0742816	129.66	75.0	0.00	402137074281601	211ODBG	65.00	75.00	U	O	19791002		75.0	230630
230631	BASF-WYANDOTTE	BASF 5S	SOUTH BRUNSWICK TWP	402137	0742816	130.00	65.0	0.00	402137074281602	211ODBG	45.00	65.00	U	O	19791002		65.0	230631
230632	BASF-WYANDOTTE	BASF 8M	SOUTH BRUNSWICK TWP	402143	0742813	131.32	71.0	0.00	402143074281301	211ODBG	61.00	71.00	U	O	19791004		71.0	230632
230633	BASF-WYANDOTTE	BASF 8S	SOUTH BRUNSWICK TWP	402143	0742813	131.38	60.0	0.00	402143074281302	211ODBG	50.00	60.00	U	O	19791003		60.0	230633
230634	BASF-WYANDOTTE	BASF 1D	SOUTH BRUNSWICK TWP	402137	0742813	135.38	85.0	0.00	402137074281301	211ODBG	70.00	85.00	U	O	19790823		85.0	230634
230635	BASF-WYANDOTTE	BASF 1S	SOUTH BRUNSWICK TWP	402137	0742813	135.35	70.0	0.00	402137074281302	211ODBG	50.00	70.00	U	O	19790823		70.0	230635
230636	BASF-WYANDOTTE	BASF 4D	SOUTH BRUNSWICK TWP	402138	0742822	128.96	65.0	0.00	402138074282201	211ODBG	55.00	65.00	U	O	19791022		65.0	230636
230637	BASF-WYANDOTTE	BASF 4S	SOUTH BRUNSWICK TWP	402138	0742822	128.94	55.0	0.00	402138074282202	211ODBG	40.00	55.00	U	O	19791022		55.0	230637
230638	BASF-WYANDOTTE	BASF 3S	SOUTH BRUNSWICK TWP	402143	0742826	123.18	60.0	0.00	402143074282601	211ODBG	40.00	60.00	U	O	19791023		60.0	230638
230639	BASF-WYANDOTTE	BASF 3D	SOUTH BRUNSWICK TWP	402143	0742826	123.07	70.0	0.00	402143074282602	211ODBG	60.00	70.00	U	O	19791023		70.0	230639
230640	BASF-WYANDOTTE	BASF 8D	SOUTH BRUNSWICK TWP	402143	0742813	131.34	78.0	0.00	402143074281303	211ODBG	68.00	78.00	U	O	19771009		78.0	230640
230641	BASF-WYANDOTTE	BASF 7D	SOUTH BRUNSWICK TWP	402144	0742815	128.64	103	0.00	402144074281501	211ODBG	83.00	103.00	U	O	19771012		103	230641
230642	BASF-WYANDOTTE	BASF 7M	SOUTH BRUNSWICK TWP	402144	0742815	128.46	83.0	0.00	402144074281502	211ODBG	67.00	83.00	U	O	19771015		83.0	230642
230643	BASF-WYANDOTTE	BASF 7S	SOUTH BRUNSWICK TWP	402144	0742815	128.46	67.0	0.00	402144074281503	211ODBG	47.00	67.00	U	O	19771016		67.0	230643
230644	BASF-WYANDOTTE	BASF 2D	SOUTH BRUNSWICK TWP	402144	0742818	126.97	50.0	0.00	402144074281801	211ODBG	30.00	50.00	U	O	19771017		50.0	230644
230645	KIN-BUC	MW 1	EDISON TWP	402935	0742237	40.4	73		402935074223701	231BRCK	41	73	U	O	19741221		73	230645
230646	KIN-BUC	MW 2	EDISON TWP	402934	0742253	37.0	100		402934074225301	231BRCK	22	100	U	O	19741222		100	230646
230647	KIN-BUC	MW 3	EDISON TWP	402926	0742254	[illegible]	65		402926074225401	231BRCK	20	65	U	O	19741223		65	230647
230648	KIN-BUC	MW 4	EDISON TWP	402924	0742238	34.0	50		402924074223801	231BRCK	28	50	U	O	19741224		50	230648
230649	KIN-BUC	MW 5	EDISON TWP	402914	0742257	14.3			402914074225701	231BRCK			U	O				230649
230650	KIN-BUC	K-BII/1 NORTH	EDISON TWP	402922	0742240	48.86			402922074224001				U	O				230650
230651	KIN-BUC	K-BII/1-SOUTH	EDISON TWP	402921	0742240	48.01			402921074224001				U	O				230651
230652	KIN-BUC	KINMT-1	EDISON TWP	402911	0742234	12.67	39		402911074223401				U	O	19760622		39	230652
230653	KIN-BUC	KINMT-1A	EDISON TWP	402911	0742234	16.32			402911074223402				U	O				230653
230654	KIN-BUC	KINMT-2	EDISON TWP	402909	0742232	11.11			402909074223201				U	O			25	230654
230655	KIN-BUC	KINMT-3	EDISON TWP	402901	0742232	10			402901074223201				U	O			28	230655
230656	KIN-BUC	KINMT-4	EDISON TWP	402910	0742231	12.45			402910074223101				U	O	19760622		32	230656
230657	KIN-BUC	KINMT-5	EDISON TWP	402917	0742234	5			402917074223401				U	O	19760622		14	230657
230658	KIN-BUC	KINMT-6	EDISON TWP	402916	0742231	5			402916074223101				U	O	19760622		14.5	230658
230659	KIN-BUC	KINMT-7	EDISON TWP	402918	0742237	8			402918074223701				U	O	19760623		17.5	230659
230660	KIN-BUC	KINMT-8	EDISON TWP	402915	0742305	4			402915074230501				U	O	19760622		21	230660
230661	KIN-BUC	KINMT-9	EDISON TWP	402916	0742238	12.84	29.2		402916074223801		24.2	29.2	U	O	19790510		29.2	230661
230662	KIN-BUC	KINMT-10	EDISON TWP	402915	0742239	11.37	25		402915074223901		22	25	U	O	19790510		25	230662
230663	KIN-BUC	KINMT-11	EDISON TWP	402911	0742233	16.45			402911074223301		23.[illegible]	27.2	U	O	19790510		27.2	230663
230664	KIN-BUC	KINMT-12	EDISON TWP	402907	0742238	10.4	24.7		402907074223801		22.7	24.7	U	O	19790610		24.7	230664
230665	KIN-BUC	KINMT-12A	EDISON TWP	402907	0742238	12.64			402907074223802				U	O				230665
230666	KIN-BUC	KINMT-13	EDISON TWP	402903	0742237	9.53			402903074223701				U	O				230666
230667	KIN-BUC	KINMT-14	EDISON TWP	402904	0742252	13.03	21.25		402904074225201		18.25	21.25	U	O	19790310		21.25	230667
230668	KIN-BUC	KINMT-15	EDISON TWP	402913	0742233	13.38	27.25		402913074223301		24.25	27.25	U	O	19790310		27.25	230668
230669	KIN-BUC	KINMT-16	EDISON TWP	402915	0742237	19.34			402915074223701				U	O				230669
230670	KIN-BUC	MB-1	EDISON TWP	402938	0742243	47.7	30		402938074224101		13	25	U	O	19770512		30	230670
230670		[illegible]	EDISON TWP	402938	0742243	47.7	30		402938074224101		25	30	U	O			30	230670
230671	KIN-BUC	[illegible]	EDISON TWP	402938	0742243	46.0	24		402938074224102		12	22	U	O	19770607		24	230671
230671		[illegible]	EDISON TWP	402938	0742243	46.0	24		402938074224102		22	24	U	O			24	230671
230672	KIN-BUC	MB-6	EDISON TWP	402938	0742243	48.8	77.0		402938074224103	231BRCK	40	77	U	O	19770606		77.0	230672
230673	KIN-BUC	[illegible]	EDISON TWP	402930	0742235	36	17		402930074223501		5	10	U	O	19770513		17	230673
230673		[illegible]	EDISON TWP	402930	0742235	36	17		402930074223501		10	17	U	O			17	230673
230674	KIN-BUC	[illegible]	EDISON TWP	402930	0742235	33.[illegible]	11		402930074223502		5	10	U	O	19770513		11	230674
230674		MB-5	EDISON TWP	402930	0742235	33.4	11		402930074223502		10	11	U	O			11	230674
230675	KIN-BUC	MB-11	EDISON TWP	402930	0742235	34	16.5		402930074223503		5	10	U	O	19770607		16.5	230675
230675		MB-11	EDISON TWP	402930	0742235	34	16.5		402930074223503		10	16.5	U	O			16.5	230675
230676	KIN-BUC/NJ DEP	NJ DEP 6	EDISON TWP	402908	0742246	24.11	39		402908074224601		31.1	46.1	U	O	19790618		39	230676
230676		NJ DEP 6	EDISON TWP	402908	0742246	24.11	39		402908074224601		46.1	59	U	O			39	230676
230677	ALLIED CHEMICAL CO	OBB 1	METUCHEN BORO	403128	0742152	112.65	33.3		403128074215201	211FRNG	29.3	33.3	U	O	19790621		33.3	230677
230678	ALLIED CHEMICAL CO	OBB 2	METUCHEN BORO	403126	0742150	104.9			403126074215001	211FRNG	16.65	20.15	U	O	19790622		20.15	230678
230679	ALLIED CHEMICAL CO	OBB 3	METUCHEN BORO	403128	0742150	107.7	20		403128074215001	211FRNG	16	20	U	O	19790622		20	230679

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		N	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230680	ALLIED CHEMICAL CO	DBS 4	METUCHEN BORO	403129	0742152	111.3	24		403129074215201	211FRNG	20.5	24	U	D	19790622		25	230680
230681	ALLIED CHEMICAL CO	DBS 5	METUCHEN BORO	403127	0742157	119.7	29.1		403127074215701	211FRNG	23.6	29.1	U	D	19790623		29.1	230681
230682	ALLIED CHEMICAL CO	DBS 6	METUCHEN BORO	403128	0742139	120.4	28.9		403128074213901	211FRNG	23.9	28.9	U	D	19790623		28.9	230682
230683	ALLIED CHEMICAL CO	DBS 7	METUCHEN BORO	403130	0742158	112.1	25.2		403130074215801	211FRNG	22.2	25.2	U	D	19790623		25.2	230683
230685	MADISON IND	MADISON 2	OLD BRIDGE TWP	402559	0741945	20	37		402559074194501	211DDBG	17	37	U	D	19750727	29-8002	42	230685
230687	MADISON IND	MADISON 4	OLD BRIDGE TWP	402601	0741938	22	37		402601074193801	211DDBG	17	37	U	D	19750728	29-7999	42	230687
230688	MADISON IND	MADISON 5	OLD BRIDGE TWP	402603	0741938	25			402603074193801	211DDBG	17	37	U	D	19750729	29-7998	42	230688
230689	MADISON IND	MADISON 6	OLD BRIDGE TWP	402600	0741930	25	49		402600074193001	211DDBG	44	49	U	D	19811209	28-12672	62	230689
230690	MADISON INDUSTRIES	P-1-T-1	OLD BRIDGE TWP	402606	0741936	25	39	14	402606074193601	211DDBG	29	39	U	D	19820128	28-12712	44	230690
230691	IBM CORP	BLDG 12-1	SOUTH BRUNSWICK TWP	402155	0742959	105	215		402155074295901	211FRNG	122	130	U	D	19830803		215	230691
230691		BLDG 12-1	SOUTH BRUNSWICK TWP	402155	0742959	105	215		402155074295901	211FRNG	158	165	U	D			215	230691
230691		BLDG 12-1	SOUTH BRUNSWICK TWP	402155	0742959	105	215		402155074295901	211FRNG	210	215	U	D			215	230691
230692	IBM CORP	BLDG 12-2	SOUTH BRUNSWICK TWP	402154	0742959	105	58		402154074295901	211FRNG	48	58	U	D	19830804		58	230692
230693	IBM CORP	BLDG 12-3	SOUTH BRUNSWICK TWP	402152	0743000	105	55		402152074300001	211FRNG	45	55	U	D	19830805		55	230693
230694	IBM CORP	BLDG 12-4	SOUTH BRUNSWICK TWP	402149	0742954	105	61		402149074295401	211FRNG	51	61	U	D	19830809		63.5	230694
230695	IBM CORP	BLDG 12-5	SOUTH BRUNSWICK TWP	402144	0742955	105	65		402144074295501	211FRNG	55	65	U	D	19830808		90	230695
230696	IBM CORP	BLDG 12-6	SOUTH BRUNSWICK TWP	402149	0743000	105	54		402149074300001	211FRNG	44	54	U	D	19830808		56	230696
230697	IBM CORP	GW 1	SOUTH BRUNSWICK TWP	402228	0743115	110	106		402228074311501	211FRNG	66	106	U	D	19780209	28-10146	112.5	230697
230698	IBM CORP	GW 2	SOUTH BRUNSWICK TWP	402225	0743108	105			402225074310801	211FRNG			U	I	19780130		23	230698
230699	IBM CORP	GW 3	SOUTH BRUNSWICK TWP	402228	0743116	111.0	57		402228074311601	211FRNG	17	57	U	D	19780210	28-10181	61.5	230699
230700	IBM CORP	GW 4	SOUTH BRUNSWICK TWP	402226	0743109	116.0	55		402226074310901	211FRNG	15	55	U	D	19780217	28-10182	61.5	230700
230701	IBM CORP	GW 5	SOUTH BRUNSWICK TWP	402235	0743115	119.0	97		402235074311501	211FRNG	72	97	U	D	19780303	28-10241	109	230701
230702	IBM CORP	GW 6	SOUTH BRUNSWICK TWP	402226	0743109	109.5	58		402226074310902	211FRNG	18	58	U	D	19780222	28-10242	60	230702
230703	IBM CORP	GW 7	SOUTH BRUNSWICK TWP	402225	0743124	102.1	90		402225074312401	211FRNG	50	90	U	D	19780314	28-10260	95	230703
230704	IBM CORP	IBM GW 8	SOUTH BRUNSWICK TWP	402235	0743119	119.4	67	8	402234074311601	211FRNG	32	67	U	D	19780221	28-10185	78.5	230704
230704		IBM GW 8	SOUTH BRUNSWICK TWP	402235	0743119	119.4	67	6	402234074311601	211FRNG			U	D			78.5	230704
230705	IBM CORP	GW 9	SOUTH BRUNSWICK TWP	402225	0743124	102.1	45		402225074312402	211FRNG	10	45	U	D	19780316	28-10259	64.5	230705
230706	IBM CORP	GW 10	SOUTH BRUNSWICK TWP	402225	0743058	110.7	60.0		402225074305801	211FRNG	20	60	U	D	19780221	28-10183	61.5	230706
230707	IBM CORP	GW 11	SOUTH BRUNSWICK TWP	402225	0743059	110.0	48		402225074305901	211FRNG	13	48	U	D	19780301	28-10263	32	230707
230708	IBM CORP	GW 12	SOUTH BRUNSWICK TWP	402233	0743111	114.9	62		402233074311101	211FRNG	22	62	U	D	19780317	28-10258	64	230708
230709	IBM CORP	GW 13	SOUTH BRUNSWICK TWP	402227	0743058	110.0	110		402227074305801	211FRNG	53	110	U	D	19780309	28-10264	115	230709
230710	IBM CORP	GW 14	SOUTH BRUNSWICK TWP	402224	0743100	108.0	30.0		402224074310001	211FRNG	15	30	U	D	19780301	28-10265	31.5	230710
230711	IBM CORP	GW 15	SOUTH BRUNSWICK TWP	402227	0743058	110.2	49		402227074305802	211FRNG	20.5	49	U	D	19780307	28-10266	31.5	230711
230712	IBM CORP	GW 16	SOUTH BRUNSWICK TWP	402228	0743104	115			402228074310401	211FRNG	20		U	I	19780202	28-10189	31.5	230712
230713	IBM CORP	GW 16-A	SOUTH BRUNSWICK TWP	402228	0743104	115			402228074310402	211FRNG	20		U	I	19780202		30	230713
230714	IBM CORP	GW 16-B	SOUTH BRUNSWICK TWP	402229	0743104	114.6	60		402229074310401	211FRNG	24	60	U	D	19780203		64.5	230714
230715		IBM GW 17		402228	0743109	115.0			402228074310501	211FRNG								230715
230716	IBM CORP	GW 18	SOUTH BRUNSWICK TWP	402233	0743101	118.7	96		402233074310101	211FRNG	66	96	U	D	19780228	28-10268	115	230716
230717	IBM CORP	GW 19	SOUTH BRUNSWICK TWP	402228	0743105	113.0	50.0		402228074310502	211FRNG	15	50	U	D	19780215	28-10186	55.5	230717
230718	IBM CORP	GW 21	SOUTH BRUNSWICK TWP	402221	0743101	106.2	108		402221074310101	211FRNG	50	108	U	D	19780217	28-10187	109	230718
230719	IBM CORP	GW 22	SOUTH BRUNSWICK TWP	402221	0743101	106.1	47		402221074310102	211FRNG	12	47	U	D	19780213	28-10188	47.5	230719
230720	IBM CORP	GW 23	SOUTH BRUNSWICK TWP	402223	0743053	110.1	55.0		402223074305301	211FRNG	20	55	U	D	19780307	28-10270	56.5	230720
230721	IBM CORP	GW 24	SOUTH BRUNSWICK TWP	402228	0743104	113.0	60		402228074310403	211FRNG	20	60	U	D	19780203		62	230721
230722	IBM CORP	GW 25	SOUTH BRUNSWICK TWP	402230	0743058	113.1	58.0		402230074305801	211FRNG	13	58	U	D	19780208	28-10190	61.5	230722
230723	IBM CORP	GW 26	SOUTH BRUNSWICK TWP	402229	0743058	111.6	59		402229074305801	211FRNG	19	59	U	D	19780211	28-10191	60	230723
230724	IBM CORP	GW 27	SOUTH BRUNSWICK TWP	402233	0743113	116.3	64		402233074311301	211FRNG	24	64	U	D	19780227	28-10271	81	230724
230725	IBM CORP	GW 28	SOUTH BRUNSWICK TWP	402233	0743108	116.9	65		402233074310801	211FRNG	20	65	U	D	19780224	28-10272	73	230725
230726	IBM CORP	GW 29	SOUTH BRUNSWICK TWP	402225	0743112	104.8	40		402225074311202	211FRNG	15	40	U	D	19780302	28-10273	42	230726
230727	ANHEUSER BUSCH	BUSCH 8	EAST BRUNSWICK TWP	402437	0742217	30.00	60.0	0.00	402437074221701	211DDBG	50.00	60.00	N	N	19810821	28-12014	66.0	230727
230728	ANHEUSER BUSCH	BUSCH 9	EAST BRUNSWICK TWP	402437	0742217	30.00	70.0	0.00	402437074221702	211DDBG	60.00	70.00	N	N	19810401	28-12153	70.0	230728
230729	ANHEUSER BUSCH	BUSCH 10	EAST BRUNSWICK TWP	402442	0742208	25.0	60.0	0.00	402444074225701	211DDBG	50.00	60.00	N	N	19830817	28-13449	72.0	230729
230730	DUNERNAL W CO	DUNERNAL 26	OLD BRIDGE TWP	402428	0742205	80.00	116	0.00	402428074220501	211DDBG	101.00	116.00	N	N	19820430	28-12769	117	230730
230731	DUNERNAL W CO	DUNERNAL 27	OLD BRIDGE TWP	402428	0742205	80.00	102	0.00	402428074220502	211DDBG	81.30	102.00	N	N	19820402	28-12770	112	230731
230732		KULESA DOMESTIC	SOUTH BRUNSWICK TWP	402248	0743004	110.	40		402248074295501	211FRNG			N	N				230732
230733	EDGEBORO DISPOSAL	EDGEBORO DSP LND	SOUTH RIVER BORO	402741	0742324	20.0		287.625	402738074232701	211FRNG	18.	28.	U	D	19761208		32.	230733
230734	MIRANDL CHEMICAL	MIRANDL CHEMICAL	SOUTH BRUNSWICK TWP	402225	0743112	100.00	120	6.	402225074311201	211DDBG	96.	120.	N	N	19810214	28-12023	121.	230734
230735	PERTH AMBOY WATER DEPARTM	RUNYON 8R	OLD BRIDGE TWP	402524	0741940	10.0	85	30	402528074195802	211DDBG	70	85	P	N	19821123	29-12353	90	230735
230736	SIMONSON BROS	SIMONSON BROS DO	PLAINSBORO TWP	402009	0743320	85.	78	6.	402006074331902	211FRNG	71.	78.	N	N	19650800	28-05551	78.	230736
230738	ROSENSTOCK, WALTER	ROSENSTOCK DOMES	SOUTH BRUNSWICK TWP	402310	0743123	90	39.	6.	402310074312301	211FRNG	35.	39.	N	N	19560126	28-01882	40.	230738
230739	ZIYRANSKI, MICHAEL	ZIYRANSKI DOMEST	SOUTH BRUNSWICK TWP	402136	0743126	105	110	4.	402136074312601	211DDBG	100.	110.	N	N	19830118	28-13267	110.	230739
230740	DALLENBACH GRAVEL	DALLENBACH TRAIL	SOUTH BRUNSWICK TWP	402238	0742747	90.	55	4.	402238074274701	211DDBG	47.	55.	N	N	19811025	28-12522	61.	230740
230741	SPERLING, ROYAL F	SPERLING ROYAL 1	EAST BRUNSWICK TWP	402242	0742359	35.	44	4.	402250074261301	211DDBG	41.	44.	N	N	19760300	28-06296	45.	230741
230742	APPLEGATE, JAMES	APPLEGATE SIMONS	CRANBURY TWP	401957	0743203	85.0	60	4.	401957074320301	211DDBG	30.	60.	N	N	19710902		60.	230742
230743	PERTH AMBOY WATER DEPARTM	RUNYON TW-PW1	OLD BRIDGE TWP	402507	0742036	13.50	63.0	0.00	402507074203601	211DDBG	30.00	63.00	P	N	19840615		69.0	230743
230744	PERTH AMBOY WATER DEPARTM	RUNYON TW-B1	OLD BRIDGE TWP	402508	0742038	13.50	73.0	0.00	402508074203801	211DDBG	60.00	73.00	U	D	19840601		73.0	230744
230745	PERTH AMBOY WATER DEPARTM	RUNYON TW-B2	OLD BRIDGE TWP	402507	0742036	13.50	68.5	0.00	402507074203602	211DDBG	38.50	68.50	U	D	19840605		69.0	230745
230746	PERTH AMBOY WATER DEPARTM	RUNYON TW-B3	OLD BRIDGE TWP	402506	0742035	13.50	68.0	0.00	402506074203501	211DDBG	38.00	68.00	U	D	19840607		68.0	230746
230747	PERTH AMBOY WATER DEPARTM	RUNYON TW-PW2	OLD BRIDGE TWP	402446	0742039	10.00	90.0	0.00	402446074203901	211DDBG	75.00	90.00	P	N	19840716		91.0	230747
230748	PERTH AMBOY WATER DEPARTM	RUNYON TW-B4	OLD BRIDGE TWP	402446	0742040	10.00	75.0	0.00	402446074204001	211DDBG	65.00	75.00	U	D	19840702		96.5	230748
230749	PERTH AMBOY WATER DEPARTM	RUNYON TW-B5	OLD BRIDGE TWP	402447	0742038	10.00	90.0	0.00	402447074203801	211DDBG	80.00	90.00	U	D	19840723		95.0	230749
230750	PERTH AMBOY WATER DEPARTM	RUNYON TW-B10	OLD BRIDGE TWP	402445	0742044	10.00	57.0	0.00	402445074204601	211DDBG	52.00	57.00	U	D	19840626		63.0	230750
230751	PROTINICK, MICHAEL	CRANBURY TWP	CRANBURY TWP	401930	0743930	110.00	170	0.00	401930074393001	211DDBG	70.00	170.00	I	N	19810312	28-12272	180	230751
230753	ARDNSON & GREENBERG	CRANBURY TWP	CRANBURY TWP	401728	0743124	80.00	130	0.00	401728074312401	211MRPA	80.00	130.00	I	N	19810104	28-12289	130	230753
230754	MURPHY, RICHARD	MURPHY 1	CRANBURY TWP	401748	0743111	100.00	130	0.00	401748074311101	211DDBG	120.00	130.00	N	N	19731007	28-08800	135	230754
230755	WILLIAMS, MICHAEL	WILLIAMS 1	MONROE TWP	401910	0742311	170.00	180	0.00	401910074231101	211DDBG	170.00	180.00	N	N	19791120	28-11494	180	230755
230756	FALTER, EDWARD	FALTER 1	MONROE TWP	401825	0742453	70.00	175	0.00	401825074245301	211DDBG	170.00	175.00	N	N	19740501	28-08344	175	230756
230757	CORSE, DOROTHY	CORSE 1	JAMESBURG BORO	402162	0742437	80.00	113	0.00	402100074243701	211DDBG	110.00	113.00	N	N	19770104	28-09444	113	230757
230758	TARINO, ANGELO	TARINO 1	MONROE TWP	402208	0742718	100.00	49.0	0.00	402208074271801	211DDBG	46.00	49.00	N	N	19540427	28-01214	55.0	230758
230759	BROWN, DORIS	BROWN 1	MONROE TWP	401824	0742248	120.00	256	4.00	401824074224801	211DDBG	250.00	256.00	N	N	19820603	28-12941	274	230759
230760	OLMA, FRANK	OLMA 1	MONROE TWP	401903	0742240	160.00	360	0.00	401903074224001	211FRNG	350.00	360.00	N	N	19830427	28-13424	360	230760
230761	WILDEN, JOHANNES	WILDEN 1	MONROE TWP	401804	0742318	70.00	285	0.00	401804074231801	211DDBG	275.00	285.00	N	N	19830718	28-13538	287	230761
230762	SHOVEY, JAMES	SHOVEY 1	OLD BRIDGE TWP	402030	0742152	55.00	184	0.00	402030074215201	211DDBG	178.00	184.00	N	N	19830808	28-13449	193	230762
230763	STILES, LEN	STILES 1	OLD BRIDGE TWP	402510	0741452	100.00	175	0.00	402510074145201	211DDBG	171.00	175.00	N	N	19760925	29-08488	177	230763
230764	EHLER, MARY	EHLER 1	OLD BRIDGE TWP	402422	0741824	40.00	140	0.00	402422074182401	211DDBG	134.00	140.00	N	N	19801002	29-10831	140	230764
230765	JORDAN, ANTHONY	JORDAN 1	OLD BRIDGE TWP	402157	0741937	110.00	236	4.00	402157074193701	211DDBG	230.00	236.00	N	N	19840711	29-13871	247	230765
230766	SOUTH OLD BRIDGE FD	ENGINE 3	OLD BRIDGE TWP	402127	0742214	80.00	180	0.00	402127074221401	211DDBG	172.00	180.00	U	N	19750508	28-08774	180	230766
230767	OLBRYS, RICHARD	OLBRYS 1	MONROE TWP	402039	0742238	60.00	186	0.00	402039074223801	211DDBG	181.00	186.00	N	N	19780316	28-10201	186	230767
230768	ETSCH, ROY	OLD 1 DBS	JAMESBURG BORO	401914	0742326	185.00	50.0	0.00	401914074232601	211EGLS	38.00	50.00	U	D	19820916	28-13095	60.0	230768
230769	MILADINOV, ELIJA	MILADINOV 1	MONROE TWP	401728	0742504	120.00	234	0.00	401728074250401	211DDBG	228.00	234.00	N	N	19820303	28-12772	280	230769
230770	JURCELBKY, FRANK	HOUSE WELL	MONROE TWP	401618	0742500	140.00	325	0.00	401618074250001	211DDBG	315.00	325.00	N	N	19820423	28-12877	325	230770

UNIQUE ID	SITE OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230771	SCHARF, STEVEN	SCHARF 1	MONROE TWP	401716	0742449	110.00	320	4.00	401718074244901	211ODBG	310.00	320.00	N	W	19821123	28-13112	330	230771
230772	KOKOSA, GEORGE	KOKOSA 1	MONROE TWP	402036	0742706	145.00	150	0.00	402036074270601	211ODBG	147.00	150.00	N	W	19560824	28-01994	151	230772
230773	TEE-N-JAY FARM	T-N-J 1	MONROE TWP	401942	0742232	90.00	295	0.00	401942074223201	211ODBG	285.00	295.00	N	W	19731201	28-08150	295	230773
230774	RESNICK, LEWIS	RESNICK 1	MONROE TWP	401623	0742819	110.00	215	0.00	401623074281901	211ODBG	205.00	215.00	N	W	19810530	28-12288	215	230774
230775	SEPTAK, JOHN J	SEPTAK 1	MONROE TWP	401717	0742721	120.00	190	0.00	401717074272101	211ODBG	182.00	190.00	N	W	19791019	28-11436	190	230775
230776	SIMONSON BROS	HOUSE WELL	PLAINSBORO TWP	402047	0743329	80.00	70.0	0.00	402047074332901	211FRNG	65.00	70.00	N	W	19850731	28-15632	70.0	230776
230777	CHOU (SHADOW OAKS)	CHOU 1	CRANBURY TWP	401746	0743208	100.00	88.0	0.00	401748074320801	211ODBG	80.00	88.00	N	W	19810603	28-11996	88.0	230777
230778	FINN, WILLIAM	FINN 1	CRANBURY TWP	401834	0743311	100.00	130	0.00	401834074331101	211FRNG	122.00	130.00	N	W	19830624	28-13514	130	230778
230779	BERESFORD, JAMES	THRIFT STORE	CRANBURY TWP	401813	0743043	120.00	120	0.00	401813074304301	211ODBG	110.00	120.00	C	W	19750402	28-08750	120	230779
230780	ZAITZ, MAX (HIRSCH)	ZAITZ 1	CRANBURY TWP	401826	0743330	100.00	90.0	0.00	401826074333001	211FRNG	85.00	90.00	N	W	19690115	28-06575	90.0	230780
230781	JOCAMA CONST CO	OLD BRIDGE TWP	OLD BRIDGE TWP	402225	0741821	60.00	235	0.00	401821074222501	211ODBG	225.00	235.00	N	W	19800828	28-11788	235	230781
230782	OLD BRIDGE MUA	OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337	0.00	402353074205601	211FRNG	230.00	245.00	P	W	19840801	28-14095	345	230782
230782		OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337		402353074205601	211FRNG	255.00	265.00	P	W			345	230782
230782		OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337		402353074205601	211FRNG	272.00	302.00	P	W			345	230782
230782		OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337		402353074205601	211FRNG	312.00	317.00	P	W			345	230782
230782		OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337		402353074205601	211FRNG	322.00	327.00	P	W			345	230782
230782		OLD BRIDGE 12	OLD BRIDGE TWP	402353	0742056	30.00	337		402353074205601	211FRNG	330.00	337.00	P	W			345	230782
230783	OLD BRIDGE PARKS&REC	SOCCER ASSN 1	OLD BRIDGE TWP	402327	0741620	90.00	265	0.00	402302074162001	211ODBG	245.00	265.00	I	W	19830518	29-12817	265	230783
230784	NAVEDO, JOE	NAVEDO 1	OLD BRIDGE TWP	402327	0742054	30.00	69.0	0.00	402327074205401	211ODBG	63.00	69.00	N	W	19820701	28-13023	70.0	230784
230785	SKIBTINAS, CHARLES	PEROSA 1	EAST BRUNSWICK TWP	402358	0742518	140.00	121	0.00	402358074251801	211ODBG	116.00	121.00	N	W	19741101	28-08449	124	230785
230786	HOSTETLER, HENRY	HOLETELER 1	PLAINSBORO TWP	401919	0743403	100.00	63.0	0.00	401919074340301	211FRNG	55.00	63.00	N	W	19791120	28-11901	63.0	230786
230787	ELY, JOHN	ELY 1	SOUTH BRUNSWICK TWP	402128	0743055	100.00	110	0.00	402128074305501	211FRNG	100.00	110.00	N	W	19810807	23-12434	120	230787
230788	EAST BRUNSWICK TWP	OBS WELL 7	EAST BRUNSWICK TWP	402430	0742552	95	132.75		402430074255201	211FRNG	126.75	132.75	U	I	19731016	28-08850	160	230788
230789	EAST BRUNSWICK TWP	OBS WELL 6	EAST BRUNSWICK TWP	402416	0742553	130	276.25		402416074255301	211FRNG	212.25	217.25	U	I	19731002	28-08812	289	230789
230789		OBS WELL 6	EAST BRUNSWICK TWP	402416	0742553	130	276.25		402416074255301	211FRNG	271.25	276.25	U	I			289	230789
230790	US GEOLOGICAL SURVEY	S. RIVER HIGH	SOUTH RIVER BORO	402627	0742247	75		6.25	402627074224701				U	T	19850903	28-15614	147	230790
230791	US GEOLOGICAL SURVEY	LIMPRO	PLAINSBORO TWP	401940	0743353	80		6.25	401940074335301				U	T	19850912	28-15615	130	230791
230792	PRINCETON UNIVERSITY	TEST WELL 1	PLAINSBORO TWP	402059	0743601	97.6	60.0		402058074360101	231SCKN	31.0	60.0	U	D	19851201	28-16112	60.0	230792
230793	PRINCETON UNIVERSITY	TEST WELL 2	PLAINSBORO TWP	402100	0743601	97.7	68.0		402059074360101	231SCKN	31.0	68.0	U	D	19851201	28-16113	68.0	230793
230794	PRINCETON UNIVERSITY	TEST WELL 3	PLAINSBORO TWP	402100	0743559	95.9	81.0		402058074360001	231SCKN	30.0	81.0	U	D	19851201	28-16114	81.0	230794
230795	PRINCETON UNIVERSITY	TEST WELL 4	PLAINSBORO TWP	402100	0743559	96.7	120.0		402058074360002	231SCKN	100.0	120.0	U	D	19851201	28-16115	120.0	230795
230796	PRINCETON UNIVERSITY	TEST WELL 5	PLAINSBORO TWP	402058	0743559	96.7	60.0		402058074355901	231SCKN	20	60.0	U	D	19851201	28-16116	60.0	230796
230797	PRINCETON UNIVERSITY	TEST WELL 6	PLAINSBORO TWP	402100	0743557	95.9	73.0		402059074355701	231SCKN	26	73	U	D	19851201	28-16117	73.0	230797
230798	PRINCETON UNIVERSITY	TEST WELL 7	PLAINSBORO TWP	402100	0743600	93.4	85.0		402059074360001	231SCKN	41.0	85.0	U	D	19851201	28-16118	85.0	230798
230799	PRINCETON UNIVERSITY	TEST WELL 8	PLAINSBORO TWP	402100	0743558	93.8	75.0		402059074355801	231SCKN	30	75.0	U	D	19851201	28-16119	75.0	230799
230800	PRINCETON UNIVERSITY	TEST WELL 9	PLAINSBORO TWP	402058	0743559	96.8	110.0		402058074355902	231SCKN	90.0	110.0	U	D	19860201	28-16120	110.0	230800
230801	PRINCETON UNIVERSITY	TEST WELL 10	PLAINSBORO TWP	402100	0743601	97.1	125.0		402059074360102	231SCKN	100.0	125.0	U	D	19860201	28-16251	125.0	230801
230802	BREESE	BREESE 1	SOUTH BRUNSWICK TWP	402323	0742838	100.	122.	8.5	402323074283801	211FRNG	112.	122.	N	W	19810122	28-12037	126.	230802
230803	CABOURY	CABOURY 1	MONROE TWP	402224	0742500	40.	60.	4.	402224074250001	211ODBG	30.	60.	N	W	19801101	28-14176	60.	230803
230804	MIDDLESEX COUNTY UTILITIE	R-01	WOODBRIDGE TWP	402945	0741937	3.4			402945074193701					T	19670000		36.5	230804
230805	MIDDLESEX COUNTY UTILITIE	R-02	WOODBRIDGE TWP	402948	0741939	4.4			402948074193901					T	19670000		31.5	230805
230806	MIDDLESEX COUNTY UTILITIE	WOODBRIDGE TWP		402952	0741939	3.5			402952074193901					T	19670000		31.5	230806
230807	MIDDLESEX COUNTY UTILITIE	R-04	WOODBRIDGE TWP	402957	0741933	5.0			402957074193301					T	19670000		26.5	230807
230808	MIDDLESEX COUNTY UTILITIE	R-05	WOODBRIDGE TWP	403008	0741919	2.8			403008074191901					T	19670000		31.5	230808
230809	MIDDLESEX COUNTY UTILITIE	R-06	WOODBRIDGE TWP	403012	0741913	4.4			403012074191301					T	19670000		26.5	230809
230810	MIDDLESEX COUNTY UTILITIE	R-08	WOODBRIDGE TWP	402946	0741933	-16.3			402946074193301					T	19670000		36.	230810
230811	MIDDLESEX COUNTY UTILITIE	R-09	WOODBRIDGE TWP	402936	0741928	4.4			402936074192801				U	T	19670000		58.5	230811
230812	MIDDLESEX COUNTY UTILITIE	R-10	SAYREVILLE BORO	402922	0741918	-4.			402922074191801					T	19670000		58.	230812
230813	MIDDLESEX COUNTY UTILITIE	R-11	SAYREVILLE BORO	402919	0741916	-8.1			402919074191601					T	19670000		46.0	230813
230814	TRANSCONTINENTAL GAS PIPE	TC-243	OLD BRIDGE TWP	402803	0741405	0.0			402803074140501				U	T	19630713		29.1	230814
230815	TITANIUM PIGMENT CO.	TP-T01B	WOODBRIDGE TWP	403014	0741728	0.0			403014074172801				U	T	19360707		44.	230815
230816	TITANIUM PIGMENT CO.	TP-T02B	WOODBRIDGE TWP	403039	0741808	0.0			403039074180801				U	T	19360709		38.	230816
230817	TITANIUM PIGMENT CO.	TP-T03B	WOODBRIDGE TWP	403029	0741838	0.0			403029074183801				U	T	19360710		75.	230817
230818	TITANIUM PIGMENT CO.	TP-T04	WOODBRIDGE TWP	403029	0741827	0.0			403029074182701				U	T	19360711		39.5	230818
230819	TITANIUM PIGMENT CO.	TP-T05B	WOODBRIDGE TWP	403022	0741843	0.0			403022074184301				U	T	19360713		70.	230819
230820	TITANIUM PIGMENT CO.	TP-T06	WOODBRIDGE TWP	403021	0741838	0.0			403021074183801				U	T	19360713		32.	230820
230821	TITANIUM PIGMENT CO.	TP-T07	WOODBRIDGE TWP	403020	0741844	0.0			403020074184401				U	T	19360713		30.	230821
230822	TITANIUM PIGMENT CO.	TP-T08B	WOODBRIDGE TWP	403019	0741840	0.0			403019074184001				U	T	19360714		71.	230822
230823	TITANIUM PIGMENT CO.	TP-T09	WOODBRIDGE TWP	403018	0741845	0.0			403018074184501				U	T	19360714		33.5	230823
230824	TITANIUM PIGMENT CO.	TP-T10	SAYREVILLE BORO	403017	0741841	0.0			403017074184101				U	T	19360715		32.5	230824
230825	TITANIUM PIGMENT CO.	TP-T11B	SAYREVILLE BORO	403016	0741845	0.0			403016074184501				U	T	19360715		37.	230825
230826	TITANIUM PIGMENT CO.	TP-T12	SAYREVILLE BORO	403014	0741842	0.0			403014074184201				U	T	19360715		31.	230826
230827	TITANIUM PIGMENT CO.	TP-T13	SAYREVILLE BORO	403013	0741847	0.0			403013074184701				U	T	19360716		48.75	230827
230828	TITANIUM PIGMENT CO.	TP-T14	SAYREVILLE BORO	403010	0741844	0.0			403010074184401				U	T	19360716		57.5	230828
230829	TITANIUM PIGMENT CO.	TP-T15	SAYREVILLE BORO	403008	0741845	0.0			403008074184501				U	T	19360716		53.	230829
230830	TITANIUM PIGMENT CO.	TP-T16	SAYREVILLE BORO	403007	0741850	0.0			403007074185001				U	T	19360717		41.	230830
230831	TITANIUM PIGMENT CO.	TP-T17	SAYREVILLE BORO	403005	0741846	0.0			403005074184601				U	T	19360717		35.	230831
230832	TITANIUM PIGMENT CO.	TP-T18	SAYREVILLE BORO	403005	0741851	0.0			403005074185101				U	T	19360719		52.5	230832
230833	TITANIUM PIGMENT CO.	TP-T19B	SAYREVILLE BORO	403002	0741848	0.0			403002074184801						19360717			230833
230834	TITANIUM PIGMENT CO.	TP-T20	SAYREVILLE BORO	403003	0741852	0.0			403003074185201				U	T	19360724		61.5	230834
230835	TITANIUM PIGMENT CO.	TP-T21	SAYREVILLE BORO	403000	0741849	0.0			403000074184901				U	T	19360721		59.	230835
230836	TITANIUM PIGMENT CO.	TP-T22	SAYREVILLE BORO	403001	0741853	0.0			403001074185301				U	T	19360723		46.5	230836
230837	TITANIUM PIGMENT CO.	TP-T23	SAYREVILLE BORO	402958	0741847	0.0			402958074184701				U	T	19360721		49.	230837
230838	TITANIUM PIGMENT CO.	TP-T24	SAYREVILLE BORO	402958	0741849	0.0			402958074184901				U	T	19360722		44.	230838
230839	TITANIUM PIGMENT CO.	TP-T25	SAYREVILLE BORO	402958	0741854	0.0			402958074185401				U	T	19360723		52.	230839
230840	TITANIUM PIGMENT CO.	TP-T26	SAYREVILLE BORO	402957	0741850	0.0			402957074185001				U	T	19360722		41.	230840
230841	TITANIUM PIGMENT CO.	TP-T27	SAYREVILLE BORO	402956	0741855	0.0			402956074185501				U	T	19360723		37.	230841
230842	TITANIUM PIGMENT CO.	TP-T28	SAYREVILLE BORO	402953	0741852	0.0			402953074185201				U	T	19360723		39.	230842
230843	TITANIUM PIGMENT CO.	TP-T30	WOODBRIDGE TWP	403027	0741833	0.0			403027074183301				U	T	19360720		70.	230843
230844	TITANIUM PIGMENT CO.	TP-T31	WOODBRIDGE TWP	403026	0741831	0.0			403026074183101				U	T	19360720		63.	230844
230845	TITANIUM PIGMENT CO.	TP-T32	SAYREVILLE BORO	403024	0741830	0.0			403024074183001				U	T	19360721		53.	230845
230846	US ARMY CORPS OF ENGINEER	DH-A-1	EDISON TWP	402913	0742030	8.0			402913074203001				U	T	19650700		63.7	230846
230847	US ARMY CORPS OF ENGINEER	DH-A-2	EDISON TWP	402905	0742028	-2.5			402905074202801				U	T	19650700		61.	230847
230848	US ARMY CORPS OF ENGINEER	DH-A-3	SAYREVILLE BORO	402858	0742024	0.0			402858074202401				U	T	19650700		67.	230848
230849	US ARMY CORPS OF ENGINEER	DH-A-4	SAYREVILLE BORO	402854	0742024	-2.5			402854074202401				U	T	19650700		64.8	230849
230850	US ARMY CORPS OF ENGINEER	DH-A-5	SAYREVILLE BORO	402846	0742020	5.8			402846074202001				U	T	19650700		82.	230850
230851	US ARMY CORPS OF ENGINEER	DH-A-6	WOODBRIDGE TWP	402945	0741939	7.0			402945074193901				U	T	19650700		30.	230851
230852	US ARMY CORPS OF ENGINEER	DH-20E	SAYREVILLE BORO	402804	0742240	5.6			402804074224001				U	T			56.	230852
230853	US ARMY CORPS OF ENGINEER	DH-21E	SAYREVILLE BORO	402813	0742232	5.6			402813074223201				U	T			56.	230853
230854	US ARMY CORPS OF ENGINEER	DH-22E	SAYREVILLE BORO	402816	0742221	5.6			402816074222101				U	T			56.	230854

UNIQUE ID	SITE	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL	W S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
230855	US ARMY CORPS OF ENGINEER	DH-23E	SAYREVILLE BORO	402818	0742208	6.0			402818074220801			U T			36.	230855
230856	US ARMY CORPS OF ENGINEER	DH-24E	EDISON TWP	402826	0742155	6.0			402826074215501			U T			36.	230856
230857	US ARMY CORPS OF ENGINEER	DH-25E	EDISON TWP	402832	0742144	6.1			402832074214401			U T			36.	230857
230858	US ARMY CORPS OF ENGINEER	DH-26E	EDISON TWP	402837	0742133	7.0			402837074213301			U T			37.	[illegible]
230859	US ARMY CORPS OF ENGINEER	DH-27E	SAYREVILLE BORO	402846	0742115	7.4			402846074211501			U T				
230860	US ARMY CORPS OF ENGINEER	DH-28E	SAYREVILLE BORO	402855	0742100	7.0			402855074210001			U T			34.	230860
230861	US ARMY CORPS OF ENGINEER	DH-31F	EDISON TWP	402837	0742138	6.1			402837074213801			U T			30.	230861
230862	MIDDLESEX COUNTY UTILITIE	D-01	SOUTH AMBOY CITY	402912	0741640	8.4			402912074164001			U T	19550300		17.	230862
230863	MIDDLESEX COUNTY UTILITIE	D-04	SOUTH AMBOY CITY	402932	0741806	8.9			402932074180601			U T	19550300		39.	230863
230864	MIDDLESEX COUNTY UTILITIE	D-16	SOUTH AMBOY CITY	402848	0741442	0.0			402848074144201			U T	19550300		98.	230864
230865	MIDDLESEX COUNTY UTILITIE	D-19	SOUTH AMBOY CITY	402851	0741455	0.0			402851074145501			U T	19550300		88.	230865
230866	MIDDLESEX COUNTY UTILITIE	D-29	SOUTH AMBOY CITY	402900	0741542	0.0			402900074154201			U T	19550300		50.	230866
230867	MIDDLESEX COUNTY UTILITIE	D-30	SOUTH AMBOY CITY	402901	0741550	0.0			402901074155001			U T	19550300		101.	230867
230868	MIDDLESEX COUNTY UTILITIE	D-33	SOUTH AMBOY CITY	402904	0741605	0.0			402904074160501			U T	19550300		25.	230868
230869	MIDDLESEX COUNTY UTILITIE	D-35	SOUTH AMBOY CITY	402905	0741615	0.0			402905074161501			U T	19550300		20.	230869
230870	MIDDLESEX COUNTY UTILITIE	D-37	SOUTH AMBOY CITY	402908	0741630	2.7			402908074163001			U T	19550300		20.5	230870
230871	MIDDLESEX COUNTY UTILITIE	D-43	SOUTH AMBOY CITY	402910	0741643	13.4			402910074164301			U T	19550300		21.	230871
230872	MIDDLESEX COUNTY UTILITIE	D-50	SOUTH AMBOY CITY	402915	0741654	25.5			402915074165401			U T	19550300		34.	230872
230873	MIDDLESEX COUNTY UTILITIE	D-54	SOUTH AMBOY CITY	402925	0741740	28.5			402925074174001			U T	19550300		30.5	230873
230874	MIDDLESEX COUNTY UTILITIE	D-57A	SOUTH AMBOY CITY	402926	0741822	118.			402926074182201			U T	19550300		110.	230874
230875	MIDDLESEX COUNTY UTILITIE	D-57A6	SOUTH AMBOY CITY	402928	0741816	108.8			402928074181601			U T	19550300		39.	230875
230876	MIDDLESEX COUNTY UTILITIE	D-58	SOUTH AMBOY CITY	402924	0741828	103.2			402924074182801			U T	19550300		86.	230876
230877	MIDDLESEX COUNTY UTILITIE	BR-01	SAYREVILLE BORO	402802	0742212	6.0		2.5	402802074221201			U T	19750314		40.	230877
230878	MIDDLESEX COUNTY UTILITIE	BR-02	SAYREVILLE BORO	402800	0742213	4.9		2.5	402800074221301			U T	19750314		39.5	230878
230879	MIDDLESEX COUNTY UTILITIE	BR-03	SAYREVILLE BORO	402757	0742216	3.4		2.5	402757074221601			U T	19750319		31.5	230879
230880	MIDDLESEX COUNTY UTILITIE	BR-04	SAYREVILLE BORO	402753	0742217	6.6		2.5	402753074221701			U T	19750317		30.	230880
230881	MIDDLESEX COUNTY UTILITIE	BR-05	SAYREVILLE BORO	402748	0742216	3.5		2.5	402748074221601			U T	19750317		30.	230881
230882	MIDDLESEX COUNTY UTILITIE	BR-06	SAYREVILLE BORO	402743	0742215	3.0		2.5	402743074221501			U T	19750317		30.	230882
230883	MIDDLESEX COUNTY UTILITIE	SR-07	SAYREVILLE BORO	402739	0742215	3.4		2.5	402739074221501			U T	19750319		31.5	230883
230884	MIDDLESEX COUNTY UTILITIE	SR-08	SAYREVILLE BORO	402735	0742215	3.6		2.5	402735074221501			U T	19750319		36.	230884
230885	MIDDLESEX COUNTY UTILITIE	BR-09	SAYREVILLE BORO	402731	0742215	5.		2.5	402731074221501			U T	19750318		30.	230885
230886	MIDDLESEX COUNTY UTILITIE	BR-10	SAYREVILLE BORO	402727	0742214	5.3		2.5	402727074221401			U T	19750318		31.5	230886
230887	MIDDLESEX COUNTY UTILITIE	SR-11	SAYREVILLE BORO	402725	0742214	8.6		2.5	402725074221401			U T	19750318		30.	230887
230888	MIDDLESEX COUNTY UTILITIE	BR-12	SAYREVILLE BORO	402721	0742213	0.		2.5	402721074221301			U T	19750318		30.	230888
230889	MIDDLESEX COUNTY UTILITIE	SR-13	SAYREVILLE BORO	402719	0742213	10.8		2.5	402719074221301			U T	19750317		30.	230889
230890	MIDDLESEX COUNTY UTILITIE	SR-14	SAYREVILLE BORO	402717	0742213	8.7		2.5	402717074221301			U T	19750319		31.5	230890
230891	MIDDLESEX COUNTY UTILITIE	SR-15	SAYREVILLE BORO	402716	0742211	2.4		2.5	402716074221101			U T	19750319		30.	230891
230892	MIDDLESEX COUNTY UTILITIE	SR-16	SAYREVILLE BORO	402712	0742212	8.0		2.5	402712074221201			U T	19750319		30.	230892
230893	MIDDLESEX COUNTY UTILITIE	SR-17	SAYREVILLE BORO	402709	0742212	7.2		2.5	402709074221201			U T	19750321		31.5	230893
230894	MIDDLESEX COUNTY UTILITIE	SR-18	SAYREVILLE BORO	402705	0742209	7.8		2.5	402705074220901			U T	19750407		32.	230894
230895	MIDDLESEX COUNTY UTILITIE	BR-19	SAYREVILLE BORO	402703	0742206	7.4		2.5	402703074220601			U T	19750404		32.	230895
230896	MIDDLESEX COUNTY UTILITIE	SR-20	SAYREVILLE BORO	402659	0742201	10.		2.5	402659074220101			U T	19750321		26.5	230896
230897	MIDDLESEX COUNTY UTILITIE	SR-21	SAYREVILLE BORO	402658	0742159	3.9		2.5	402658074215901			U T	19750321		26.5	230897
230898	MIDDLESEX COUNTY UTILITIE	SR-23	SAYREVILLE BORO	402652	0742152	8.5		2.5	402652074215201			U T	19750321		25.	230898
230899	MIDDLESEX COUNTY UTILITIE	SR-24	SAYREVILLE BORO	402651	0742143	8.3		2.5	402651074214301			U T	19750321		26.5	230899
230900	MIDDLESEX COUNTY UTILITIE	BR-25	SAYREVILLE BORO	402651	0742139	9.2		2.5	402651074213901			U T	19750320		26.5	230900
230901	MIDDLESEX COUNTY UTILITIE	BR-26	SAYREVILLE BORO	402651	0742132	10.0		2.5	402651074213201			U T	19750321		32.	230901
230902	MIDDLESEX COUNTY UTILITIE	BR-28	SAYREVILLE BORO	402647	0742129	3.5		2.5	402647074212901			U T	19750325		26.5	230902
230903	MIDDLESEX COUNTY UTILITIE	BR-30	SAYREVILLE BORO	402642	0742128	3.6		2.5	402642074212801			U T	19750408		32.	230903
230904	MIDDLESEX COUNTY UTILITIE	SR-31	SAYREVILLE BORO	402628	0742122	9.18		2.5	402628074212201			U T	19750325		33.	230904
230905	MIDDLESEX COUNTY UTILITIE	BR-32	SAYREVILLE BORO	402623	0742121	9.74		2.5	402623074212101			U T	19750325		37.	230905
230906	MIDDLESEX COUNTY UTILITIE	BR-34	SAYREVILLE BORO	402614	0742115	7.03		2.5	402614074211501			U T	19750408		27.	230906
230907	MIDDLESEX COUNTY UTILITIE	BR-35	SAYREVILLE BORO	402608	0742113	8.84		2.5	402608074211301			U T	19750326		31.5	230907
230908	MIDDLESEX COUNTY UTILITIE	BR-36	SAYREVILLE BORO	402605	0742112	8.22		2.5	402605074211201			U T	19750326		21.5	230908
230909	MIDDLESEX COUNTY UTILITIE	BR-37	SAYREVILLE BORO	402558	0742108	7.19		2.5	402558074210801			U T	19750326		27.	230909
230910	MIDDLESEX COUNTY UTILITIE	BR-39	SAYREVILLE BORO	402553	0742107	1.2		2.5	402553074210701			U T	19750403		43.	230910
230911	MIDDLESEX COUNTY UTILITIE	BR-41	SAYREVILLE BORO	402543	0742108	8.66		2.5	402543074210801			U T	19750326		22.	230911
230912	MIDDLESEX COUNTY UTILITIE	BR-42	SAYREVILLE BORO	402535	0742110	8.99		2.5	402535074211001			U T	19750327		22.	230912
230913	MIDDLESEX COUNTY UTILITIE	BR-43	SAYREVILLE BORO	402527	0742111	9.0		2.5	402527074211101			U T	19750328		27.	230913
230914	MIDDLESEX COUNTY UTILITIE	BR-44	SAYREVILLE BORO	402525	0742112	11.91		2.5	402525074211201			U T	19750327		21.5	230914
230915	MIDDLESEX COUNTY UTILITIE	BR-46	SAYREVILLE BORO	402519	0742113	7.38		2.5	402519074211301			U T	19750327		22.5	230915
230916	MIDDLESEX COUNTY UTILITIE	BR-47	SAYREVILLE BORO	402517	0742115	1.3		2.5	402517074211501			U T	19750401		38.2	230916
230917	MIDDLESEX COUNTY UTILITIE	BR-48	OLD BRIDGE TWP	402516	0742116	3.27		2.5	402516074211601			U T	19750327		21.5	230917
230918	MIDDLESEX COUNTY UTILITIE	BR-48C	OLD BRIDGE TWP	402514	0742114	2.61		2.5	402514074211401			U T	19750411		24.	230918
230919	MIDDLESEX COUNTY UTILITIE	BR-52	OLD BRIDGE TWP	402509	0742123	4.0		2.5	402509074212301			U T	19750411		22.	230919
230920	MIDDLESEX COUNTY UTILITIE	BR-53	OLD BRIDGE TWP	402505	0742128	11.99		2.5	402505074212801			U T	19750328		21.5	230920
230921	MIDDLESEX COUNTY UTILITIE	BR-54	OLD BRIDGE TWP	402502	0742134	4.27		2.5	402502074213401			U T	19750328		22.	230921
230922	MIDDLESEX COUNTY UTILITIE	SR-56	OLD BRIDGE TWP	402459	0742139	1.4		2.5	402459074213901			U T	19750402		33.	230922
230923	MIDDLESEX COUNTY UTILITIE	SR-57	OLD BRIDGE TWP	402457	0742142	4.25		2.5	402457074214201			U T	19750328		21.5	230923
230924	MIDDLESEX COUNTY UTILITIE	BR-58	EAST BRUNSWICK TWP	402454	0742149	7.93		2.5	402454074214901			U T	19750331		22.	230924
230925	MIDDLESEX COUNTY UTILITIE	BR-60	EAST BRUNSWICK TWP	402449	0742201	15.3		2.5	402449074220101			U T	19750331		27.	230925
230926	MIDDLESEX COUNTY UTILITIE	BR-63	EAST BRUNSWICK TWP	402606	0742118	15.		2.5	402606074211801			U T	19760318		27.	230926
230927	MIDDLESEX COUNTY UTILITIE	BR-66	EAST BRUNSWICK TWP	402605	0742122	8.48		2.5	402605074212201			U T	19760318		22.	230927
230928	MIDDLESEX COUNTY UTILITIE	BR-67	EAST BRUNSWICK TWP	402605	0742125	9.98		2.5	402605074212501			U T	19760319		22.	230928
230929	MIDDLESEX COUNTY UTILITIE	BR-68	EAST BRUNSWICK TWP	402603	0742128	3.96		2.5	402603074212801			U T	19760319		22.	230929
230930	MIDDLESEX COUNTY UTILITIE	BR-71	EAST BRUNSWICK TWP	402601	0742133	0.1		2.5	402601074213301			U T	19760323		27.	230930
230931	MIDDLESEX COUNTY UTILITIE	BR-72	EAST BRUNSWICK TWP	402602	0742135	15.73		2.5	402602074213501			U T	19760322		30.	230931
230932	PRINCETON UNIVERSITY	CORE HOLE 1	PLAINSBORO TWP	402058	0743559	98.			402058074355801	231SCKN		U Z			120	230932
230933	ELIZABETHTOWN WATER COMPA	EIGHTH STREET	SOUTH PLAINFIELD BORO	403549	0742608	70	350	12	403549074260801	231BRCK	81 350	P W	19630305	25-12632	350	230933
230934	AMERICAN METAL MOULDING C	FOUR	EDISON TWP	403208	0742418	120	300	15	403208074241801	231BRCK	50 300	N W	19821000	25-23302	300	230934
230934		FOUR	EDISON TWP	403208	0742418	120	300	10	403208074241801	231BRCK		N W			300	230934
230936	COLUMBIAN CHEMICALS	ELEVEN	SOUTH BRUNSWICK TWP	402258	0743340	80	305	12	402258074334001	231LCKG	26.5 305	N W	19510321	28-00247	305	230936
230936		ELEVEN	SOUTH BRUNSWICK TWP	402258	0743340	80	305	8	402258074334001	231LCKG		N W			305	230936
230937	MIDDLESEX COUNTY UTILITIE	L-3	SAYREVILLE BORO	402815	0742203	8.0		2.5	402815074220301			U T	19750331		40.	230937
230938	MIDDLESEX COUNTY UTILITIE	L-4	SAYREVILLE BORO	402815	0742204	-0.4		2.5	402815074220401			U T	19750326		35.5	230938
230939	MIDDLESEX COUNTY UTILITIE	L-5	SAYREVILLE BORO	402815	0742205	-0.1		2.5	402815074220501			U T	19750328		36.7	230939
230940	MIDDLESEX COUNTY UTILITIE	L-6	SAYREVILLE BORO	402816	0742206	8.82		2.5	402816074220601			U T	19750318		40.	230940
230941	MIDDLESEX COUNTY UTILITIE	L-7	SAYREVILLE BORO	402819	0742213	4.2		2.5	402819074221301			U T	19750325		40.	230941
230942	MIDDLESEX COUNTY UTILITIE	L-8	SAYREVILLE BORO	402820	0742214	3.9		2.5	402820074221401			U T	19750331		42.	230942
230943	MIDDLESEX COUNTY UTILITIE	L-9	SAYREVILLE BORO	402821	0742218	5.		2.5	402821074221801			U T	19750401		42.	230943

UNIQUE ID	S OWN	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL	W S	DATE	PERMIT	DEPTH DRILLED	
230944	MIDDLESEX COUNTY UTILITIE	L-10	SAYREVILLE BORO	402825	0742226	4.4	2.5	402825074222601			U T	19750402		42.	230944
230945	MIDDLESEX COUNTY UTILITIE	L-11	SAYREVILLE BORO	402828	0742232	10.8	2.5	402828074223201			U T	19750409		42.	230945
230946	MIDDLESEX COUNTY UTILITIE	L-12	SAYREVILLE BORO	402828	0742233	.07	2.5	402828074223301			U T	19750410		46.	230946
230947	MIDDLESEX COUNTY UTILITIE	L-13	SOUTH RIVER BORO	402829	0742234	.7		402829074223401			U T	19750410		42.	230947
230948	MIDDLESEX COUNTY UTILITIE	L-13A	SOUTH RIVER BORO	402830	0742236	5.0	2.5	402830074223601			U T	19750509		42.	230948
230949	MIDDLESEX COUNTY UTILITIE	L-14	SOUTH RIVER BORO	402830	0742237	3.9		402830074223701			U T	19750402		37.	230949
230950	MIDDLESEX COUNTY UTILITIE	L-15	SOUTH RIVER BORO	402831	0742240	3.6	2.5	402831074224001			U T	19750401		36.	230950
230951	MIDDLESEX COUNTY UTILITIE	L-16	SOUTH RIVER BORO	402833	0742242	3.96	2.5	402833074224201			U T	19750331		37.	230951
230952	MIDDLESEX COUNTY UTILITIE	L-17	SOUTH RIVER BORO	402836	0742249	3.66	2.5	402836074224901			U T	19750328		33.	230952
230953	MIDDLESEX COUNTY UTILITIE	L-18	SOUTH RIVER BORO	402838	0742253	5.06	2.5	402838074225301			U T	19750327		34.	230953
230954	MIDDLESEX COUNTY UTILITIE	L-19	SOUTH RIVER BORO	402840	0742259	4.26	2.5	402840074225901			U T	19750326		31.	230954
230955	MIDDLESEX COUNTY UTILITIE	L-20	SOUTH RIVER BORO	402841	0742301	3.1	2.5	402841074230101			U T	19750325		25.	230955
230956	MIDDLESEX COUNTY UTILITIE	L-21	SOUTH RIVER BORO	402844	0742306	4.9	2.5	402844074230601			U T	19750403		34.	230956
230957	MIDDLESEX COUNTY UTILITIE	L-22	SOUTH RIVER BORO	402846	0742309	7.21	2.5	402846074230901			U T	19750404		35.3	230957
230958	MIDDLESEX COUNTY UTILITIE	L-23	SOUTH RIVER BORO	402849	0742311	7.6	2.5	402849074231101			U T	19750403		40.	230958
230959	MIDDLESEX COUNTY UTILITIE	L-24	SOUTH RIVER BORO	402851	0742313	11.16	2.5	402851074231301			U T	19750327		21.	230959
230960	MIDDLESEX COUNTY UTILITIE	L-25	SOUTH RIVER BORO	402853	0742316	11.34	2.5	402853074231601			U T	19750326		23.	230960
230961	MIDDLESEX COUNTY UTILITIE	L-26	SOUTH RIVER BORO	402854	0742318	10.2	2.5	402854074231801			U T	19750324		39.	230961
230962	MIDDLESEX COUNTY UTILITIE	L-27	SOUTH RIVER BORO	402855	0742320	10.0	2.5	402855074232001			U T	19750324		18.	230962
230963	MIDDLESEX COUNTY UTILITIE	L-28	SOUTH RIVER BORO	402856	0742326	7.4	2.5	402856074232601			U T	19750324		30.	230963
230964	MIDDLESEX COUNTY UTILITIE	L-29	SOUTH RIVER BORO	402855	0742329	7.7	2.5	402855074232901			U T	19750324		34.	230964
230965	MIDDLESEX COUNTY UTILITIE	L-30	SOUTH RIVER BORO	402854	0742333	20.9	2.5	402854074233301			U T	19750321		50.	230965
230966	MIDDLESEX COUNTY UTILITIE	L-32	SOUTH RIVER BORO	402854	0742336	17.	2.5	402854074233601			U T	19750320		52.	230966
230967	MIDDLESEX COUNTY UTILITIE	L-33	SOUTH RIVER BORO	402853	0742341	6.0	2.5	402853074234101			U T	19750409		15.	230967
230968	MIDDLESEX COUNTY UTILITIE	L-34	SOUTH RIVER BORO	402854	0742342	9.6	2.5	402854074234201			U T	19750328		41.	230968
230969	MIDDLESEX COUNTY UTILITIE	L-36	SOUTH RIVER BORO	402855	0742343	9.9	2.5	402855074234301			U T	19750327		33.	230969
230970	MIDDLESEX COUNTY UTILITIE	L-38	SOUTH RIVER BORO	402859	0742346	1.3	2.5	402859074234601			U T	19750411		19.8	230970
230971	MIDDLESEX COUNTY UTILITIE	L-39	NEW BRUNSWICK CITY	402903	0742347	6.3	2.5	402903074234701			U T	19750319		28.	230971
230972	MIDDLESEX COUNTY UTILITIE	L-40	NEW BRUNSWICK CITY	402906	0742346	6.5	2.5	402906074234601			U T	19750316		27.	230972
230973	NEW JERSEY HIGHWAY DEPART	NJ-01	SAYREVILLE BORO	403023	0741804	2.6		403023074180401			U T	19380107		68.5	230973
230974	NEW JERSEY HIGHWAY DEPART	NJ-02	SAYREVILLE BORO	403023	0741803	2.6		403023074180301			U T	19380108		62.	230974
230975	NEW JERSEY HIGHWAY DEPART	NJ-03	SAYREVILLE BORO	403026	0741804	2.6		403026074180401			U T	19380111		78.5	230975
230976	NEW JERSEY HIGHWAY DEPART	NJ-04	SAYREVILLE BORO	403025	0741802	2.6		403025074180201			U T	19380112		66.	230976
230977	NEW JERSEY HIGHWAY DEPART	NJ-05	SAYREVILLE BORO	403027	0741804	2.6		403027074180401			U T	19380117		73.	230977
230978	NEW JERSEY HIGHWAY DEPART	NJ-06	SAYREVILLE BORO	403027	0741803	2.6		403027074180301			U T	19380115		93.	230978
230979	NEW JERSEY HIGHWAY DEPART	NJ-07	SAYREVILLE BORO	403030	0741804	2.6		403030074180401			U T	19380119		92.	230979
230980	NEW JERSEY HIGHWAY DEPART	NJ-08	SAYREVILLE BORO	403031	0741802	2.6		403031074180201			U T	19380118		81.	230980
230981	NEW JERSEY HIGHWAY DEPART	NJ-09	SAYREVILLE BORO	403033	0741803	2.6		403033074180301			U T	19380113		68.	230981
230982	NEW JERSEY HIGHWAY DEPART	NJ-10	SAYREVILLE BORO	403033	0741802	2.6		403033074180201			U T	19380114		67.	230982
230983	NEW JERSEY HIGHWAY DEPART	NJ-11	WOODBRIDGE TWP	403035	0741803	2.6		403035074180301			U T	19380111		74.5	230983
230984	NEW JERSEY HIGHWAY DEPART	NJ-12	WOODBRIDGE TWP	403034	0741802	2.6		403034074180201			U T	19380110		75.	230984
230985	NEW JERSEY HIGHWAY DEPART	NJ-13	WOODBRIDGE TWP	403037	0741803	2.6		403037074180301			U T	19380108		71.	230985
230986	NEW JERSEY HIGHWAY DEPART	NJ-14	WOODBRIDGE TWP	403037	0741802	2.6		403037074180201			U T	19380107		74.2	230986
230987	NEW JERSEY HIGHWAY DEPART	NJ-15	WOODBRIDGE TWP	403039	0741803	2.6		403039074180301			U T	19380114		74.6	230987
230988	NEW JERSEY HIGHWAY DEPART	NJ-16	WOODBRIDGE TWP	403039	0741802	2.6		403039074180201			U T	19380113		73.	230988
230989	NEW JERSEY HIGHWAY DEPART	NJ-17	WOODBRIDGE TWP	403040	0741803	2.6		403040074180301			U T	19380112		77.	230989
230990	NEW JERSEY HIGHWAY DEPART	NJ-18	WOODBRIDGE TWP	403041	0741802	2.6		403041074180201			U T	19380111		77.	230990
230991	NEW JERSEY HIGHWAY DEPART	NJ-19	WOODBRIDGE TWP	403042	0741803	2.6		403042074180301			U T	19380108		79.	230991
230992	NEW JERSEY HIGHWAY DEPART	NJ-20	WOODBRIDGE TWP	403042	0741802	2.6		403042074180201			U T	19380104		75.	230992
230993	NEW JERSEY HIGHWAY DEPART	NJ-21A	SAYREVILLE BORO	403025	0741804	2.6		403025074180401			U T	19380215		66.	230993
230994	NEW JERSEY HIGHWAY DEPART	NJ-22	SAYREVILLE BORO	403025	0741803	2.6		403025074180301			U T	19380221		62.3	230994
230995	NEW JERSEY HIGHWAY DEPART	NJ-23	SAYREVILLE BORO	403028	0741804	2.6		403028074180401			U T	19380221		80.	230995
230996	NEW JERSEY HIGHWAY DEPART	NJ-24	SAYREVILLE BORO	403027	0741802	2.6		403027074180201			U T	19380221		94.5	230996
230997	NEW JERSEY HIGHWAY DEPART	NJ-25	SAYREVILLE BORO	403030	0741804	2.6		403030074180402			U T	19380223		97.	230997
230998	NEW JERSEY HIGHWAY DEPART	NJ-26	SAYREVILLE BORO	403030	0741803	2.6		403030074180301			U T	19380221		81.	230998
230999	NEW JERSEY HIGHWAY DEPART	NJ-27	SAYREVILLE BORO	403025	0741804	2.6		403025074180402			U T	19380226		80.	230999
231000	US ARMY CORPS OF ENGINEER	DH-1	SAYREVILLE BORO	402845	0741529	0.0		402845074152901			U T	19630400		41.7	231000
231001	US ARMY CORPS OF ENGINEER	DH-2	SAYREVILLE BORO	402813	0741512	0.0		402813074151201			U T	19630400		22.	231001
231002	US ARMY CORPS OF ENGINEER	DH-3	OLD BRIDGE TWP	402823	0741436	0.0		402823074143601			U T	19630400		40.1	231002
231003	US ARMY CORPS OF ENGINEER	DH-4	OLD BRIDGE TWP	402751	0741413	0.0		402751074141301			U T	19630400		27.	231003
231004	US ARMY CORPS OF ENGINEER	DH-27A	SAYREVILLE BORO	402813	0741530	0.0		402813074153001			U T	19630400		35.	231004
231005	US ARMY CORPS OF ENGINEER	DH-28	OLD BRIDGE TWP	402755	0741458	0.0		402755074145801			U T	19630400		31.5	231005
231007	US ARMY CORPS OF ENGINEER	DH-30	OLD BRIDGE TWP	402731	0741348	0.0		402731074134801			U T	19630400		40.	231007
231008	CLARK, ROMAN	DOMESTIC	EAST BRUNSWICK TWP	402414	0742625	120	66	402414074262501	211DDBG	58	66 H W	19830222	28-13318	78	231008
231009	YAROS, JOHN	DOMESTIC	SOUTH BRUNSWICK TWP	402157	0743525	110	51	402127074351901	211MRPA		H W	19620816	28-04465	51	231009
231010	ZINSMEISTER, JACK	DOMESTIC	PLAINSBORO TWP	401844	0743448	60	79	401844074344801	211FRNG	76	79 H W	19670901	28-06237	81	231010
231011	MAN. & ENG. CORP.	M&E2	SAYREVILLE BORO	402833	0742041	6.	6.	402833074204101			U U	19290000		63.	231011
231012	MAN. & ENG. CORP.	M&E2A	SAYREVILLE BORO	402819	0742046	22.	6.	402819074204601			U U	19290000		73.6	231012
231013	MAN. & ENG. CORP.	M&E2B	SAYREVILLE BORO	402806	0742044	35.	8.	402806074204401			U U	19290000		163.	231013
231013		M&E2B	SAYREVILLE BORO	402806	0742044	35.	6	402806074204401			U U			163.	231013
231014	MAN. & ENG. CORP.	M&E3	SAYREVILLE BORO	402739	0742027	100.	6.	402739074202701			U U	19290000		311.	231014
231015	HERCULES POWDER CO	TEST WELL 5	SAYREVILLE BORO	402819	0742107	28.	128. 6.	402819074210701	211FRNG	120.9 128.	U W	19380113		129.	231015
231016	E.I. DUPONT	LAYNE 84	SAYREVILLE BORO	402722	0741942	88.	277.5 18.	402722074194201	211FRNG	221.58 257.	U W	19270807		292.	231016
231016		LAYNE 84	SAYREVILLE BORO	402722	0741942	88.	277.5 12.	402722074194201	211FRNG	267.17 277.5	U W			292.	231016
231017	SAYRE & FISHER	29A	SAYREVILLE BORO	402818	0742127	16.		402818074212701			U U			975.	231017
231018	E.I. DUPONT	1-A	SAYREVILLE BORO	402841	0742037	5.0	5.	402841074203701			U I	19410218		80.5	231018
231019	E.I. DUPONT	2-B	SAYREVILLE BORO	402840	0742029	15.	5.	402840074202901			U I	19410220		106.42	231019
231020	E.I. DUPONT	3-C	SAYREVILLE BORO	402838	0742022	10.	5.	402838074202201			U I	19410222		83.25	231020
231021	E.I. DUPONT	4-D	SAYREVILLE BORO	402836	0742014	15.	5.	402836074201401			U I	19410225		91.67	231021
231022	E.I. DUPONT	5-E	SAYREVILLE BORO	402835	0742007	15.	5.	402835074200701			U I	19410227		98.25	231022
231023	E.I. DUPONT	7-G	SAYREVILLE BORO	402833	0741950	25.	5.	402833074195001			U I	19410304		129.75	231023
231024	E.I. DUPONT	8-H	SAYREVILLE BORO	402833	0741942	25.	5.	402833074194201			U I	19410306		128.25	231024
231025	E.I. DUPONT	10-J	SAYREVILLE BORO	402834	0741926	10.	5.	402834074192601			U I	19410318		125.75	231025
231026	E.I. DUPONT	11-K	SAYREVILLE BORO	402845	0741924	14.	5.	402845074192401			U I	19410320		119.	231026
231027	E.I. DUPONT	13-M	SAYREVILLE BORO	402905	0741917	8.	5.	402905074191701			U I	19410315		99.17	231027
231028	E.I. DUPONT	14-N	SAYREVILLE BORO	402910	0741912	10.	5.	402910074191201			U I	19410313		98.67	231028
231029	NATIONAL LEAD	15-O	SAYREVILLE BORO	402916	0741908	18.	5.	402916074190801			U I	19410000		109.5	231029
231030	NATIONAL LEAD	16-P	SAYREVILLE BORO	402922	0741905	18.	5.	402922074190501			U I	19410118		108.75	231030
231031	NATIONAL LEAD	17-Q	SAYREVILLE BORO	402926	0741859	18.	5.	402926074185901			U I	19410210		120.67	231031
231032	NATIONAL LEAD	18-R	SAYREVILLE BORO	402929	0741853	18.	5.	402929074185301			U I	19410207		117.83	231032

UNIQUE ID	OWNER	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUDE	DEPTH	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL	W	S	DATE	PERMIT	DEPTH DRILLED	UNIQUE ID
231033	NATIONAL LEAD	19-S	SAYREVILLE BORO	402933	0741846	18.		5.	402933074184601			U	Z	19410205		111.5	231033
231034	NATIONAL LEAD	20-T	SAYREVILLE BORO	402937	0741840	18.		5.	402937074184001			U	Z	19410203		113.67	231034
231035	CALIFORNIA REFINING	TEST WELL #4	PERTH AMBOY CITY	403210	0741621	25.		6.	403210074162101			U	T	19510905	26-00111	110.	231035
231036	CALIFORNIA REFINING	TEST WELL #6	PERTH AMBOY CITY	403200	0741605	37.		6.	403200074160501			U	T	19510905	26-00122	106.	231036
231037	CALIFORNIA REFINING	TEST WELL #7	PERTH AMBOY CITY	403156	0741626	54.		6.	403156074162601			U	T	19510905	26-00125	136.	231037
231038	CALIFORNIA REFINING	TEST WELL #8	PERTH AMBOY CITY	403214	0741714	66.		6.	403214074171401			U	T	19510905	26-00126	113.	231038
231039	CALIFORNIA REFINING	TEST WELL #9	PERTH AMBOY CITY	403158	0741608	53.		6.	403158074160801			U	T	19510905	26-00123	114.	231039
231040	CALIFORNIA REFINING	TEST WELL #15	PERTH AMBOY CITY	403156	0741622	56.		6.	403156074162201			U	T	19510905	26-00257	139.5	231040
231041	MIDDLESEX COUNTY UTILITIE	MONITORING #1	SAYREVILLE BORO	402807	0742204	5.	38.	4.	402807074220401	211FRNG	48. 38.	U	D	19780200	28-10143	76.	231041
231042	MIDDLESEX COUNTY UTILITIE	MONITORING #2	SAYREVILLE BORO	402757	0742214	5.	57.	4.	402757074221401	211FRNG	47. 57.	U	D	19780200	28-10142	66.	231042
231043	DOW JONES CO	BACKUP-2	SOUTH BRUNSWICK TWP	402207	0743510	120	150	6	402207074351001	231LCKG	73 150	U	W	19790700	28-11137	150	231043
231044	MAGYAR SAVINGS & LOAN ASS	MAGYAR 1	SOUTH BRUNSWICK TWP	402630	0743206	130	185	10	402630074320601	231BRCK	50 185	C	W	19691104	28-06766	185	231044
231044		MAGYAR 1	SOUTH BRUNSWICK TWP	402634	0743238	130	185	6	402634074323801	231BRCK		C	W			185	231044
231045	NJ DEPT OF TRANSPORTATION	SAND HILLS 1	SOUTH BRUNSWICK TWP	402301	0743320	240	245	8	402301074332001	231LCKG	71.83 245	N	W	19390629	28-03473	245	231045
231046	CITIES SERVICE CO	15-1970	SOUTH BRUNSWICK TWP	402301	0743320	75	342	8	402301074332001	231LCKG	67 342	N	W	19700831	28-06846	342	231046
231046	COLUMBIAN CHEMICALS	15-1970	NORTH BRUNSWICK TWP	402602	0742910	110	85	10	402602074291001	231BRCK		N	W			342	231046
231047	OTKEN, JR. ED	OTKEN 1	NORTH BRUNSWICK TWP	402602	0742910	110	85	6	402602074291001	231BRCK	50 85	I	W	19810717	28-12317	85	231047
231047		OTKEN 1	NORTH BRUNSWICK TWP	402703	0742928	120	74	6	402703074292801	231BRCK		I	W			85	231047
231048	CARDONE, ANGELO C	CARDONE	NORTH BRUNSWICK TWP	402824	0742751	110	175	6	402824074275101	231BRCK	25 74	N	W	19640826	28-05084	74	231048
231049	PASTORE, JOSEPH	PASTORE 1	NORTH BRUNSWICK TWP	402721	0743031	100	234	6	402721074303101	231BRCK	50 175	I	W	19800921	28-11860	175	231049
231050	REVEY, EMERY J	SOD FARM WELL	NORTH BRUNSWICK TWP	402804	0742539	50	160	10	402804074253901	231BRCK	26 234	I	W	19630926	28-04791	234	231050
231051	RUTGERS UNIVERSITY	COOK FARM HOUSE	NORTH BRUNSWICK TWP	402804	0742539	50	160	6	402804074253901	231BRCK	53 160	M	W	19740227	25-17373	160	231051
231051		COOK FARM HOUSE	NORTH BRUNSWICK TWP	402806	0742839	90	125	10	402806074283901	231BRCK		M	W			160	231051
231052	GARY MANUFACTURING	INDUSTRIAL-1977	NEW BRUNSWICK CITY	402806	0742839	90	125	6	402806074283901	231BRCK	54 125	N	W	19771000	25-19397	125	231052
231052		INDUSTRIAL-1977	NEW BRUNSWICK CITY	403110	0742812	60	300	12	403110074281201	231BRCK		N	W			125	231052
231053	RUTGERS UNIVERSITY	RUTGERS GOLF COU	PISCATAWAY TWP	403110	0742812	60	300	8	403110074281201	231BRCK	55 300	I	W	19800630	25-21440	300	231053
231053		RUTGERS GOLF COU	PISCATAWAY TWP	403503	0741542	15	300	10	403503074154201	231BRCK		I	W			300	231053
231054	RISS INTERNATIONAL	ONE	WOODBRIDGE TWP	403503	0741542	15	300	6	403503074154201	231BRCK	50 300	C	W	19800124	26-04831	300	231053
231054	USA EASTERN	ONE	WOODBRIDGE TWP	403527	0742223	75	532	12	403527074222301	231BRCK		C	W			300	231054
231055	MIDDLESEX WATER COMPANY	TINGLEY LANE 5	EDISON TWP	402743	0742216	5.	53.	4.	402743074221601	211FRNG	40.18 532	P	W	19550705	25-04516	532	231055
231056	MIDDLESEX COUNTY UTILITIE	MONITORING #3	SAYREVILLE BORO	402887	0741586	0.			402887074158601		43. 53.	U	D	19780200	28-10141	77.	231056
231057	US ARMY CORPS OF ENGINEER	DH-26A		402704	0742139	25.	122.	8.75	402704074213901	211FRNG	112. 122.	U	T	19630600		35.5	231057
231058	US GEOLOGICAL SURVEY	HESS BROS #1		402704	0742139	25.	148.	8.75	402704074213902	211FRNG	138. 148.	U	D	19861029	28-17742-5	173.	231058
231059	US GEOLOGICAL SURVEY	HESS BROS #2		402704	0742139	25.	148.	4	402704074213902	211FRNG		U	D	19861120	28-17743-6	167.	231059
231059		HESS BROS #2		402802	0742022	40.	148.	8.75	402802074202201	211FRNG	138. 148.	U	D	19861207	25-28904-7	167.	231059
231060	US GEOLOGICAL SURVEY	MARSH AVE #1		403504	0743026	35	430	16	403504074302601	231BRCK	51 430	P	W	19451119	25-13397	251.	231060
231061	ELIZABETHTOWN WC	SEBRINGS MILL 8	MIDDLESEX BORO	403504	0743026	35	430	12	403504074302601	231BRCK		P	W			430	231061
231061		SEBRINGS MILL 8	MIDDLESEX BORO	402559	0743221	145	300	12	402559074322101	231BRCK	42.17 300	U	W	19620727	28-04424	430	231061
231062	ST AUGUSTINE CHURCH	SCHOOL 1	SOUTH BRUNSWICK TWP	402559	0743221	145	300	8	402559074322101	231BRCK		U	W			300	231062
231062		SCHOOL 1	SOUTH BRUNSWICK TWP	402026	0743730	95.75	443	13.33	402026074373001	231CKNN	422 443	N	W	19560700	28-01834	300	231062
231063	FMC RESEARCH LAB	1-WELLNITZ FARM	PLAINSBORO TWP	402130	0743601	100	325	6	402130074360101	231LCKG	72 325	C	W	19810515	28-04388	443	231063
231065	PRINCETON FOLDING BOX CO	SARSTEDT 1	SOUTH BRUNSWICK TWP	402130	0743601	100	325		402130074360101	231LCKG		C	W			326	231065
231065	SARSTEDT INC	SARSTEDT 1	SOUTH BRUNSWICK TWP	401819	0743402	90	90		401819074340201	211FRNG	80 90	N	W	19830125	28-14823	326	231065
231066	WHITE, STANLEY	DOMESTIC-1983	CRANBURY TWP	402008	0743251	100	70		402008074325101	211FRNG	64 70	N	W	19660716	28-06022	95	231066
231067	PROTINICK, MICHAEL	DOMESTIC 2-1966	CRANBURY TWP	401901	0743134	105	64		401901074313401	211DBG	123 128	N	W	19720700	28-07378	70	231067
231068	PROTINICK, JOHN	DOMESTIC 1-1972	CRANBURY TWP	401948	0742745	122.	285.		401948074274501	211FRNG	61 64	N	W	19630800	28-05335	129	231068
231069	BARCLAY FARMS	BARKLEY FARMS DO	CRANBURY TWP	403545	0742433	70	448	12	403545074243301	231BRCK	243. 285.	U	Z			66	231069
231070		APPLEGATE #6	SOUTH PLAINFIELD BORO	403536	0742228	80	360	12	403536074222801	231BRCK	94 448	P	W	19630000	23-11813		231070
231071	MIDDLESEX WATER COMPANY	PARK 25	EDISON TWP	403536	0742228	80	360	12	403536074222801	231BRCK	74 434	P	W	19300000	23-03970	448	231071
231072	MIDDLESEX WATER COMPANY	TINGLEY 2	EDISON TWP	402525	0743351	160	412	14	402525074335101	231BRCK		P	W	19541122		360	231072
231072		TINGLEY 2	SOUTH BRUNSWICK TWP	402525	0743351	160	412	10	402525074335101	231BRCK	39 412	Z	Z	19560428		360	231072
231073	KENDALL CONTINENTAL	KENDALL PARK 3	SOUTH BRUNSWICK TWP	402537	0743214	145	125.5	6	402537074321401	231BRCK		Z	Z			412	231073
231073	SOUTH BRUNSWICK TWP	KENDALL PARK 3	SOUTH BRUNSWICK TWP	402543	0743107	110	251	14	402543074310701	231BRCK	43.42 125.5	U	W	19330106	28-00757	125.5	231073
231074	ST AUGUSTINE CHURCH	CHURCH 1	NORTH BRUNSWICK TWP	402543	0743107	110	251	10	402543074310701	231BRCK	31.17 251	U	W	19341209	28-01429	251	231073
231075	ASHWILL CORPORATION	INDUSTRIAL 1	NORTH BRUNSWICK TWP	402630	0742959	110	68	6	402630074295902	231BRCK		U	W			251	231073
231075	STEARNS & FOSTER CO	INDUSTRIAL 1	NORTH BRUNSWICK TWP	402630	0742959	110	68	3	402630074295902	231BRCK	12 68	U	Z	19860327	29-16876	68	231073
231076	US GEOLOGICAL SURVEY	CORE HOLE A	NORTH BRUNSWICK TWP	402831	0742120	7	36	6.25	402831074212001	211FRNG		U	Z			68	231076
231076		CORE HOLE A	NORTH BRUNSWICK TWP	402721	0742210	12	78	6.25	402721074221001	211FRNG	46 36	U	D	19870227		68	231076
231077	US GEOLOGICAL SURVEY	JCP&L-SAY		403330	0742843	60	230	8	403330074284301	231BRCK	68 78	U	D	19870205		75	231077
231078	US GEOLOGICAL SURVEY	SAYER ST		403330	0742842	60	200	10	403330074284201	231BRCK	50 230	N	W	19830526	25-23677	84	231078
231079	CAPTIVE PLASTICS	BACKUP-1983	PISCATAWAY TWP	403330	0742842	60	200	8	403330074284201	231BRCK	50 200	J	W	19770000		230	231079
231080		1977-MAIN	PISCATAWAY TWP	402300	0743315	70	221	6	402300074331001	231LCKG		J	W			200	231080
231081	COLUMBIAN CHEMICALS	1-1948	SOUTH BRUNSWICK TWP	402630	0742939	110	409	8	402630074293901	231BRCK	23 221	N	W	19480000	48-00030	200	231080
231083	JOHNSON & JOHNSON CO	IRRIGATION-UNUSE	NORTH BRUNSWICK TWP	402048	0743553	80.9	5.1	0.5	402048074355301		20 409	U	W	19600000		221	231081
231084	PRINCETON UNIVERSITY	DOE WELL D1	PLAINSBORO TWP	402052	0743558	86.3	5.6		402052074355801	231BCKN	3.6 5.1	-	-	[illegible]	[illegible]	409	231083
231085	PRINCETON UNIVERSITY	DOE WELL D2	PLAINSBORO TWP	402052	0743558	86.3	17.0		402052074355802	231BCKN	4.5 5.8	U	D	19830716	28-16087	5.1	231084
231086	PRINCETON UNIVERSITY	DOE WELL D3	PLAINSBORO TWP	402051	0743555	84.4	19.		402051074355301	231BCKN	14.0 17.0	U	D	19861023	28-17693	[illegible]	[illegible]
231087	PRINCETON UNIVERSITY	DOE WELL D4	PLAINSBORO TWP	402050	0743553	81.5	18.0		402050074355301	231BCKN	16. 19.	U	D	19861030	28-17694	17.0	231086
231088	PRINCETON UNIVERSITY	DOE WELL D5	PLAINSBORO TWP	402039	0743401	77.6	6.2		402039074340101		15. 18.	U	D	19861030	28-17693	19.	231087
231089	PRINCETON UNIVERSITY	DOE WELL H1	PLAINSBORO TWP	402039	0743401	77.4	18.0		402039074340102	231BCKN	4.7 6.2	U	D	19830628	28-16082	18.0	231088
231090	PRINCETON UNIVERSITY	DOE WELL H1A	PLAINSBORO TWP	402040	0743402	80.5	5.2		402040074340201		13.0 18.	U	D	19861030	28-17690	6.2	231089
231091	PRINCETON UNIVERSITY	DOE WELL H2	PLAINSBORO TWP	402042	0743606	84.5	10.1		402042074360601		3.7 5.2	U	D	19830716	28-16083	18.0	231090
231092	PRINCETON UNIVERSITY	DOE WELL H3	PLAINSBORO TWP	402042	0743606	84.4	19.5		402042074360602	231BCKN	8.6 10.1	U	D	19830716	28-16084	5.2	231091
231093	PRINCETON UNIVERSITY	DOE WELL H3A	PLAINSBORO TWP	402047	0743609	88.1	9.7		402047074360901		16.5 19.5	U	D	19861030	28-17691	10.1	231092
231094	PRINCETON UNIVERSITY	DOE WELL H4	PLAINSBORO TWP	402047	0743609	88.3	16.2		402047074360902	231BCKN	8.2 9.7	U	D	19830716	28-16085	19.5	231093
231095	PRINCETON UNIVERSITY	DOE WELL H4A	PLAINSBORO TWP	402103	0743556	91.5	9.5		402103074355601		13.2 16.2	U	D	19861030	28-17692	9.7	231094
231096	PRINCETON UNIVERSITY	DOE WELL N1	PLAINSBORO TWP	402102	0743559	92.3	9.6		402102074355901		8.0 9.5	U	D	19830628	28-16090	16.2	231095
231097	PRINCETON UNIVERSITY	DOE WELL N2	PLAINSBORO TWP	402102	0743601	92.0	16.3		402102074360101	231BCKN	8.1 9.6	U	D	19830716	28-16091	9.5	231096
231098	PRINCETON UNIVERSITY	DOE WELL N3	PLAINSBORO TWP	402103	0743606	93.9	11.0		402103074360601	231BCKN	14.8 16.3	U	D	19830923	28-16092	9.6	231097
231099	PRINCETON UNIVERSITY	DOE WELL N4A	PLAINSBORO TWP	402103	0743606	93.9	6.0		402103074360602		8. 11.	U	D	19861030	28-17688	16.3	231098
231100	PRINCETON UNIVERSITY	DOE WELL N4B	PLAINSBORO TWP	402101	0743552	89.9	13.9		402101074355201		3. 6.	U	D	19861030	28-17689	11.0	231099
231101	PRINCETON UNIVERSITY	DOE WELL R2	PLAINSBORO TWP	402059	0743557	93.5	10.3		402059074355702		12.4 13.9	U	D	19830627	28-16088	12.0	231100
231102	PRINCETON UNIVERSITY	DOE WELL R3	PLAINSBORO TWP	402100	0743554	93.5	18.0		402100074355401	231BCKN	8.8 10.3	U	D	19830628	28-16089	13.9	231101
231103	PRINCETON UNIVERSITY	DOE WELL R4A	PLAINSBORO TWP	402100	0743554	93.5	15.		402100074355402		13.0 18.0	U	D	19860303	28-16093	10.3	231102
231104	PRINCETON UNIVERSITY	DOE WELL R4B	PLAINSBORO TWP	402100	0743553	92.7	30.0		402100074355301	231BCKN	12. 15.	U	D	19861030	28-17696	18.0	231103
231105	PRINCETON UNIVERSITY	DOE WELL R5A	PLAINSBORO TWP	402100	0743553	92.7	23.0		402100074355302		27.0 30.0	U	D	19860300	28-16094	15.	231104
231106	PRINCETON UNIVERSITY	DOE WELL R5B	PLAINSBORO TWP	402100	0743552	91.3	27.0		402100074355201	231BCKN	20. 23.0	U	D	19861030	28-17697	30.0	231105
231107	PRINCETON UNIVERSITY	DOE WELL R6	PLAINSBORO TWP	402101	0743549	86.3	28.0		402101074354901	231BCKN	24.0 27.0	U	D	19860300	28-16095	23.0	231106
231108	PRINCETON UNIVERSITY	DOE WELL R8A	PLAINSBORO TWP								25.0 28.0	U	D	19860300	28-16096	27.0	231107
																28.0	231108

UNIQUE ID	DA	LOCAL ID	MUNICIPALITY	LAT	LON	ALTITUD	DIAMETER	STATION ID	AQUIFER	SCREENED INTERVAL		W	S	DATE	PERMIT	DEPTH DRILLE	
231109	PRINCETON UNIVERSITY	DOE WELL R9B	PLAINSBORO TWP	402101	0743549	86.3	12.	402101074354902		9.0	12.0	U	D	19861030	28-17698	12.	231109
231110	PRINCETON UNIVERSITY	DOE WELL R9A	PLAINSBORO TWP	402101	0743548	85.4	42.0	402101074354801	231BCKN	39.0	42.0	U	D	19860303	28-16097	42.0	231110
231111	PRINCETON UNIVERSITY	DOE WELL R9E	PLAINSBORO TWP	402101	0743548	85.4	36.0	402101074354802		33.0	36.0	U	D	19861030	28-17699	36.0	231111
231112	PRINCETON UNIVERSITY	DOE WELL R10A	PLAINSBORO TWP	402101	0743547	85.6	31.0	402101074354701	231BCKN	28.0	31.0	U	D	19860307	28-16098	31.0	231112
231113	PRINCETON UNIVERSITY	DOE WELL R10B	PLAINSBORO TWP	402101	0743547	85.6	25.0	402101074354702		22.0	25.0	U	D	19861030	28-17687	25.0	231113
231114	PRINCETON UNIVERSITY	FORRESTAL WD 5	PLAINSBORO TWP	402053	0743619	103.8	250. 12.	402050074362001	231BCKN	45.5	250.	F	C	19581125		250.	231114
231114		FORRESTAL WD 5	PLAINSBORO TWP	402053	0743619	103.8	250. 8.	402050074362001	231BCKN			F	C			250.	231114
231115		FORRESTAL WD 2	PLAINSBORO TWP	402043	0743650	115.	297	402043074365001	231BCKN			U	U				231115
231116	PRINCETON UNIVERSITY	FORRESTAL WD 3	PLAINSBORO TWP	402045	0743648	115.	406.	402045074364801	231BCKN			U	U			406.	231116
231117	KINGSTON WATER CO	KINGSTON 1	SOUTH BRUNSWICK TWP	402206	0743711	60	280 10	402206074371101	231LCKG	40	280	P	W	19390000	48-00074	280	231117
231117	ELIZABETHTOWN WATER CO	KINGSTON 1	SOUTH BRUNSWICK TWP	402206	0743711	60	280	402206074371101	231LCKG			P	W			280	231117
231118	MCCRACKEN, ELIZABETH	DOMESTIC-1958	SOUTH BRUNSWICK TWP	402312	0743304	85	100 6	402312074330401	231LCKG	42	100	H	W	19380000		100	231118
231119	JOHNSON & JOHNSON CO	1-FIRE POND	NORTH BRUNSWICK TWP	402621	0743009	110	65 10	402621074300901	231BRCK	23.5	65	F	W	19611109	28-04269	65	231119
231119		1-FIRE POND	NORTH BRUNSWICK TWP	402621	0743009	110	65 6	402621074300901	231BRCK			F	W			65	231119
231120	US GEOLOGICAL SURVEY	SAMPLE A1	SAYREVILLE BORO	402744	0742215	1.1		402744074221501	211MRPA	9	11	U	Z	19871117		11	231120
231121	US GEOLOGICAL SURVEY	SAMPLE A2	SAYREVILLE BORO	402744	0742215	1.1		402744074221502	211MRPA	20	22	U	Z	19871117		22	231121
231122	US GEOLOGICAL SURVEY	SAMPLE A3	SAYREVILLE BORO	402744	0742215	1.1		402744074221503	211MRPA	30	32	U	Z	19871117		32	231122
231123	US GEOLOGICAL SURVEY	SAMPLE A4	SAYREVILLE BORO	402744	0742215	1.1		402744074221504	211FRNG	35	37	U	Z	19871118		39	231123
231124	US GEOLOGICAL SURVEY	SAMPLE B1	SAYREVILLE BORO	402748	0742218	3.5		402748074221801	211MRPA	10	12	U	Z	19871120		12	231124
231125	US GEOLOGICAL SURVEY	SAMPLE B2	SAYREVILLE BORO	402748	0742218	3.5		402748074221802	211MRPA	15	17	U	Z	19871120		17	231125
231126	US GEOLOGICAL SURVEY	SAMPLE B3	SAYREVILLE BORO	402748	0742218	3.5		402748074221803	211MRPA	20	22	U	Z	19871120		22	231126
231127	US GEOLOGICAL SURVEY	SAMPLE B4	SAYREVILLE BORO	402748	0742218	3.5		402748074221804	211MRPA	27.5	29.5	U	Z	19871120		29.5	231127
231128	US GEOLOGICAL SURVEY	SAMPLE B5	SAYREVILLE BORO	402748	0742218	3.5		402748074221805	211FRNG	45	47	U	Z	19871123		52	231128
231129	US GEOLOGICAL SURVEY	SAMPLE C1	SAYREVILLE BORO	402752	0742221	6.0		402752074222101	211MRPA	10	12	U	Z	19871118		12	231129
231130	US GEOLOGICAL SURVEY	SAMPLE C2	SAYREVILLE BORO	402752	0742221	6.0		402752074222102	211MRPA	15	17	U	Z	19871119		17	231130
231131	US GEOLOGICAL SURVEY	SAMPLE C3	SAYREVILLE BORO	402752	0742221	6.0		402752074222103	211MRPA	20	22	U	Z	19871119		22	231131
231132	US GEOLOGICAL SURVEY	SAMPLE C4	SAYREVILLE BORO	402752	0742221	6.0		402752074222104	211MRPA	23	27	U	Z	19871119		27	231132
231133	US GEOLOGICAL SURVEY	SAMPLE C5	SAYREVILLE BORO	402752	0742221	6.0		402752074222105	211MRPA	30	32	U	Z	19871119		32	231133
231134	US GEOLOGICAL SURVEY	SAMPLE C6	SAYREVILLE BORO	402752	0742221	6.0		402752074222106	211FRNG	40	42	U	Z	19871119		44	231134
231135	PERTH AMBOY WATER DEPARTM	WELL 93, MI-85	OLD BRIDGE TWP	402513	0742047	10	60.5	402513074204701	211ODBG	39.8	60.5	U	Z	19070000		60.5	231135
231136	PERTH AMBOY WATER DEPARTM	WELL 87, MI-93	OLD BRIDGE TWP	402513	0742033	5	57	402513074203301	211ODBG			U	Z	19070000		57	231136
231137	PERTH AMBOY WATER DEPARTM	WELL 96, MI-88	OLD BRIDGE TWP	402500	0742100	5	50	402500074210001	211ODBG			U	Z	19100000		50	231137
231138	PERTH AMBOY WATER DEPARTM	MI-86 DEEP HOM	OLD BRIDGE TWP	402500	0742100	5	96	402500074210002	211ODBG			U	Z			96	231138
231139	PERTH AMBOY WATER DEPARTM	WELL 100, MI-91	OLD BRIDGE TWP	402500	0742100	5	48	402500074210003	211ODBG			U	Z	19100000		48	231139
231140	PERTH AMBOY WATER DEPARTM	WELL 99, MI-90	OLD BRIDGE TWP	402500	0742100	5	50	402500074210004	211ODBG			U	Z	19100000		50	231140
231141	PERTH AMBOY WATER DEPARTM	WELL 109, MI-92	OLD BRIDGE TWP	402500	0742100	5	54	402500074210005	211ODBG			U	Z	19110000		54	231141
231142	US GEOLOGICAL SURVEY	WELL P9, MI-83	EAST BRUNSWICK TWP	402447	0742140	5	18	402447074214001	211ODBG			U	Z	19410000		18	231142
231143	US GEOLOGICAL SURVEY	WELL 28-A, MI-37	SAYREVILLE BORO	402740	0742220	5	57	402740074222001	211FRNG			U	Z	19370000		57	231143
231144	US GEOLOGICAL SURVEY	WELL 28-B, MI-38	SAYREVILLE BORO	402740	0742220	5	15	402740074222002	211FRNG			U	Z	19370000		15	231144
231145	US GEOLOGICAL SURVEY	WELL 28-C, MI-39	SAYREVILLE BORO	402740	0742220	5		402740074222003	211FRNG			U	Z	19370000			231145
231146	US GEOLOGICAL SURVEY	WELL 30, MI-58	SAYREVILLE BORO	402753	0742153	15	80	402753074215301	211FRNG			U	Z	19370000		80	231146
231147	US GEOLOGICAL SURVEY	WELL 34, MI-26	SAYREVILLE BORO	402740	0741753	15	115	402740074175301	211FRNG			U	Z	19410000		115	231147
231148	HERCULES POWDER CO	WELL 39, MI-64	SAYREVILLE BORO	402700	0742047	95	129	402700074204701	211FRNG			U	Z	19380000		129	231148
231149	SAYER & FISHER	WELL 1, MI-2	SAYREVILLE BORO	402820	0742127	20	80	402820074212701	211FRNG			U	Z	18830000		80	231149
231150	DUHERNAL WATER COMPANY	WELL 26-F, MI-41	SAYREVILLE BORO	402700	0742207	5	180	402700074220701	211FRNG			U	Z	18930000			231150
231151	GEORGE HELME COMPANY	WELL 3, MI-50	HELMETTA BORO	402233	0742527	25	38	402233074252701	211ODBG			U	Z	19480000			231151
231152	RARITAN COPPER WORKS	WELL 16, MI-17	PERTH AMBOY CITY	403033	0741647	5	135	403033074164701	211FRNG			U	Z	19260000			231152
231153	RARITAN COPPER WORKS	WELL 17, MI-19	PERTH AMBOY CITY	403033	0741647	5	145	403033074164702	211FRNG			U	Z				231153
231154	SETTLECOWSKI, TERRI	SETTLECOWSKI	OLD BRIDGE TWP	402222	0741739	70	137 4	402222074173901	211MRPAU	129	137	I	W	19850417	29-14373	137	231154
231155	PRINCETON UNIVERSITY	DOE WELL N5	PLAINSBORO TWP	402102	0743559	92	15.0 4.0	402102074355902	231BCKN	10	15	U	D	19880227	28-20293-3	16.7	231155
250001	ALLENHURST W D	AWD 4	ALLENHURST BORO	401401	0740025	17.00	570	401401074002501	211EGLS	525.00	565.00	P	W	19500713	29-00116		250001
250003	TOTTEN FARM	TOTTEN 1	ALLENTOWN BORO	401002	0743554	90.00	243 8.00	401002074355401	211MRPAU	210.00	243.00	I	W	19750286		243	250003
250004	ALLENTOWN W D	AWD 2	ALLENTOWN BORO	401047	0743527	77.00	262	401047074352701	211MRPAU	211.83	262.00	P	W	19751110	28-08915	267	250004
250005	ASBURY PARK W D	APWD 4	ASBURY PARK CITY	401346	0740034	8.30	580	401346074003401	211EGLS	540.00	580.00	U	Z	19630515	29-03486		250005
250005	MONMOUTH CON WC	APWD 4	ASBURY PARK CITY	401346	0740034	8.30	580	401346074003401	211EGLS			U	Z				250005
250006	ATLAN HIGH W D	AHWD 1	ATL. HIGHLANDS BORO	402437	0740236	20.00	573	402437074023601	211ODBG	517.00	573.00	P	W	19280914			250006
250006		AHWD 1	ATL. HIGHLANDS BORO	402437	0740236	20.00	573	402437074023601	211ODBG	536.00	556.00	P	W				250006
250006		AHWD 1	ATL. HIGHLANDS BORO	402437	0740236	20.00	573	402437074023601	211ODBG	566.00	582.00	P	W				250006
250007	JULIAN, J P	1951	ATL. HIGHLANDS BORO	402439	0740225	20.00	36.0	402439074022501	211MLRW	26.00	36.00	C	W	1951			250007
250008	ATLAN HIGH W D	AHWD 3	ATL. HIGHLANDS BORO	402441	0740233	15.00	572	402441074023301	211ODBG	547.00	572.00	U	Z	1946			250008
250009	ATLAN HIGH W D	AHWD 2	ATL. HIGHLANDS BORO	402441	0740234	15.00	200	402441074023401	211EGLS			P	W	1923			250009
250010	LEONARD, CHAS	LEONARD	ATL. HIGHLANDS BORO	402450	0740233	30.00	167	402450074023301	211EGLS			P	W				250010
250011	AVON WATER DEPT	AWD 2	AVON-BY-THE-SEA BORO	401136	0740120	22.00	501	401136074012001	211MLRW	419.00	501.00	P	W	19250404	19-00018		250011
250012	AVON WATER DEPT	AWD 3	AVON-BY-THE-SEA BORO	401137	0740121	29.00	1150	401137074012101	211ODBG	1078.00	1139.00	U	Z	19260917			250012
250012		AWD 3	AVON-BY-THE-SEA BORO	401137	0740121	29.00	1150	401137074012101	211ODBG	916.00	976.00	U	Z				250012
250013	AVON WATER DEPT	AWD 4	AVON-BY-THE-SEA BORO	401137	0740121	29.00	1165	401137074012102	211MRPAU	1105.00	1165.00	P	W	19740504	29-07461		250013
250014	AVON WATER DEPT	AWD 1	AVON-BY-THE-SEA BORO	401138	0740125	28.00	441	401138074012501	211MLRW	424.00	504.00	P	W	19250404	49-00017		250014
250015	BELMAR BORO WD	BWD 7 SUB	BELMAR BORO	401036	0740146	20.00	648	401036074014601	211EGLS			P	W		49-00022		250015
250016	BELMAR BORO WD	BWD 3 ELEC(12)	BELMAR BORO	401037	0740148	20.00	594	401037074014801	211EGLS	563.00	594.00	P	W	19491001	29-00045		250016
250017	BELMAR BORO WD	BWD 4 SUB	BELMAR BORO	401038	0740146	20.00	524	401038074014601	211EGLS			P	W		49-00019		250017
250018	BELMAR BORO WD	10 12 ELECT)	BELMAR BORO	401038	0740146	20.00	581	401038074014602	211EGLS			P	W	1938	49-00023		250018
250019	BELMAR BORO WD	BWD 1 SUB	BELMAR BORO	401038	0740147	20.00	600	401038074014701	211EGLS			P	W	1900			250019
250020	BELMAR BORO WD	BWD 6 SUB	BELMAR BORO	401039	0740141	20.00		401039074014101	211EGLS			P	W		49-00021		250020
250021	BELMAR BORO WD	BWD 3 SUB	BELMAR BORO	401039	0740144	20.00	318	401039074014401	211EGLS			U	Z	1900			250021
250022	BELMAR BORO WD	BWD 1 ELEC	BELMAR BORO	401040	0740145	20.00	545	401040074014501	211EGLS			P	W	1900			250022
250023	BELMAR BORO WD	BWD 13	BELMAR BORO	401040	0740146	20.00	605	401039074014701	211EGLS	555.00	605.00	P	W	19730522	29-06956		250023
250024	BELMAR BORO WD	BWD 5 SUB	BELMAR BORO	401042	0740143	20.00	515	401042074014301	211EGLS			P	W	1900	49-00024		250024
250025	BELMAR BORO WD	BWD 8 SUB	BELMAR BORO	401042	0740150	20.00	640	401042074015001	211EGLS			U	Z				250025
250026	BELMAR BORO WD	BWD 4 ELEC(11)	BELMAR BORO	401102	0740045	15.00	679	401102074004501	211EGLS	601.00	671.00	P	W	19410205	49-00024		250026
250027	MONMOUTH CON WC	OCEAN GROVE 20	BRADLEY BEACH BORO	401223	0740104	20.00	600	401223074010401	211EGLS	570.00	600.00	U	Z	19490706			250027
250028	BRIELLE WATER D	BWD 3	BRIELLE BORO	400623	0740429	90.00	820	400623074042901	211EGLS	770.00	820.00	P	W	1967	29-05292		250028
250029	BRIELLE WATER D	BWD 1	BRIELLE BORO	400644	0740344	35.00	150	400644074034401	121CKXD	130.00	150.00	P	W	19360328			250029
250030	BRIELLE WATER D	BWD 2	BRIELLE BORO	400645	0740343	33.00	750	400645074034501	211EGLS	690.00	750.00	P	W	19500216	29-00069		250030
250031	MAD EARLE	ARMY AREA 96	COLTS NECK TWP	401520	0740658	120.00	90.0	401520074065801	125WMCN			U	U				250031
250032	MAD EARLE	S 373	COLTS NECK TWP	401541	0741108	115.00		401541074110801				N	W				250032
250033	MAD EARLE	MAD EARLE 1	COLTS NECK TWP	401556	0740915	126.00	810	401556074091501	211ODBG	773.00	810.00	P	W	1944			250033
250034	MAD EARLE	MAD EARLE 2(P)	COLTS NECK TWP	401558	0740908	135.00	836	401558074090801	211ODBG	810.00	836.00	P	W	1944			250034
250035	SCATUORCHIO, MR	SCATUORCHIO 1	COLTS NECK TWP	401600	0741204	140.00	250	401600074120401	211EGLS	238.00	250.00	N	W	19500818			250035
250036	HOMINY HIL FARM	1 MERCER,H D	COLTS NECK TWP	401604	0741144	109.00	686	401604074114301	211ODBG			B	W	19421013			250036
250037	HOMINY H GOLF C	GLF CLB 2-1963	COLTS NECK TWP	401607	0741209	137.00	706	401608074120901	211ODBG	686.00	706.00	I	W	19630910	29-04068		250037

REFERENCE NO. 11

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual

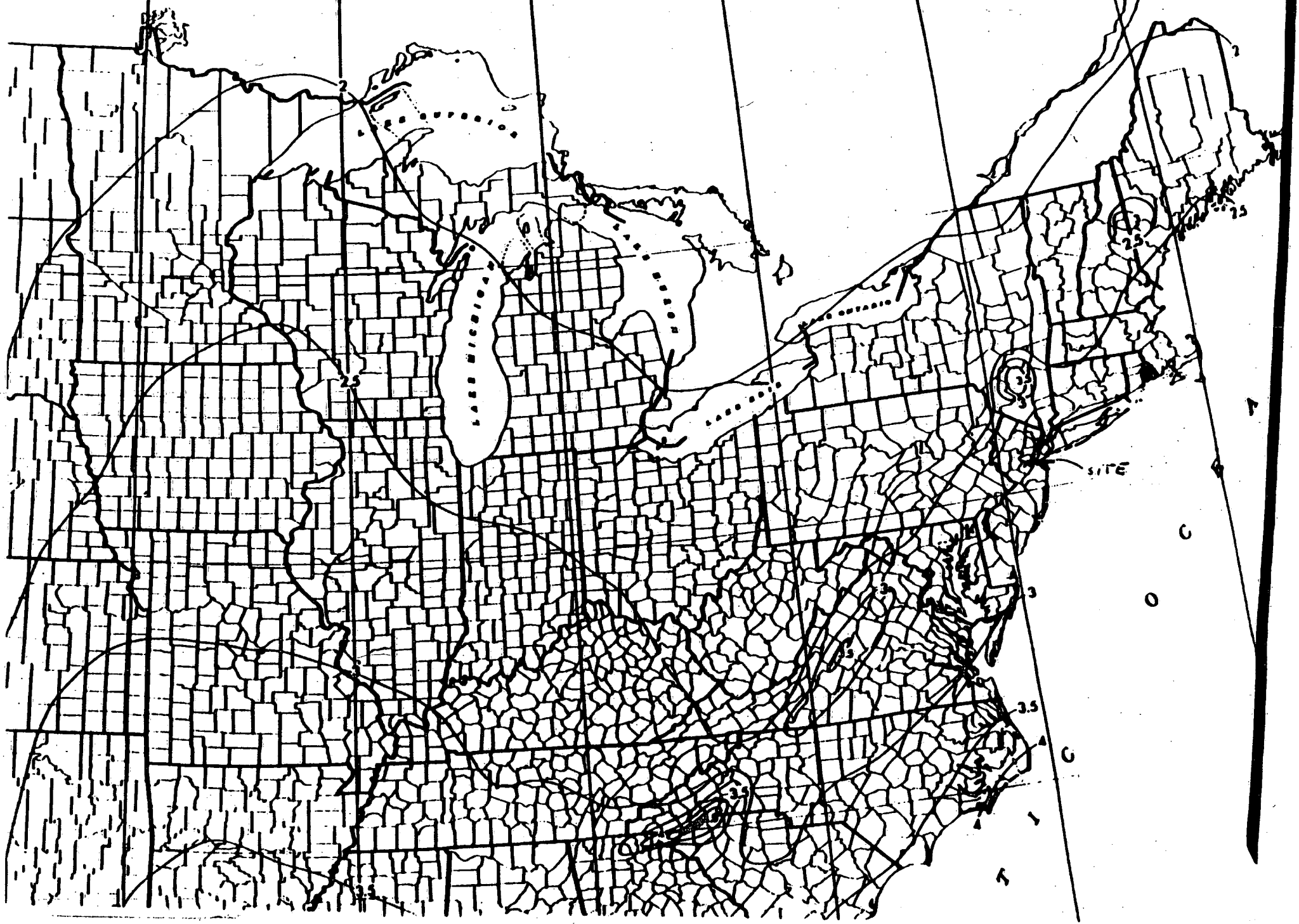
(HW-10)

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

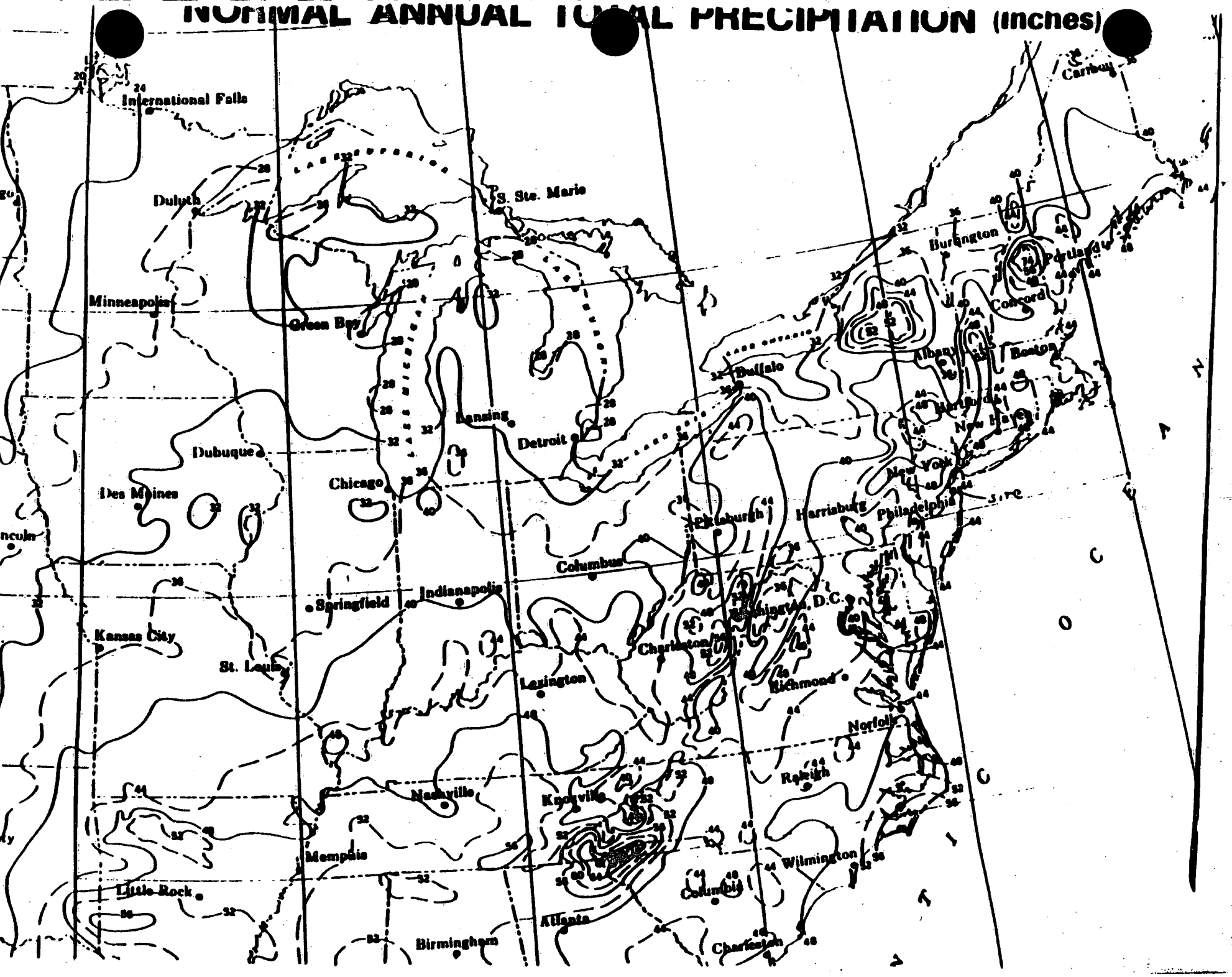
United States
Environmental Protection
Agency

1984

1 YEAR 24-HOUR RAINFALL (inches)



NORMAL ANNUAL TOTAL PRECIPITATION (Inches)



MEAN ANNUAL LAKE EVAPORATION
(In Inches)

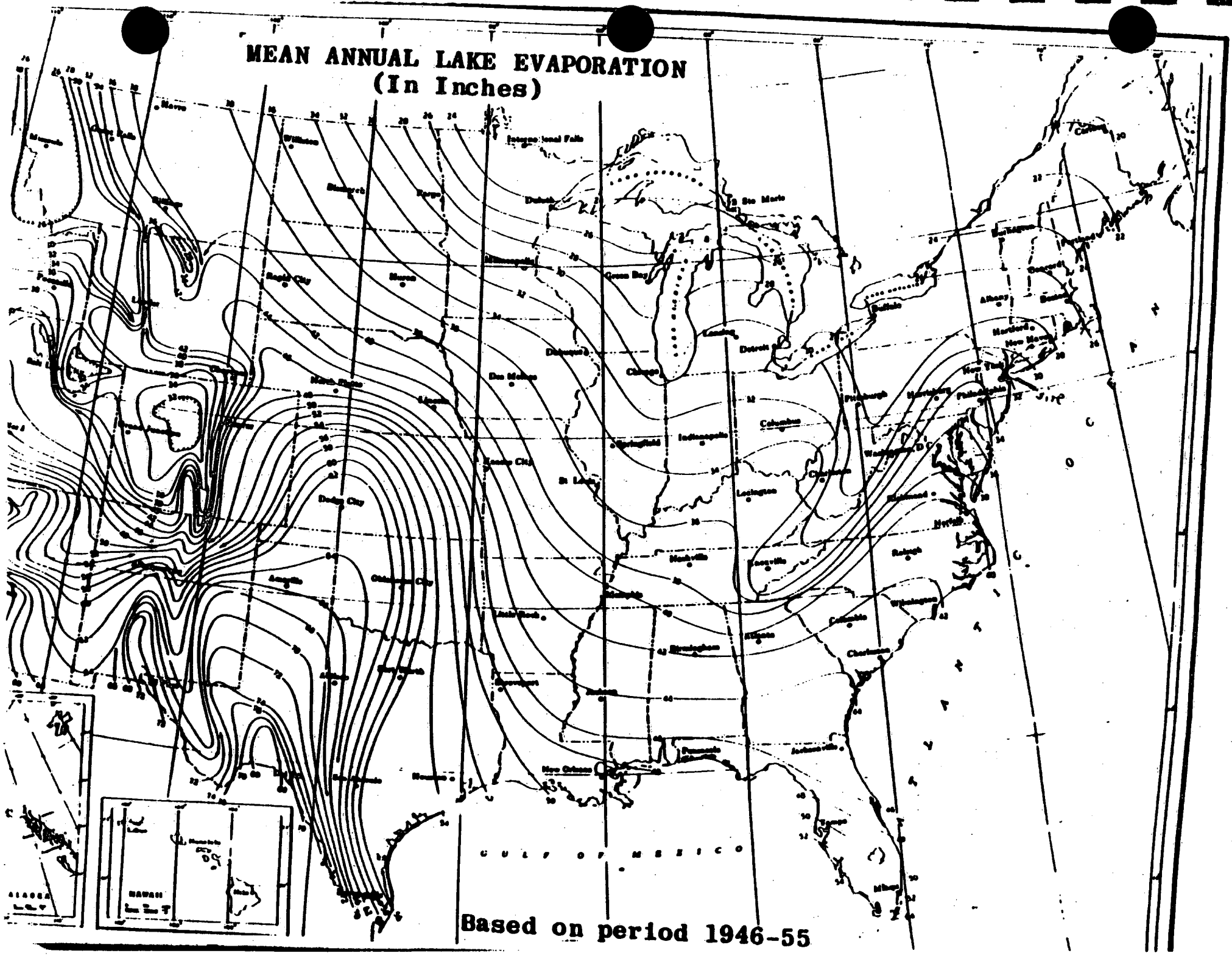


TABLE 2

PERMEABILITY OF GEOLOGIC MATERIALS*

Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	$10^{-5} - 10^{-7}$ cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	$10^{-3} - 10^{-5}$ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	$>10^{-3}$ cm/sec	3

*Derived from:

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWiest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979

REFERENCE NO. 12

MIDDLESEX COUNTY 208 AREA-WIDE

WASTE TREATMENT MANAGEMENT PLANNING

TASK 8 - GROUND-WATER ANALYSIS

A. DESCRIPTION OF GROUND-WATER SYSTEM
B. GROUND-WATER POLLUTION SOURCES

prepared by

Geraghty & Miller, Inc.
Consulting Ground-Water Geologists and Hydrologists
44 Sintsink Drive East
Port Washington, New York 11050

November 1976

This report was prepared under a subcontract of the Middlesex 208 Joint Venture in cooperation with the Middlesex County Planning Board. The work was supported by funds provided to the Middlesex County Board of Chosen Freeholders by the U. S. Environmental Protection Agency, Region II, under EPA Grant No. P002102-01-0 as authorized by the Federal Water Pollution Control Act Amendments of 1972, PL 92-500.

APPENDIX A

PLATE DESCRIPTIONS

EXPLANATION OF ABBREVIATIONS AND SYMBOLS ON GEOLOGIC MAPS AND HYDROGEOLOGIC CROSS SECTIONS

GEOLOGIC DATA

Q QUATERNARY		Qal	ALLUVIUM	
		Qe	WINDBLOWN DEPOSITS	
		Qsd	STRATIFIED DRIFT	
		Qtm	TERMINAL MORAINE	
		Qt	TILL	
	Qp	Qcm	CAPE MAY FM.	PLEISTOCENE
		Qps	PENSAUKEN FM.	
		Qsw	SWAMP DEPOSITS	
K CRETACEOUS		Kmw	MOUNT LAUREL AND WENONAH SANDS	
		Kmt	MARSHALLTOWN FM.	
		Ket	ENGLISHTOWN SAND	
		Kwb	WOODBURY CLAY	
		Kmv	MERCHANTVILLE CLAY	
		Km	MAGOTHY FM. (including Kas - AMBOY STONEWARE CLAY)	
	Kru	Kob	OLD BRIDGE SAND	RARITAN FM.
		Ksa	SOUTH AMBOY FIRE CLAY	
		Ks	SAYREVILLE SAND	
		Kwc	WOODBRIDGE CLAY	
		Kf	FARRINGTON SAND	
		Krf	RARITAN FIRE CLAY	
TRIASSIC	Ꞧn	Ꞧb	BRUNSWICK SHALE	NEWARK GROUP
		Ꞧl	LOCKATONG FM.	
		Ꞧs	STOCKTON FM.	
		Ꞧdb	DIABASE	
		Ꞧbs	BASALT	
pЄ PRECAMBRIAN			GNEISS AND SCHIST	

HYDROLOGIC DATA

SA 129	WELL INVENTORY NUMBER
SWL 32	STATIC WATER LEVEL, FEET
PWL 55	PUMPING WATER LEVEL, FEET
Q 865	PUMPING RATE, GPM (GALLONS PER MINUTE)
SC 38	SPECIFIC CAPACITY, GPM/FT OF DRAWDOWN
	SCREENED INTERVAL
	PROJECTED WELL
	CONFINING BED
	MAJOR AQUIFER
	POTENTIOMETRIC SURFACE OF FARRINGTON SAND (1973)
	DIRECTION OF GROUND-WATER FLOW

Plate I. PRE-QUATERNARY GEOLOGY AND LINES OF SECTIONS

This map shows the outcrop pattern of the geologic units with the Quaternary age formations removed and the lines of six hydrogeologic sections constructed to illustrate subsurface conditions. During Quaternary time much of the study area was blanketed with glacial deposits and stream alluvium, obscuring the stratigraphic relationships of the underlying formations. On this map the Quaternary (Pleistocene and Recent deposits) are not shown so that the areal distribution and stratigraphic relations of the underlying formations can be better understood.

The study area lies within two major physiographic provinces, the Triassic Lowland and the Coastal Plain. The heavy dashed line that roughly bisects the county and runs from southwest to northeast along Devils Brook, Farrington Lake, and Route I north of the Raritan River is known as the Fall Line and represents the northern and landward limit of the Coastal Plain physiographic province. The region north of this line is part of the Triassic Lowland province.

The Triassic Lowland is underlain by bedrock of Triassic age called the Newark Group. Included in this group are the Brunswick, Lockatong, and Stockton Formations consisting of shale, argillite, and sandstone, respectively. Also included within this group are igneous basalt flows of the Watchung Mountains and diabase intrusions.

The Newark Group continues southeast of the Fall Line, but is covered by a thick sequence of Coastal Plain deposits and so is not shown on the map. The Coastal Plain is underlain by a southeasterly dipping and thickening sequence of unconsolidated sand, gravel, clay,

and silt of Cretaceous age. Each Coastal Plain formation shown has a southwest to northeast strike and dips to the southeast. Moving downdip across the Coastal Plain from the Fall Line, the outcrop belts of successively younger geologic formations are crossed. This means that as each formation becomes overlain by younger and younger formations, it lies at progressively greater depths below land surface. For instance, the Old Bridge Sand (part of the Raritan Formation) crops out near Duhernal Lake, but about four miles to the southeast near the county border, the Old Bridge Sand is overlain by four younger formations.

Northwest of the Fall Line are three outliers of undifferentiated Raritan sediments which probably represent erosional remnants of a formerly more extensive Coastal Plain.

The geologic units shown on Plate 1 were taken from the State of New Jersey's Bureau of Geology and Topography geologic overlay sheets 25, 26, 28 and 29, Special Report 8 [1] and the Geologic Map of New Jersey. [8]

Plates 2-7. HYDROGEOLOGIC CROSS SECTIONS I-VI.

Plates 2 through 7 (cross sections I through VI) show the subsurface geologic units beneath the Coastal Plain and their stratigraphic relationships. Sections I through V are roughly parallel to the dip of the unconsolidated formations and run from northwest to southeast while Section VI runs along the strike of the formations from southwest to northeast. The elevation of the bedrock floor deepens in a southeasterly direction with a corresponding thickening of the sequence of unconsolidated sediments that rest on this surface. As the outcrop areas of successively younger formations are crossed in a downdip direction, the upper surface of each formation lies at a progressively greater depth. The dip of the unconsolidated formations and bedrock appear considerably steeper than they actually are because the scales chosen for the sections result in a vertical exaggeration of 40 times. Formations of Precambrian, Triassic, Upper Cretaceous, Pleistocene, and Recent age existing in the study area are represented on the cross sections.

There are three major types of bedrock shown on the cross sections which are from oldest to youngest: Precambrian crystalline rocks, the Newark Group of Triassic age, and a diabase sill or dike also of Triassic age. These rocks are relatively unimportant in the coastal region as sources of ground water because they are usually overlain by more prolific aquifers. However, in the Triassic Lowland area to the northwest, the Newark Group is a major source of ground water.

Resting directly on the bedrock in the Coastal Plain region is the Raritan Formation of

Upper Cretaceous age (Sections I through VI). The basal member of this formation, the Raritan Fire Clay, is a weathering product of the Triassic shale and as such is confined mainly to areas underlain by shale, although some material may have washed onto the Precambrian surface to the southeast. Undoubtedly much of the bedrock surface is covered by a clayey material which is a weathering product of the underlying rock. Above the fire clay are the two most productive aquifers in the study area, the Farrington and Old Bridge Sands. As can be seen on the cross sections, both these units are continuous beneath the Coastal Plain southeast of their respective outcrop areas. The Woodbridge Clay is also persistent throughout the subsurface in the Coastal Plain and is the main confining unit separating the Farrington and Old Bridge Sands. The Sayreville Sand and South Amboy Fire Clay, which occur stratigraphically between the Woodbridge Clay and Old Bridge Sand are, however, thin and discontinuous and are absent in Sections III and V. Only in Section I do the two formations extend for any considerable distance. Due to limited occurrence and fine-grained nature, the Sayreville Sand has a very small potential for water-supply development. Northeast of Spotswood the individual members of the Raritan Formation, in particular, the Farrington and Old Bridge Sands and Woodbridge Clay, are distinguishable in well logs as they retain their outcrop type lithologies. However, in the Jamesburg area the Woodbridge Clay appears to contain a larger proportion of sand and the clay is lenticular rather than a continuous sheet. This makes separation of the Farrington and Old Bridge into distinct units somewhat difficult. For continuity, the names Farrington and Old Bridge are extended to the county line, although further southwest this distinction may no longer be possible.

T' Amboy Stonsware Clay, which previously had been considered to be the upper unit of the Raritan Formation, is now interpreted as being the basal member of the Magothy Formation [9] and is so indicated on the cross sections. The formations above the Raritan (i.e. Magothy, Merchantville, etc.) have little importance as major water producers in the study area. The Magothy, Merchantville, Woodbury, and Marshalltown Formations are chiefly clays, silts, and fine-grained sands with little capacity to transmit or yield useable quantities of water. The Englishtown Formation and Wenonah Sand are relatively permeable units, but have limited occurrence in Middlesex County. The Pleistocene units are quite permeable in places, but their limited thickness in most areas prevents them from being major aquifers.

As indicated by Sections I and II, a buried diabase ridge lies beneath the Raritan River between Sayreville and Perth Amboy. This ridge stood as a topographic high during Upper Cretaceous time and had a strong effect on Farrington sedimentation. In many places along the axis of the ridge the sand was either thinly deposited or not deposited at all. In addition, during Pleistocene time when sea level was at a lower elevation than at present, the Raritan River cut a channel nearly or completely to bedrock along its lower reaches. This erosional activity removed the thinly deposited Farrington Sand in places and replaced it with Pleistocene and Recent deposits. The net result is that in many places beneath the Raritan River there is no Farrington Sand, and at other spots (Sections I and II), the sand is only a thin deposit on the diabase ridge. In the area of the Washington Canal on Cross Section II, it can be seen that the Woodbridge Clay was either not deposited or later eroded and replaced by Pleistocene de-

posits which directly overlie the Farrington Sand. Originally, relatively impermeable Recent deposits blanketed the Pleistocene materials, but dredging of the Washington Canal exposed the permeable Pleistocene materials directly to the brackish water in the canal and provided an easy route for brackish water to eventually move downward into the Farrington Sand. In the southern part of the study area near Jamesburg and especially along the Millstone River at the county border, erosional and depositional activity during Pleistocene time has removed considerable amounts of the Upper Cretaceous material, replacing it with Pleistocene sand, gravel and clay deposits up to 100 feet thick.

On each of the sections, the potentiometric surface of the Farrington Sand is shown. The depressions in the Farrington water-level surface on Sections I through III are the result of heavy pumping from the sand in this area. Section VI shows the area southwest of Jamesburg to be only slightly affected by this pumping, and Sections IV and V support this conclusion. On Section VI, northeast of Spotswood, two major depressions in the water-level surface of the Farrington Sand can be seen between Runyon and South Amboy again corresponding to areas of heavy pumping.

The hydrogeologic sections were based on geologists' logs, interpretations of drillers' logs, geologic maps, and geophysical logs obtained from the files and reports of the New Jersey Bureau of Topography and Geology, and the U. S. Geological Survey. The potentiometric surface of the Farrington Sand was determined from data supplied by the U. S. Geological Survey and represents field measurements taken in the fall of 1973. Topography was taken from the U. S. Geological Survey's 7 1/2 minute quadrangles. Many well logs exist in the Coastal Plain region of Middlesex County, but more deep test wells are needed in the southeastern part of the study area to better define the geology.