

80 LISTER AVENUE

NEWARK, N.J.

1/27/84

**SUMMARY SHEET**

**80 LISTER AVENUE**

**NEWARK, N.J.**

## SUMMARY OF SAMPLING RESULTS

80 LISTER AVE  
NEWARK, NEW JERSEY

SAMPLING PHASE	#Of Data Points	Wipe Samples >10 ng	ND	BD: <25
On Site	9		0	
✓ Habitability	13		10	
Joseph Street and SCA Chemical Services	3		0	
Thomasset Colors, Inc.	2		2	
✓ Public Contact Areas - Phase I	68		58	
Transportation Routes - Phase I	169		50	
Passaic River Sediment	35		14	
Selected Grid - Phase I	152		72	
Passaic River Crabs and Fish	16		1	2
✓ Hayes Park East TAT Vacuum Bags	4		2	
✓ Public Contact Areas - Phase II	18		11	
Lockwood Street TAT Vacuuming Refuse	4		2	
Transportation Routes - Phase II	44		21	
① 17 Foundry Street	4		2	
Hayes Park After TAT Clean-up	4		3	
① Transportation Routes Post Remedial Action	34		3	
① Transportation Routes - Phase III	29		13	
① Industrial Areas	10		4	
① Selected Grid - Phase II	19		5	
/ Brady Iron and Metals	10		0	
① Parkway Soil	34		10	
① Ferry Street	18		12	
Brady Iron and Metals Perimeter	53	1	3	
Hildermann Property	18		2	
① New Jersey Transit	15		13	
Brady Iron and Metals Remedial Grid and Wipe	50	12	0	
TOTAL (Not Including Tissue Analysis)	819		312	

MARY OF SAMPLING RESULTS

80 LISTER AVE  
NEWARK, NEW JERSEY

ID	ppt (parts per trillion)			ppb (parts per billion)			
	<25	≥25 & <50	>50	<1	≥1 & <3	≥3 & <5	>5
0				0	0	0	9
0				1	1	0	1
0				0	3	0	0
2				0	0	0	0
8 ←				4	(2)	(4)	0 → phase I
10				59	36	10	14
14				15	4	1	1
72				66	11	2	1
1	2	3	10				
2				2	0	0	0
11 ←				5	(1)	0	(1) - phase II
2				1	0	0	0
21				14	7	2	0
2				2	0	0	0
3				1	0	0	0
3				17	10	2	2
13				10	2	2	2
4				5	1	0	0
5				5	5	2	2
0				0	1	0	9
10				4	11	5	4
12				3	3	0	0
3				4	5	4	37
2				11	2	0	3
13				2	0	0	0
0				3	3	2	30
312				234	102	36	116

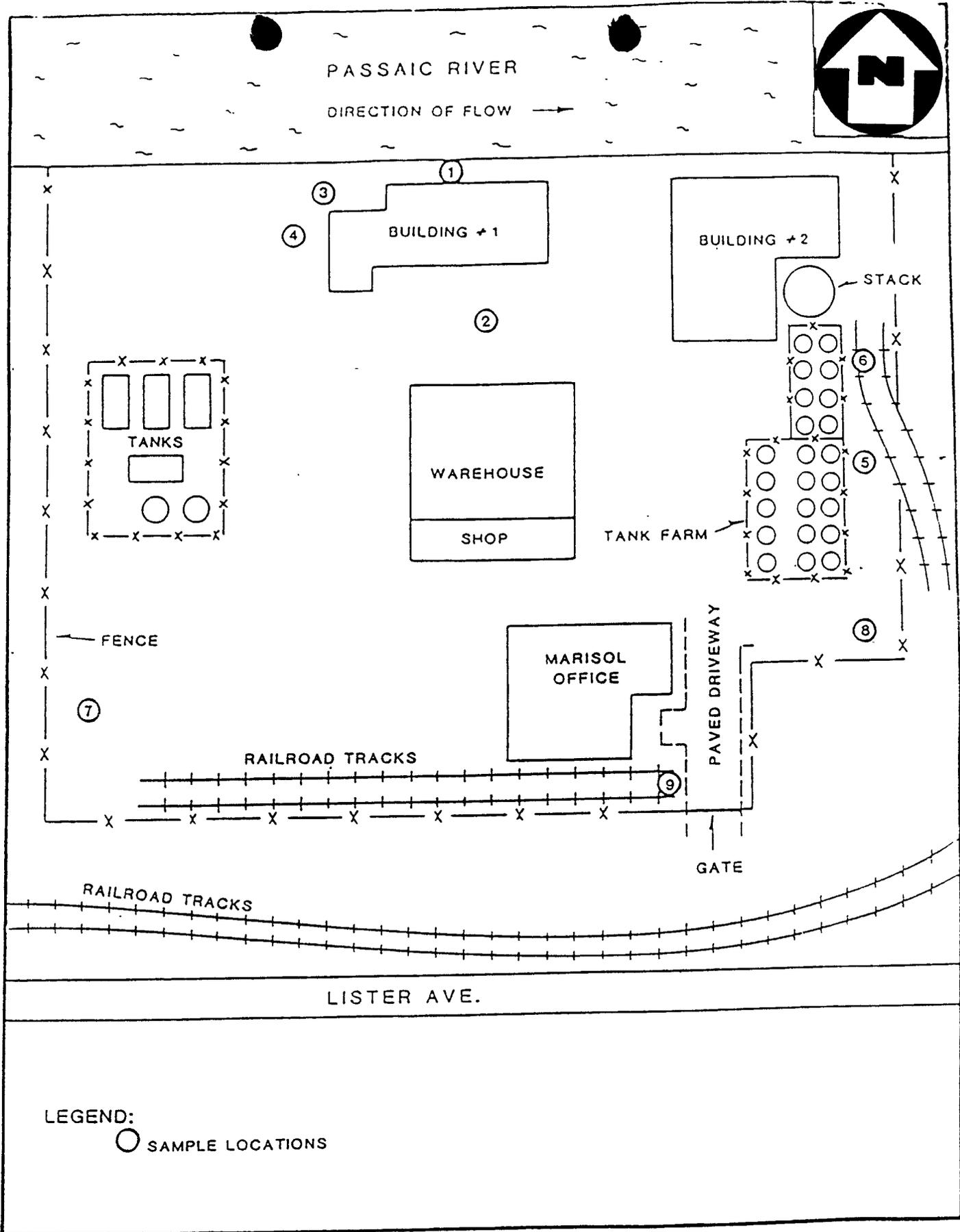
**ON SITE**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
ON SITE  
5/27/83**

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**ON SITE**  
**5/27/83**



DIAMOND SHAMROCK  
NEWARK, N.J.  
SAMPLE LOCATION MAP  
(NOT TO SCALE)



**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**ON SITE**  
**5/27/83**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1	Adjacent to Bulkhead along Passaic River at north end of site	69	
2	South side of building #1	NG	100
3	Adjacent to Bulkhead along Passaic River at north end of site	305	560 1,000 duplicate
4	Under storage tank at NW corner of site	<del>NG</del>	>51,000
5	Near railroad siding, western edge of site	427	530
6	Adjacent to storm drain near tall stack, NE corner	<del>NG</del>	680
7	Adjacent to railroad tracks, SW entrance	68	
8	Adjacent to railroad tracks, SE entrance	88	100
9	Adjacent to railroad tracks, southern gate	60	

## NOTES:

(a) 9 samples were collected.

(b) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
ON SITE  
5/27/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1	Adjacent to Bulkhead along Passaic River at north end of site	69	
2	South side of building #1	NG	100
3	Adjacent to Bulkhead along Passaic River at north end of site	305	560 1,000 duplicate
4	Under storage tank at NW corner of site	NG	> 51,000
5	Near railroad siding, western edge of site	427	530
6	Adjacent to storm drain near tall stack, NE corner	NG	680
7	Adjacent to railroad tracks, SW entrance	68	
8	Adjacent to railroad tracks SE entrance	88	100
9	Adjacent to railroad tracks, southern gate	60	
10	Known Blank	ND	
10N	Matrix Spike of Sample 10	1.1	

ND - Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**HABITABILITY**

**80 LISTER AVENUE**

**NEWARK, N.J.**

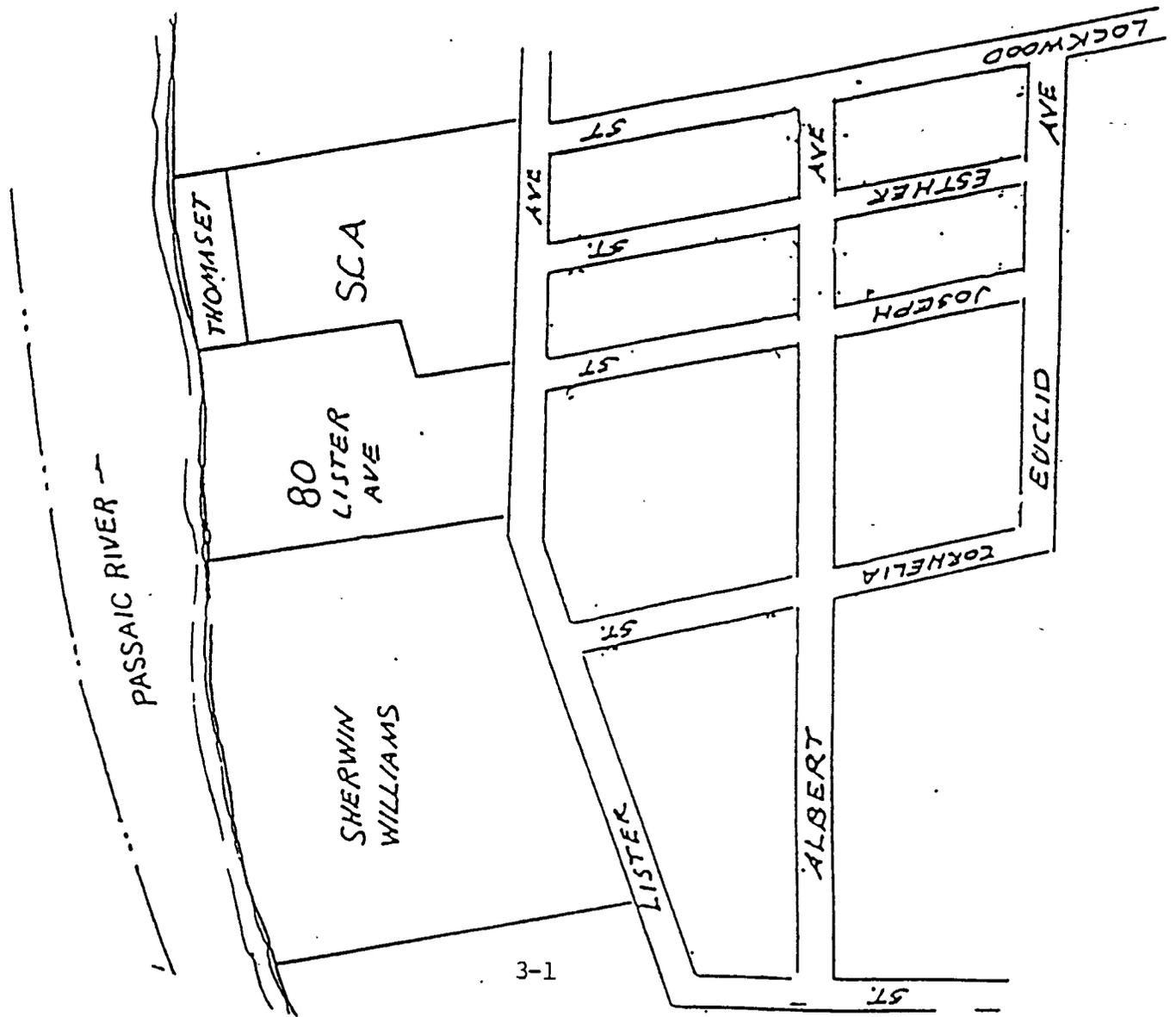
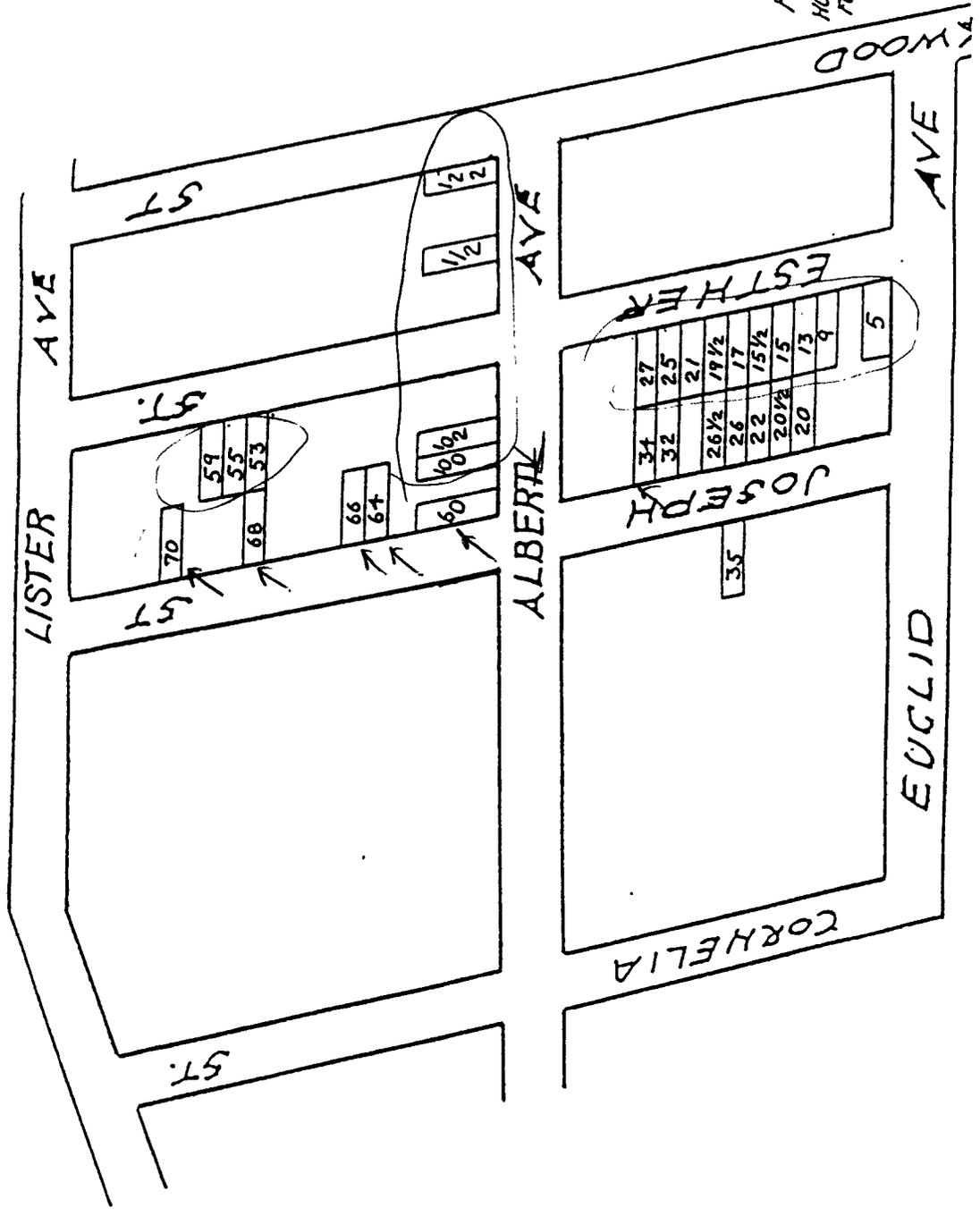


FIGURE # 3-1  
 LOCATION OF STUDY  
 AREA

FIGURE 3-2  
HOUSE #S SAMPLED  
FOR VACUUM  
CONTENTS



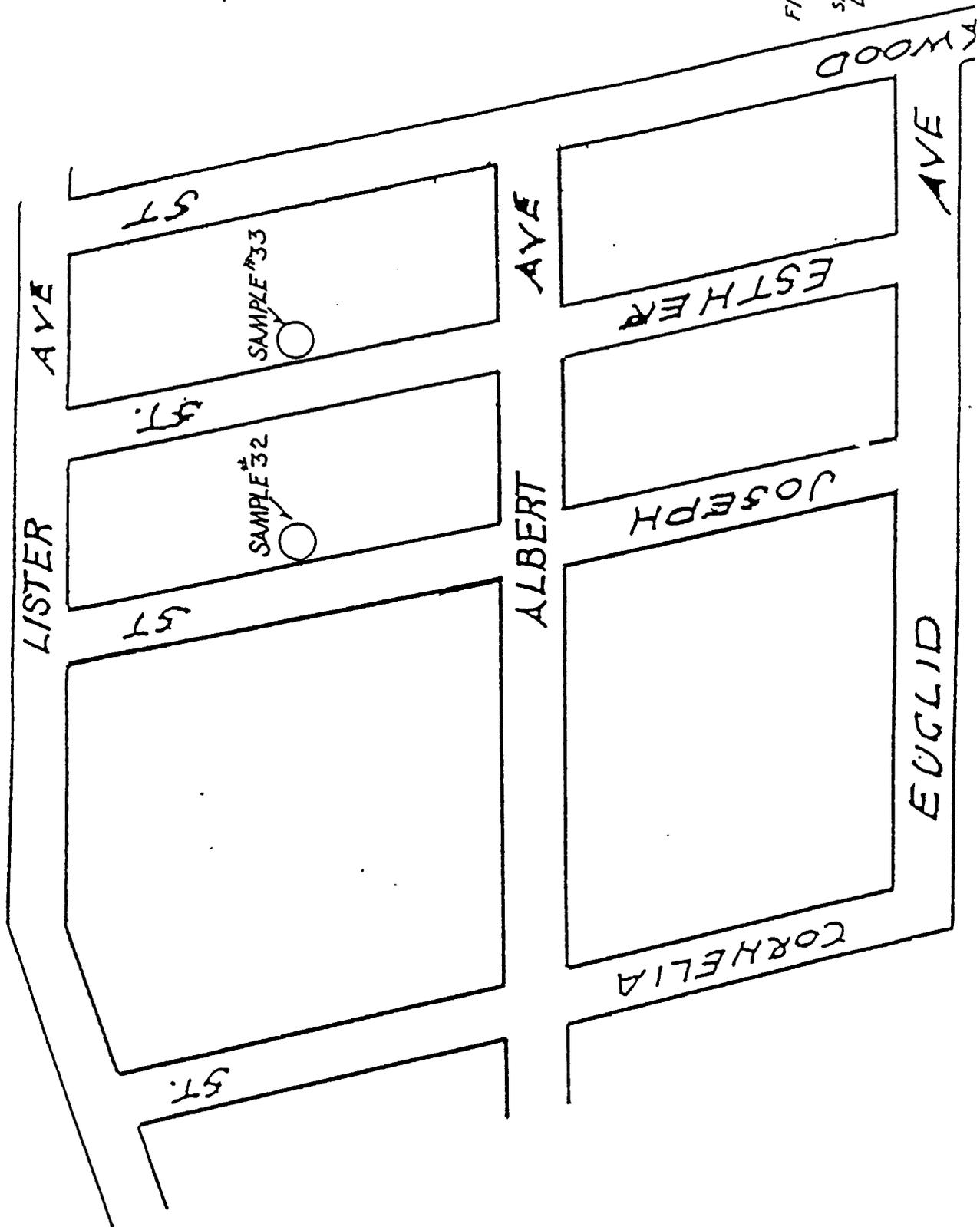
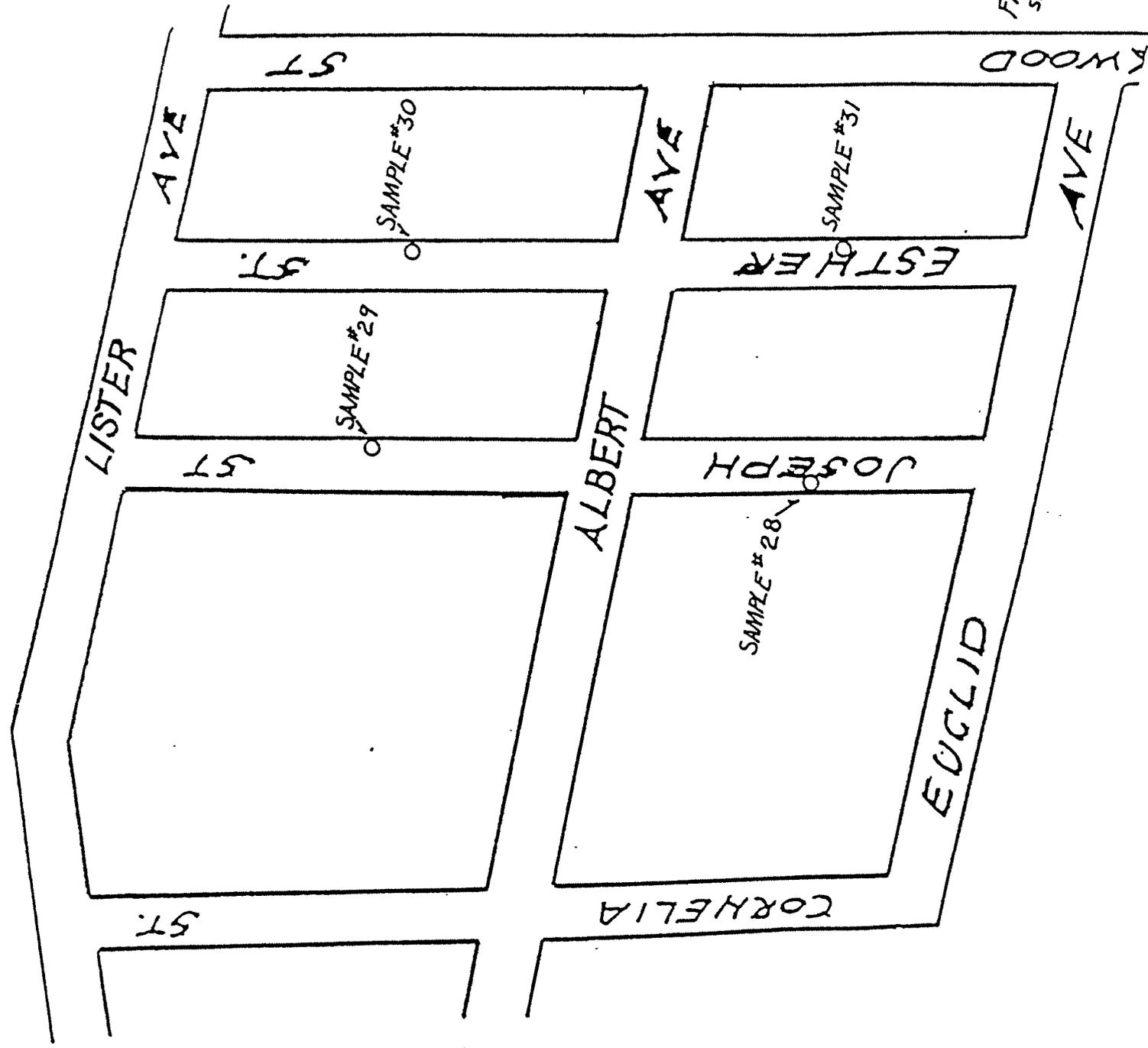


FIGURE # 3-3  
SOIL  
SAMPLE  
LOCATIONS

FIGURE # 3-4  
STREET SWEEPING  
LOCATIONS



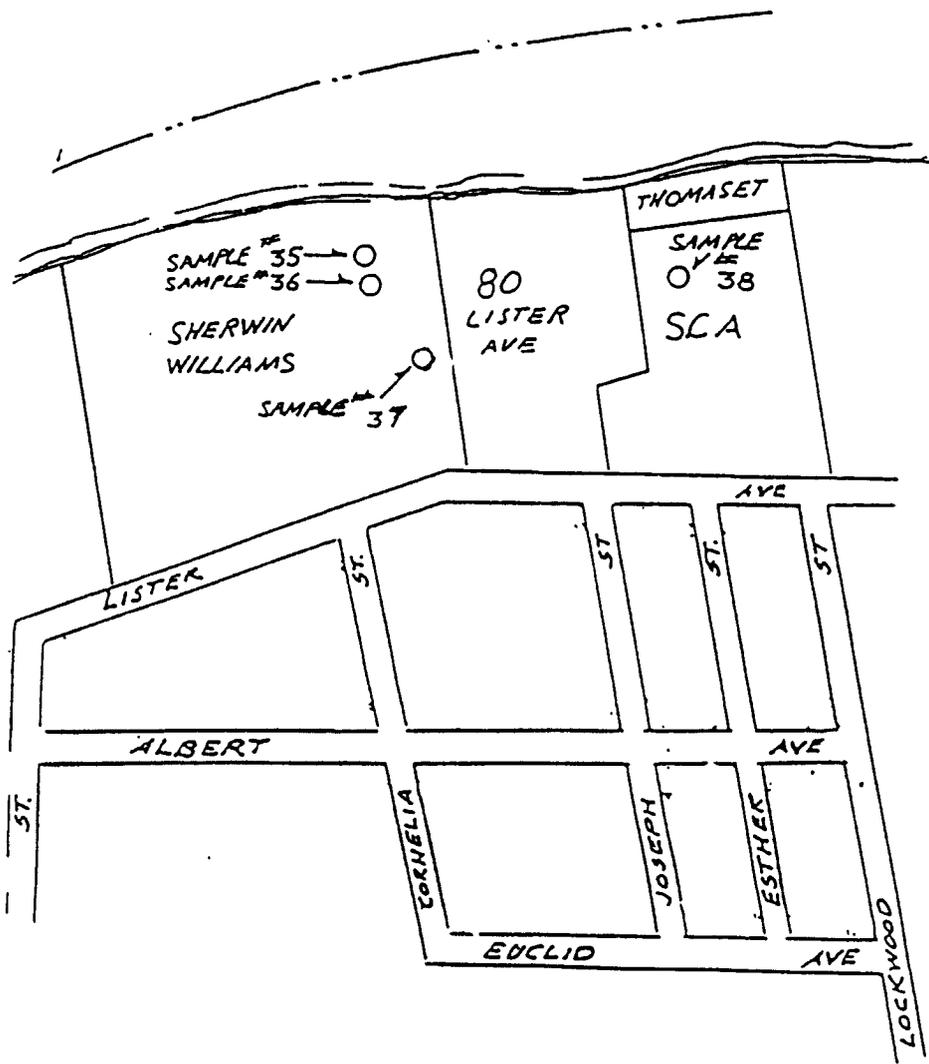


FIGURE # 3-5  
 SAMPLING LOCATIONS  
 FOR AIR CONDITIONER  
 FILTERS AND DUST  
 MASKS

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
HABITABILITY  
6/3/83**

**TABLE I**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**HABITABILITY**  
**6/3/83**

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
> 26	13 Esther	Defrancis & Deary	Vacuum bag	1.1	0.26 0.20 duplicate ND (CAL) ND duplicate (CAL)
32	Joseph between Albert and Lister	---	Soil Sample	5.8	5.0 5.3 duplicate 4.9 (CAL) 5.2 duplicate (CAL)
38	SCA	---	Air conditioner filter	1.2	

## NOTES:

- (a) 28 samples were collected.
- (b) 10 samples had no detection of TCDD.
- (c) 15 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) (CAL) = Sample analyzed by California Analytical Laboratories.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**HABITABILITY**  
**6/3/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
HABITABILITY  
6/3/83

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
11	53 Esther	Trechel	Vacuum bag	NG	1
12	100 Albert	Opanowitz	Vacuum bag	ND	
13	102 Albert	Podins	Vacuum bag	ND	ND duplicate
14	20 1/2 Joseph	Dembrosky	Vacuum bag	ND	
15	20 Joseph	Decregcenzo	Vacuum bag	NG	
16	11 Esther	Josco	Vacuum bag	NG	
17	64 Joseph	Macalravy	Vacuum bag	NG	
18	35 Joseph	B&B Foods	Vacuum bag	ND	
19	15 Esther	Hudak	Vacuum bag	ND	
20	112 Albert 2nd Floor	Cleveland	Vacuum bag	NG	
21	122 Albert 2nd Floor	Huryk	Vacuum bag	NG	
22	33 Esther	Lukas	Vacuum bag	ND	5
23	27 Esther	Rudzinski	Vacuum bag	ND	ND duplicate 6
24	15 1/2 Esther	Shramowat	Vacuum bag	ND	7
25	25 Esther	Dombroski	Vacuum bag	NG	
26	13 Esther	Defrancis & Deary	Vacuum bag	NG	0.26 0.20 duplicate ND (CAL) ND duplicate (CAL)

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(CAL) = Sample analyzed by California Analytical Laboratories.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
HABITABILITY  
6/3/83

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
27	9 Esther	Szymoniak	Vacuum bag	NG	
28	Joseph between Euclid & Albert	--	Street sweeping	NG	
29	Joseph between Albert & Lister	--	Street sweeping	NG	
30	Esther between Albert & Lister	--	Street sweeping	NG	
31	Esther between Euclid & Albert	--	Street sweeping	NG	
32	Joseph between Albert & Lister	--	Soil sample	5.8	5.0 5.3 duplicate 4.9 (CAL) 5.2 duplicate (CAL)
33	Esther between Albert & Lister	--	Soil sample	NG	
34	122 Albert 1st Floor	Huryk	Vacuum bag	NG	
35	Sherwin Williams 223-2A	--	Air conditioner filter	NG	
36	Sherwin Williams 22-1A	--	Air conditioner filter	ND	
37	Sherwin Williams	--	Dust mask	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(CAL) = Sample analyzed by California Analytical Laboratories.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
HABITABILITY  
6/3/83

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
38	SCA	--	Air conditioner filter	1.2	
39	23 Washington Place	--	Vacuum blank	ND	
40	EPA Raritan Center	--	Soil blank	ND	
41	Woodbridge Avenue	--	Street sweeping blank	ND	

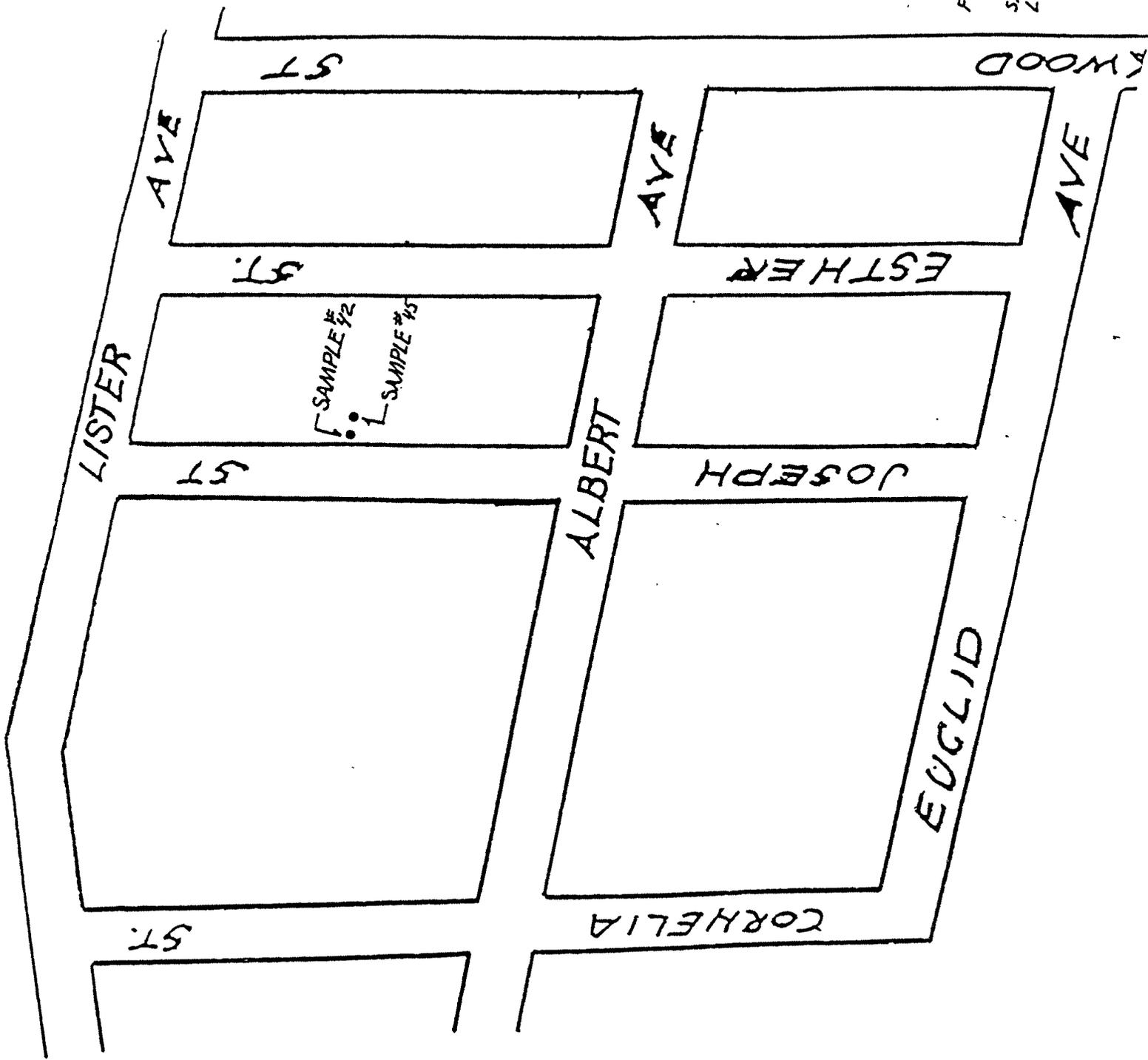
ND = Not Detected

**JOSEPH STREET AND  
SCA CHEMICAL SERVICES**

**80 LISTER AVENUE**

**NEWARK, N.J.**

FIGURE # 4-1  
SOIL  
SAMPLE  
LOCATIONS



4-1

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
JOSEPH STREET AND SCA CHEMICAL SERVICES  
6/7/83**

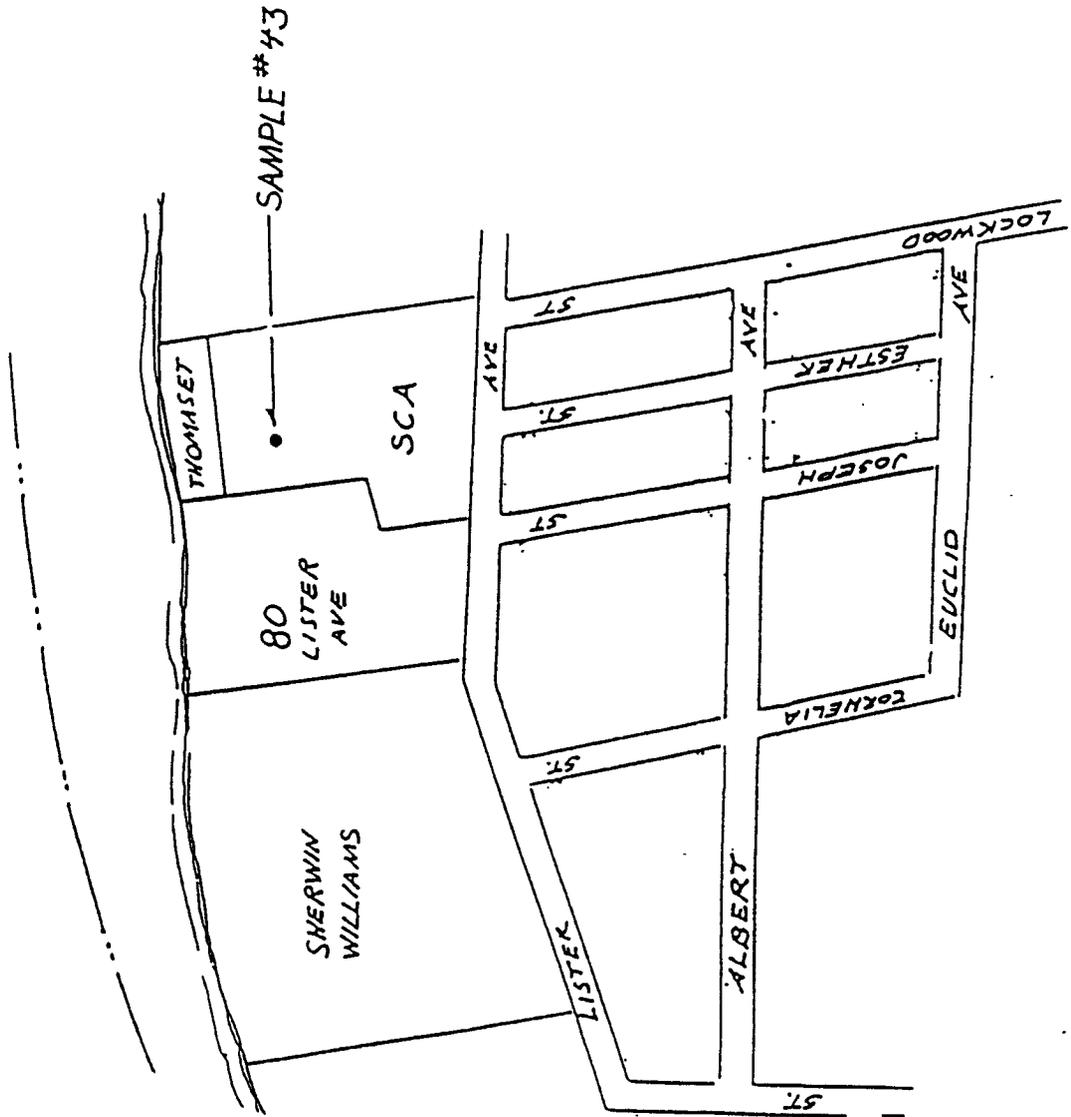


FIGURE #4-2  
 SAMPLING LOCATION  
 FOR AIR CONDITIONER

TABLE 1  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 JOSEPH STREET AND SCA CHEMICAL SERVICES  
 6/7/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
42	Joseph St., between Albert and Lister (Sample 32 resampled)	Soil	2.8	
43	SCA Chemical Services (Sample 38 resampled)	Dust from Air Conditioning Unit	1.1	
45	Joseph St., between Albert and Lister; four inches east of sample #42	Soil	2.9	

NOTES:

(a) 3 samples were collected.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**JOSEPH STREET AND SCA CHEMICAL SERVICES**  
**6/7/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
JOSEPH STREET AND SCA CHEMICAL SERVICES  
6/7/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
42	Joseph St., between Albert and Lister	Soil	2.8	
43	SCA Chemical Services	Dust from Air Conditioning Unit	1.1	
44	Unknown Blank	Soil	ND	
45	Joseph St., between Albert and Lister; four inches east of sample #42	Soil	2.9	

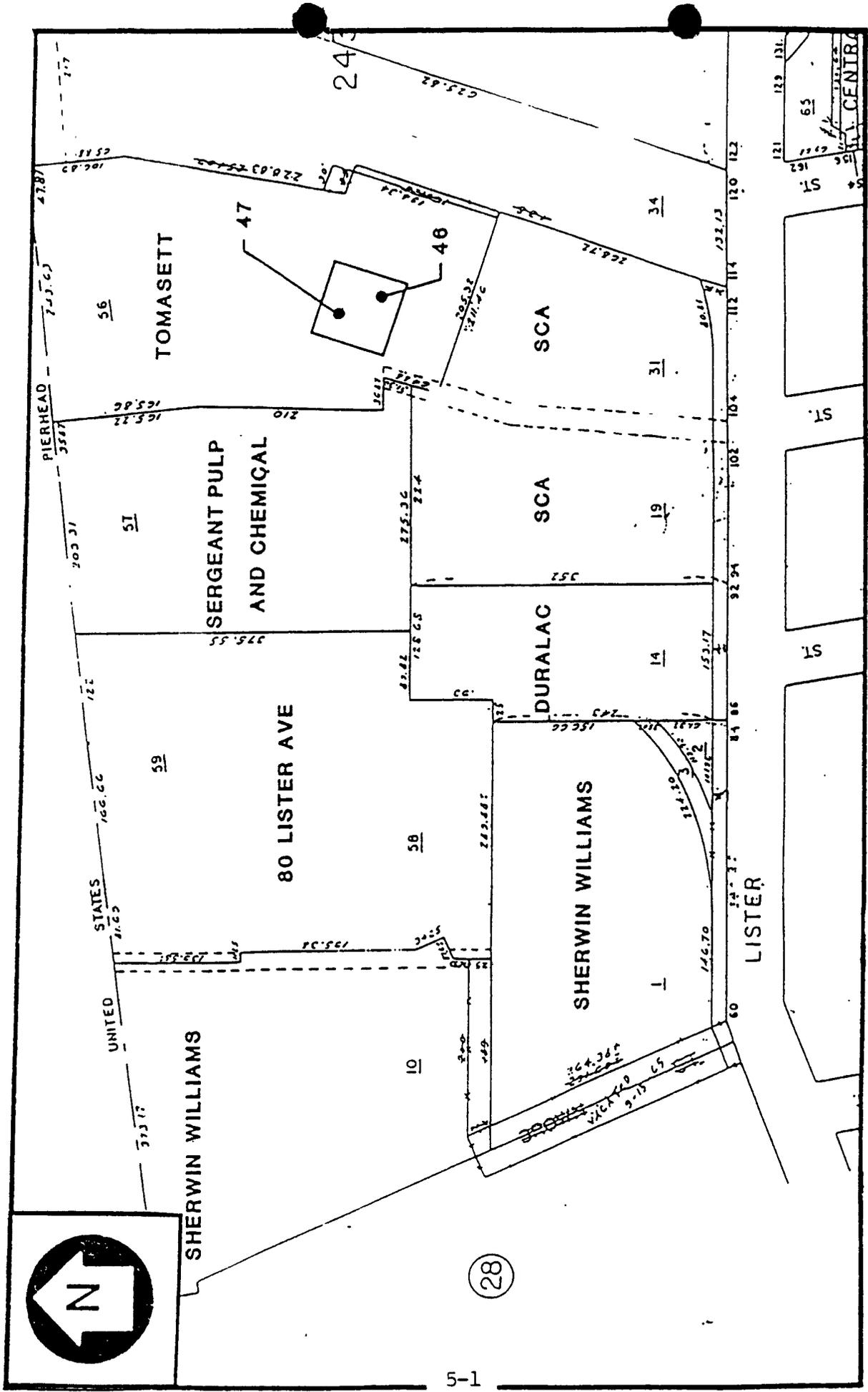
ND = Not Detected

**THOMASSET COLORS INC.**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
THOMASSET COLORS INC.  
6/8/83**



5-1

SAMPLING LOCATION FOR INTAKE VENTS

SAMPLE LOCATION MAP

FIGURE 5-1



TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
THOMASSET COLORS, INC.  
6/8/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat

No samples with concentrations 1 ppb or greater.

NOTES:

- (a) 2 samples were collected.
- (b) 2 samples had no detection of TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**THOMASSET COLORS INC.**  
**6/8/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
THOMASSET COLORS, INC.  
6/8/83

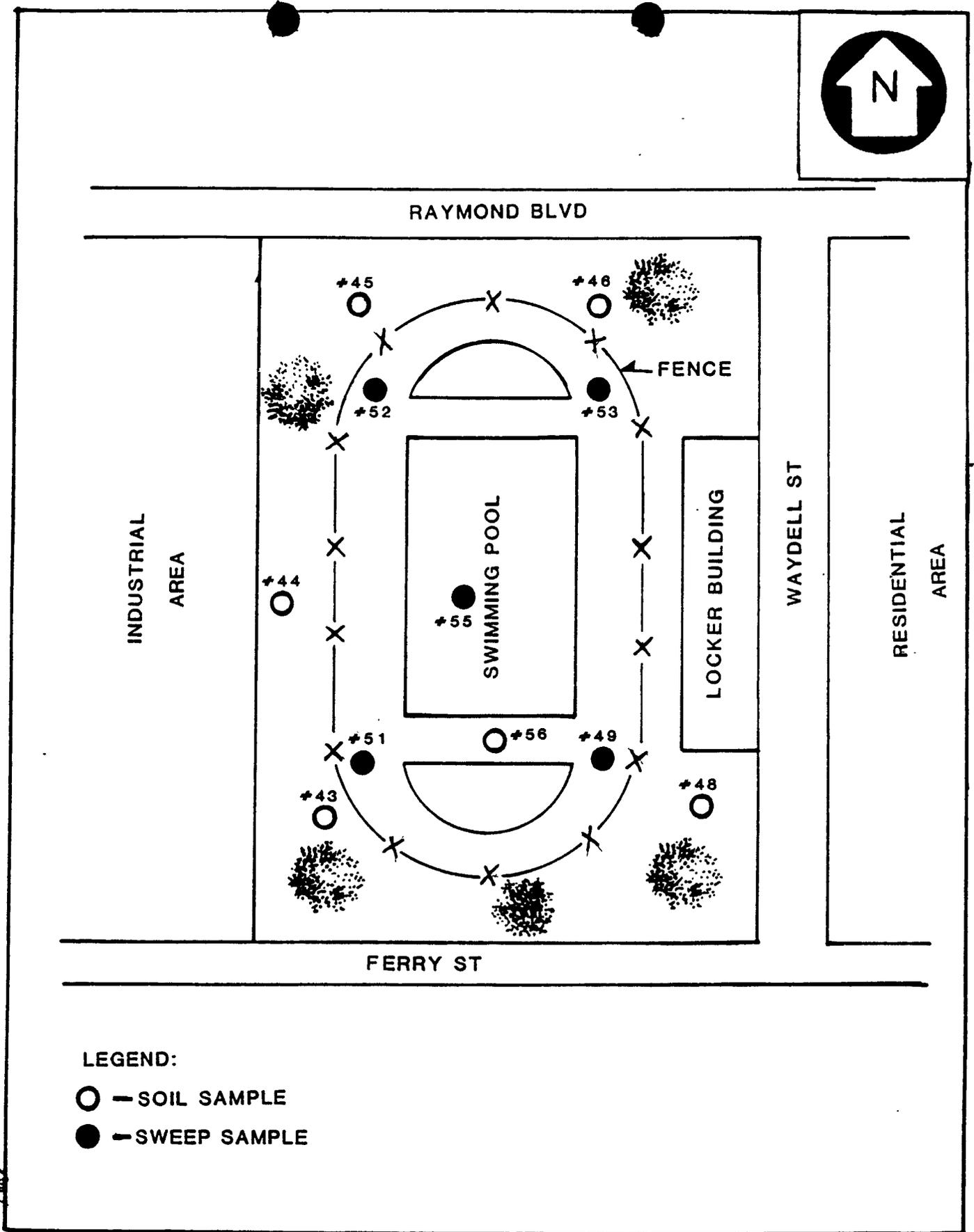
SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
46	Thomasset Colors, Inc.	Air intake filters (2) from the process drier	ND	
47	Thomasset Colors, Inc.	Air intake filter (1) from the process drier	ND	

ND = Not Detected

**PUBLIC CONTACT AREAS  
PHASE I**

**80 LISTER AVENUE**

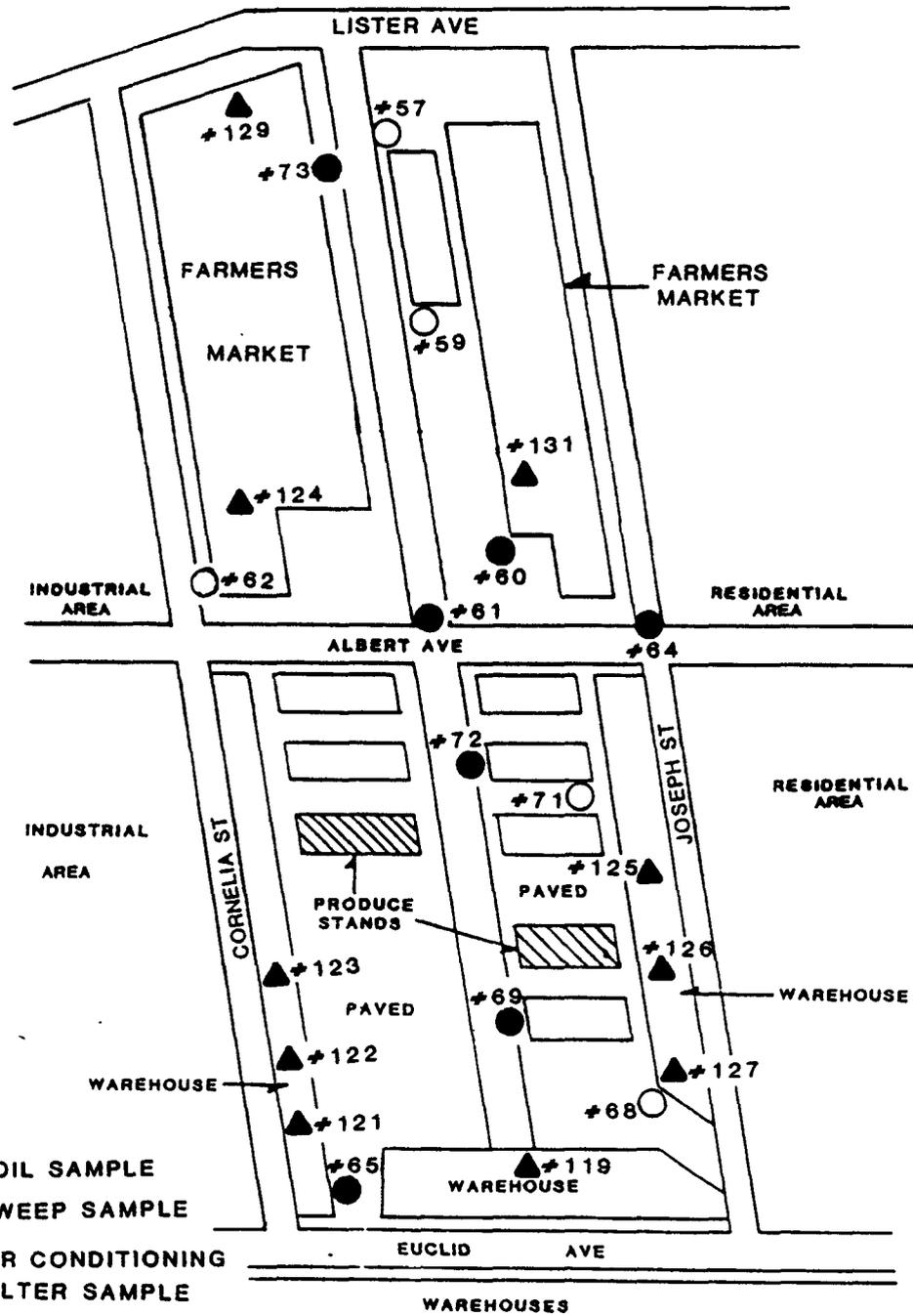
**NEWARK, N.J.**



SAMPLE LOCATIONS

FIGURE 6-1

HAYES PARK EAST



SAMPLE LOCATIONS  
NEWARK REGIONAL FARMERS MARKET

FIGURE 6-2



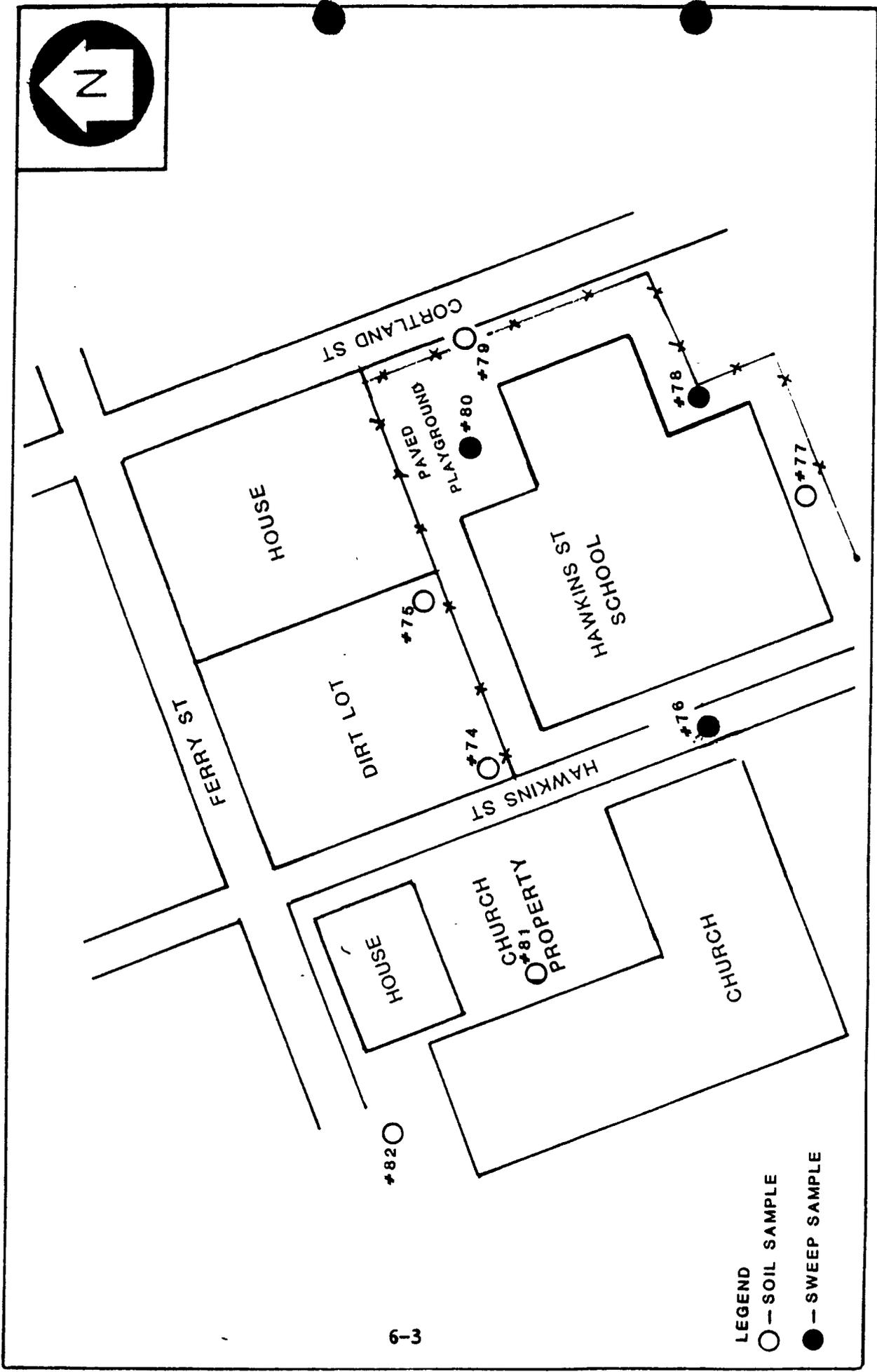
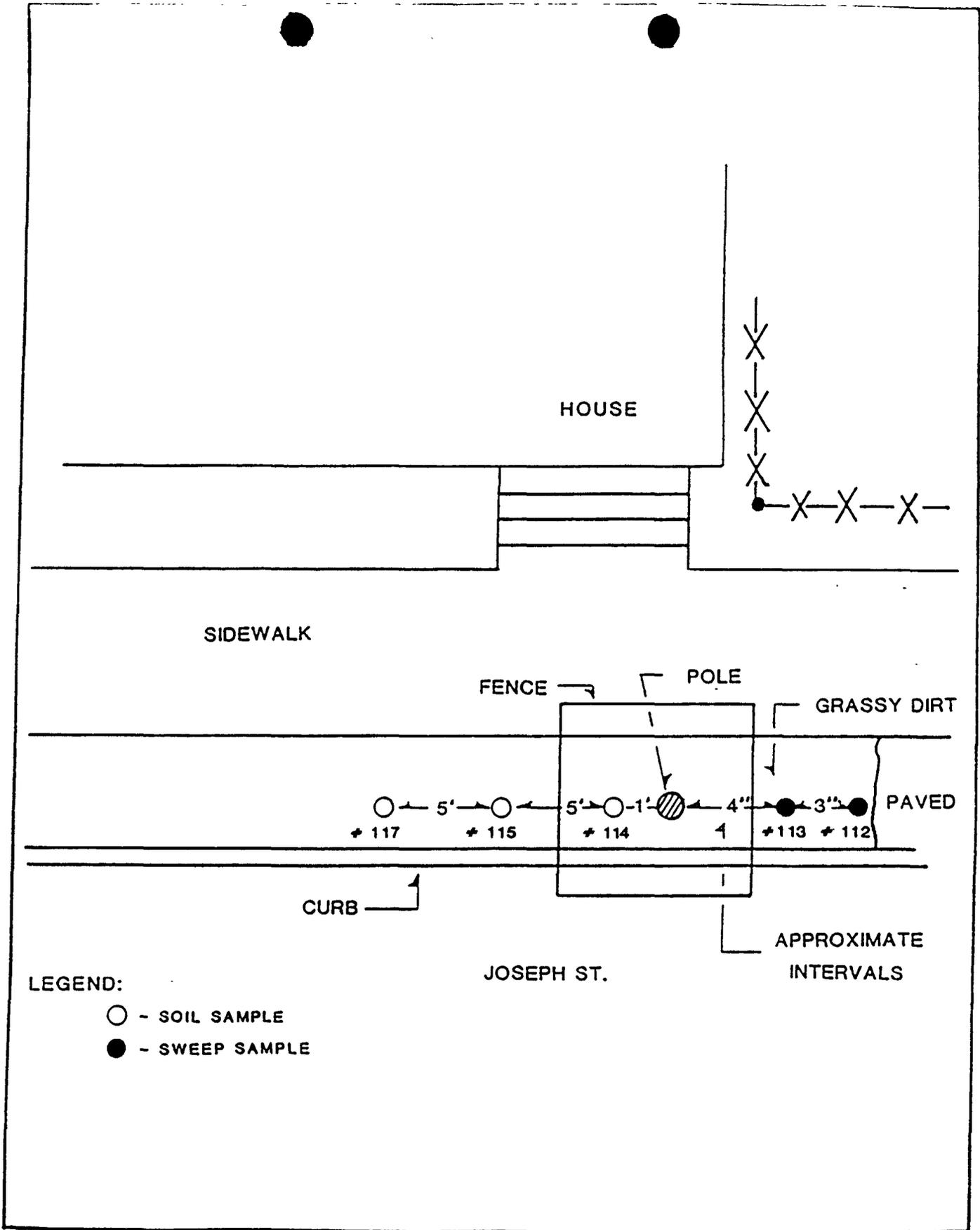


FIGURE 6-3



SAMPLE LOCATIONS  
HAWKIN STREET SCHOOL  
AND REFORMED TRINITY CHURCH





SAMPLE LOCATIONS

#68 JOSEPH ST

FIGURE 6-5



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
PUBLIC CONTACT AREAS PHASE I  
6/14/83 - 6/17/83**

TABLE 2  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PUBLIC CONTACT AREAS  
NEWARK REGIONAL FARMERS MARKET  
6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat

No samples with concentrations 1 ppb or greater.

NOTES:

- (a) 22 samples were collected.
- (b) 17 samples had no detection of TCDD.
- (c) 4 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) 1 sample was detected below 1.00 ppb TCDD.

**TABLE 3**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**PUBLIC CONTACT AREAS**  
**HAWKIN STREET SCHOOL AND REFORMED TRINITY CHURCH**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat

No samples with concentrations 1 ppb or greater.

NOTES:

- (a) 9 samples were collected.
- (b) 9 samples had no detection of TCDD.

TABLE 4  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PUBLIC CONTACT AREAS  
ROOSEVELT HOMES HOUSING PROJECT  
6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat

No samples with concentrations 1 ppb or greater.

NOTES:

- (a) 25 samples were collected.
- (b) 24 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.

TABLE 5  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 PUBLIC CONTACT AREAS  
 #68 JOSEPH STREET  
 6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
113	Joseph Street Parkway in front of #63	Sweep	1.1	ND (ENV) 1.2 (ENV) 1.0 (ENV) 0.95 1.1 duplicate 0.61 triplicate
114	Joseph Street Parkway in front of #63	Soil	NG	3.0 3.0 duplicate
115	Joseph Street Parkway in front of #63	Soil	2.4	3.5 (ENV) 2.7 (ENV) 4.1 (ENV) 2.2 2.1 duplicate 1.8 triplicate
117	Joseph Street Parkway in front of #63	Soil	4.1 3.8 duplicate	3.2 (ENV) 4.9 (ENV) 4.1 (ENV) 3.1 3.5 duplicate 3.5 triplicate

## NOTES:

- (a) 5 samples were collected.
- (b) 1 sample was detected below 1.00 ppb TCDD.
- (c) (ENV) = Sample analyzed by Envirodyne.
- (d) ND = Not Detected.
- (e) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**PUBLIC CONTACT AREAS PHASE I**  
**6/14/83 - 6/17/83**

**TABLE 6 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**PUBLIC CONTACT AREAS**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
64	Farmer's Market NW corner of Albert Ave. & Joseph St.	Sweep	0.51	ND (ENV) 0.70 0.64 duplicate 0.60 triplicate
65	Farmer's Market SW corner of market	Sweep	ND	
66	Known Blank	Soil	ND	
66N	Matrix Spike of Sample 66		1.1	
67	QA Reference Material B (actual value = 0.0)	Soil	ND	
68	Farmers Market Telephone pole in SE corner	Soil	ND	
69	Farmer's Market Catherine Street	Sweep	ND	
70	QA Reference Material C (actual value = 3.0)	Soil	2.8	
71	Farmer's Market Nursery planter box	Soil	ND	
72	Farmer's Market Catherine Street	Sweep	ND	
73	Farmer's Market Potato loading area	Sweep	ND	
74	Hawkins Street School Adjacent lot	Soil	ND ND duplicate	
75	Hawkins Street School Adjacent lot	Soil	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Samples analyzed by Envirodyne.

**TABLE 6**  
**ALL SAMPLES INCLUDING QA/QC**  
**PUBLIC CONTACT AREAS**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
42	Known Blank	Soil	ND	
42N	Matrix Spike of Sample 42		1.2	
43	Hayes Park East SW corner of lawn	Soil	ND	
44	Hayes Park East West edge of lawn	Soil	ND	
45	Hayes Park East NW corner of lawn	Soil	ND	
46	Hayes Park East NE corner of lawn	Soil	ND	
47	QA Reference Material C (actual value = 3.0)	Soil	2.9	
48	Hayes Park East SE corner of lawn	Soil	ND	
49	Hayes Park East SE corner of deck	Sweep	ND	
50	QA Reference Material B (actual value = 0.0)	Soil	ND	
51	Hayes Park East SW corner of deck	Sweep	1.0	NG (ENV) ND (ENV) 0.44 0.60 duplicate 1.0 triplicate
52	Hayes Park East NW corner of deck	Sweep	3.1	NG (ENV) 2.9 (ENV) 2.8 (ENV) 1.6 2.5 duplicate 2.0 triplicate

ND = Not Detected  
(ENV) = Sample analyzed by Envirodyne

TABLE 6 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PUBLIC CONTACT AREAS  
6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
53	Hayes Park East NE corner of deck	Sweep	0.58	NG (ENV) ND (ENV) 0.90 0.75 duplicate 2.0 triplicate
54	Unknown Blank	Soil	ND	
55	Hayes Park East Center of swimming pool	Sweep	ND	
56	Hayes Park East Deck construction	Soil	ND	
57	Farmer's Market North end of crate dist.	Soil	ND	
58	QA Reference Material C (actual value = 3.0)	Soil	2.2	
59	Farmer's Market South end of crate dist.	Soil	ND	
60	Farmer's Market West of Fish Market	Sweep	ND	
61	Farmer's Market NW corner of Albert Ave. & Catherine St.	Sweep	ND	
62	Farmer's Market NE corner of Albert Ave. & Cornelia St.	Soil	ND	
63	QA Reference Material B (actual value = 0.0)	Soil	ND	

ND = Not Detected

(ENV) = Sample analyzed by Envirodyne

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 1  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 PUBLIC CONTACT AREAS  
 HAYES PARK EAST  
 6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
51	Hayes Park East SW corner of deck	Sweep	1.0	NG (ENV) ND (ENV) 0.44 0.60 duplicate 1.0 triplicate
52	Hayes Park East NW corner of deck	Sweep	3.1	NG (ENV) 2.9 (ENV) 2.8 (ENV) 1.6 2.5 duplicate 2.0 triplicate

NOTES:

- (a) 11 samples were collected.
- (b) 8 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.
- (d) (ENV) = Sample analyzed by Envirodyne.
- (e) ND = Not Detected.
- (f) NG = Did not pass EPA Monitoring Management Branch QA/QC requirement.

**TABLE 6 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**PUBLIC CONTACT AREAS**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
76	Hawkins Street School Hawkins Street	Sweep	ND	
77	Hawkins Street School South side	Soil	ND	
78	Hawkins Street School Near steps on SE side	Sweep	NG	ND
79	Hawkins Street School Cortland St. Parkway	Soil	ND	
80	Hawkins Street School Playground	Sweep	ND	
81	Reformed Trinity Church Yard behind house	Soil	ND	
82	Reformed Trinity Church Ferry Street side	Soil	ND	
83	Roosevelt Homes	Soil	ND	
84	Roosevelt Homes	Soil	ND	
85	QA Reference Material C (actual value = 3.0)	Soil	2.9	
86	Roosevelt Homes	Soil	ND	
87	Roosevelt Homes	Soil	ND	
88	Unknown Blank	Soil	ND	
89	QA Reference Material B (actual value = 0.0)	Soil	ND	
90	Roosevelt Homes	Soil	ND	
91	Roosevelt Homes	Soil	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 6 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**PUBLIC CONTACT AREAS**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
92	Roosevelt Homes	Soil	ND	
93N	Known Blank (Matrix Spike)		1.4	
94	Roosevelt Homes	Soil	ND	
95	Roosevelt Homes	Soil	0.16	
96	QA Reference Material C (actual value = 3.0)	Soil	3.0	
97	QA Reference Material B (actual value = 0.0)	Soil	ND	
98	Roosevelt Homes	Soil	ND	
99	Roosevelt Homes	Soil	ND	
100	Roosevelt Homes	Soil	ND	
101	Roosevelt Homes	Soil	ND	
102	Roosevelt Homes	Soil	ND	ND duplicate
103	Roosevelt Homes	Soil	ND	
104	QA Reference Material B (actual value = 0.0)	Soil	ND	
105	QA Reference Material C (actual value = 3.0)	Soil	2.7	
106	Roosevelt Homes	Soil	ND	
107	Roosevelt Homes	Soil	ND	
108	Roosevelt Homes	Soil	ND	
109	Roosevelt Homes	Soil	ND	
110	Roosevelt Homes	Soil	ND	

ND = Not Detected

TABLE 6 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PUBLIC CONTACT AREAS  
6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
111	Unknown Blank	Soil	ND	
112	Joseph Street Parkway in front of #63	Sweep	0.83	2.2 (ENV) 1.2 (ENV) 0.86 (ENV) 0.70 0.62 duplicate 0.50 triplicate
113	Joseph Street Parkway in front of #63	Sweep	1.1	ND (ENV) 1.2 (ENV) 1.0 (ENV) 0.95 1.1 duplicate 0.61 triplicate
114	Joseph Street Parkway in front of #63	Soil	NG	3.0 3.0 duplicate
115	Joseph Street Parkway in front of #63	Soil	2.4	3.5 (ENV) 2.7 (ENV) 4.1 (ENV) 2.2 2.1 duplicate 1.8 triplicate
116	Unknown Blank	Soil	ND	
117	Joseph Street Parkway in front of #63	Soil	4.1 3.8 duplicate	3.2 (ENV) 4.9 (ENV) 4.1 (ENV) 3.1 3.5 duplicate 3.5 triplicate
118	QA Reference Material C (actual value = 3.0)	Soil	2.9	
119	Farmer's Market Alderiso Bros., Inc.	Air conditioning filter sample	NG	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Samples analyzed by Envirodyne

**TABLE 6 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**PUBLIC CONTACT AREAS**  
**6/14/83 - 6/17/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
120	QA Reference Material B (actual value = 0.0)	Soil	ND	
121	Farmer's Market Mose Aimone & Son, Inc.	Air conditioning filter sample	ND	
122	Farmer's Market Frieman's	Air conditioning filter sample	NG	
123	Farmer's Market Donna Food's	Air conditioning filter sample	ND	
124	Farmer's Market Wohl, Shafman, Lieberman	Air conditioning filter sample	ND	
125	Farmer's Market Benny's Wholesale	Air conditioning filter sample	NG	
126	Farmer's Market Leo Davis & Son, Inc.	Air conditioning filter sample	ND	
127	Farmer's Market T. F. Aapicano	Air conditioning filter sample	ND	
128	QA Reference Material C (actual value = 3.0)	Soil	3.1	
129	Farmer's Market State Produce	Air conditioning filter sample	ND	
130N	Known Blank (Matrix Spike)	Soil	1.05	
131	Farmer's Market Mueller Air Freight	Air conditioning filter sample	NG	
132	QA Reference Material B (actual value = 0.0)	Soil	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 6 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PUBLIC CONTACT AREAS  
6/14/83 - 6/17/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
133	Roosevelt Homes Bldg. 24, Apt. 2B	Vacuum cleaner bag	ND	
134	Roosevelt Homes Bldg. 24, Apt. 2C	Vacuum cleaner bag	ND	
135	Roosevelt Homes Bldg. 26, Apt. 2B	Vacuum cleaner bag	ND	
136	Roosevelt Homes Bldg. 25, Apt. 3A	Vacuum cleaner bag	NG	ND
137	Roosevelt Homes Bldg. 24, Apt. 3B	Vacuum cleaner bag	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TRANSPORTATION ROUTES**

**PHASE I**

**80 LISTER AVENUE**

**NEWARK, N.J.**

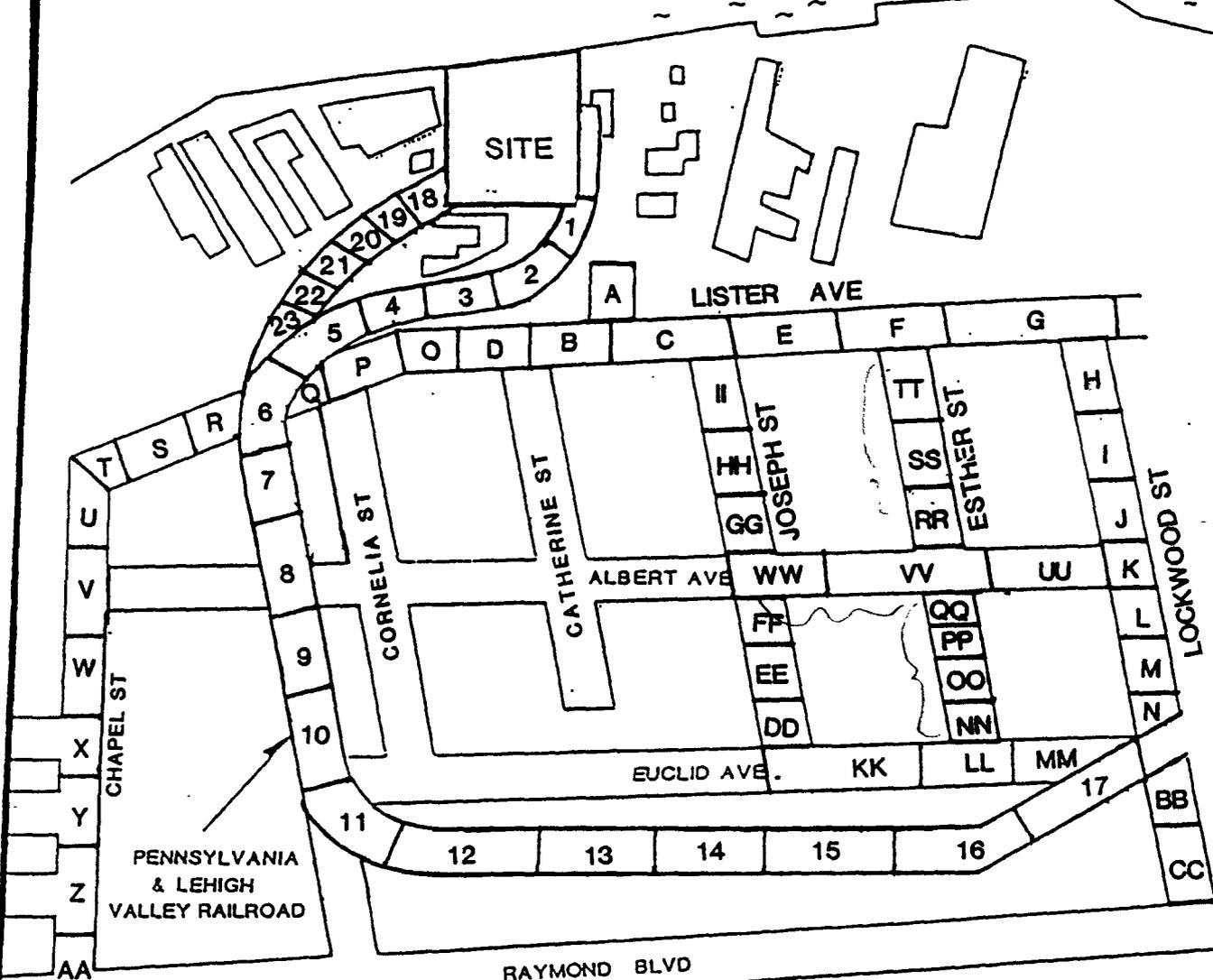
**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
TRANSPORTATION ROUTES PHASE I  
6/22/83 - 7/1/83**



PASSAIC RIVER

SITE

LISTER AVE



LEGEND:

 DENOTES SAMPLING SEGMENT

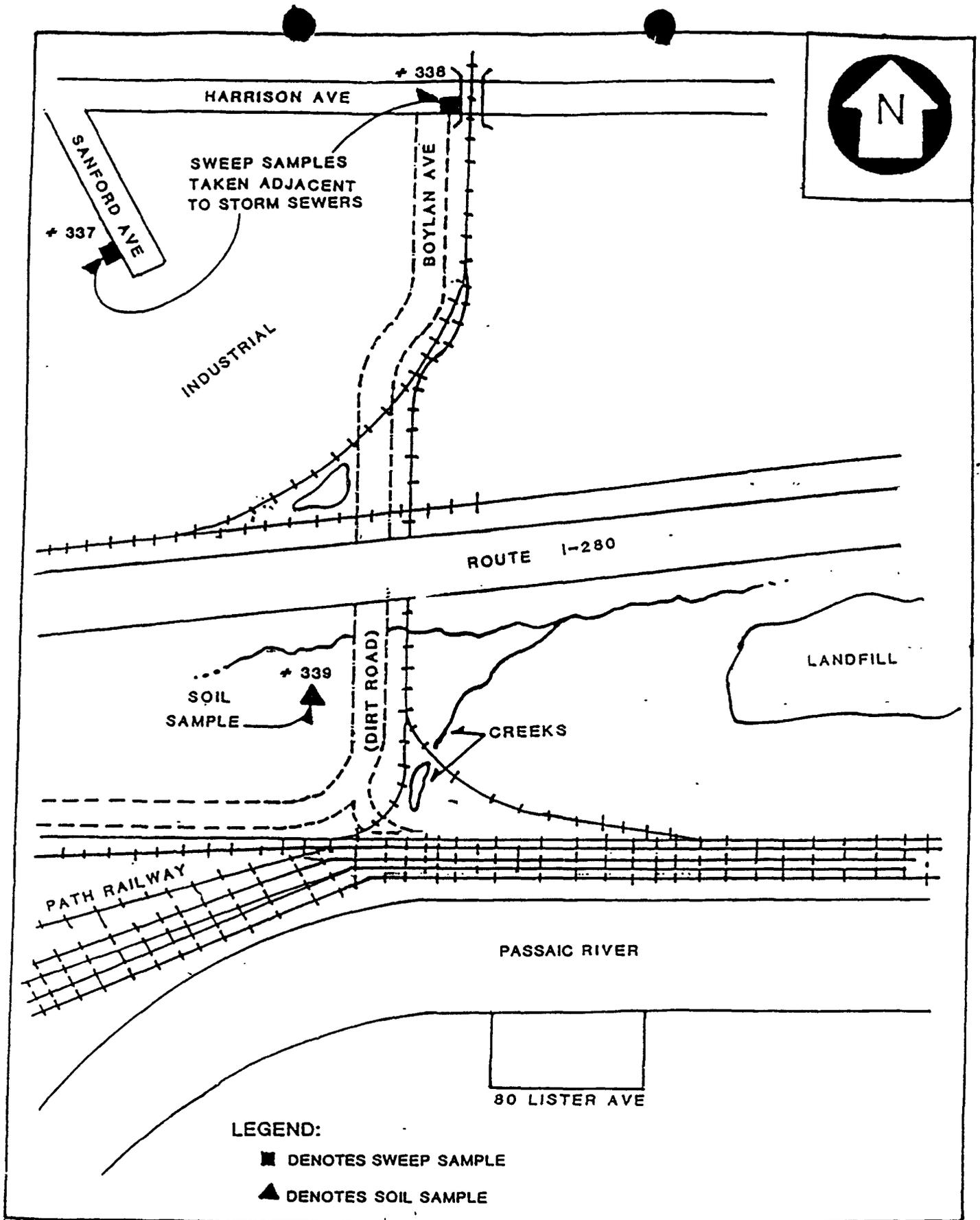
TRANSPORTATION ROUTE

FIGURE 8-1

SAMPLING SEGMENTS LOCATION MAP  
( NOT TO SCALE )

8-1





SAMPLE LOCATIONS  
HARRISON, N.J.

( NOT TO SCALE )

8-2

FIGURE 8-2



**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES**  
**80 LISTER AVENUE DRIVEWAY**  
**6/22/83 - 7/1/83**

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"A"	142	80 Lister Avenue Driveway-(R)- 36' from "O"	E-Sweep	NG	1.1
"A"	143	80 Lister Avenue Driveway-(R)- 52' from "O"	W-Soil E-Sweep	NG	4.0
"A"	146	80 Lister Avenue Driveway-(B)- 55' from "O"	W-Soil E-Sweep	NG	2.2
"A"	148	80 Lister Avenue Driveway-(B)- 64' from "O"	E & W-Sweep	NG	3.3
"A"	151	80 Lister Avenue Driveway-(B)- 87' from "O"	E & W Soil	NG	3.0 3.8 4.0 3.9 duplicate

## NOTES:

- (a) 10 samples were collected.
- (b) 4 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.
- (d) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (f) (R) denotes samples taken at a random distance from "O".
- (g) (B) denotes sample taken at a biased distance from "O".

TABLE 2  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES  
LISTER AVENUE  
6/12/83 - 7/1/83

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"D"	155	Lister Avenue - (R)-52' from "O"	N - Sweep S - Soil	NG	1.2
"B"	153	Lister Avenue - (R)-26' from "O"	N & S - Soil	NG	1.3
"C"	159	Lister Avenue - (R)-37' from "O"	N - Sweep S - Soil	NG	1.2
"C"	163	Lister Avenue - (B)-100' from "O"	N - Soil S - Soil	NG(ENV)	1.39 (BAT)

NOTES:

- (a) 28 samples were collected.
- (b) 9 samples had no detection of TCDD.
- (c) 14 samples were detected below 1.00 ppb TCDD.
- (d) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) (BAT) = sample analyzed by Battelle.
- (f) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (g) (R) denotes samples taken at a random distance from "O".
- (h) (B) denotes sample taken at a biased distance from "O".

**TABLE 3  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES  
JOSEPH STREET  
6/22/83 - 7/1/83**

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SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 12 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 1 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (c) 9 samples were detected below 1.00 ppb TCDD.

**TABLE 4**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES**  
**ESTHER STREET**  
**6/22/83 - 7/1/83**

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"SS"	206	Esther Street (B)-130' from "O"	E - Soil W - Sweep	ND	1.1
"RR"	226	Esther Street - (R)-32' from "O"	E & W - Sweep	5.9	
"QQ"	220	Esther Street - (B)-111' from "O"	E & W - Soil	1.0	
"OO"	221	Esther Street (R)-154' from "O"	E & W - Soil	1.6	
"NN"	242	Esther Street (R)-25' from "O"	E & W - Soil	2.2	

## NOTES:

- (a) 14 samples were collected.
- (b) 9 samples had no detection of TCDD.
- (c) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) ND = Not Detected
- (e) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (f) (R) denotes samples taken at a random distance from "O".
- (g) (B) denotes sample taken at a biased distance from "O".

**TABLE 5**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES**  
**LOCKWOOD STREET**  
**6/22/83 - 7/1/83**

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"K"	214	Lockwood Street (R)-112' from "O"	E - Sweep W - Soil	NG	1.0 1.2 duplicate
"L"	232	Lockwood Street - (B)-149' from "O"	E - Sweep W - Soil	1.7	2.6
"M"	233	Lockwood Street - (R)-24' from "O"	E - Soil	1.5	
"M"	234	Lockwood Street - (B)-157' from "O"	E & W -Soil	2.3	
"N"	252	Lockwood Street - (R)-14' from "O"	E - Sweep W - Soil	2.1	
"N"	250	Lockwood Street - (B)-29' from "O"	E - Sweep W - Soil	2.0	
"BB"	249	Lockwood Street - (R)-80' from "O"	E & W - Soil	2.3	
"BB"	243	Lockwood Street - (B)-129' from "O"	E & W - Sweep	50.0	20.0
"CC"	246	Lockwood Street - (R)-36' from "O"	E & W - Soil	2.7	
"CC"	247	Lockwood Street - (B)-41' from "O"	E & W - Soil	3.3	

## NOTES:

- (a) 18 samples were collected.
- (b) 6 samples had no detection of TCDD.
- (c) 2 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (f) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (g) (R) denotes samples taken at a random distance from "O".
- (h) (B) denotes sample taken at a biased distance from "O".

TABLE 6  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 TRANSPORTATION ROUTES  
 ALBERT AVENUE  
 6/22/83 - 7/1/83

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"WW"	276	Albert Avenue - (R) - 54' from "0"	N & S - Soil	NG (ENV)	1.35 (BAT)
"UU"	278	Albert Avenue - (B) - 177' from "0"	S - Sweep	NG (ENV)	1.27 (BAT)

NOTES:

- (a) 6 samples were collected.
- (b) 3 samples were detected below 1.00 ppb TCDD.
- (c) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) NG = did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) (ENV) = sample analyzed by Envirodyne.
- (f) (BAT) = sample analyzed by Battelle.

TABLE 7  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 TRANSPORTATION ROUTES  
 EUCLID AVENUE  
 6/22/83 - 7/1/83

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"LL"	255	Euclid Avenue - (B)-92' from "O"	N & S - Soil	1.8	
"MM"	253	Euclid Avenue - (B)-51' from "O"	N & S - Soil	2.1	2.1 duplicate
"MM"	254	Euclid Avenue - (R)-76' from "O"	N & S - Soil	4.2	

NOTES:

- (a) 6 samples were collected.
- (b) 1 sample had no detection of TCDD.
- (c) 2 samples were detected below 1.00 ppb TCDD.
- (d) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (e) (R) denotes samples taken at a random distance from "O".
- (f) (B) denotes sample taken at a biased distance from "O".

TABLE 8  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES  
CHAPEL STREET  
6/22/83 - 7/1/83

---

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 14 samples were collected.
- (b) 7 samples had no detection of TCDD.
- (c) 2 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) 7 samples were detected below 1.00 ppb TCDD.

TABLE 9  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 TRANSPORTATION ROUTES  
 RAILROADS  
 6/22/83 - 7/1/83

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"1"	288	Railroad - (B)-17' from "O"	Soil	NG	1.9
"1"	297	Railroad - (B) - 47' from "O"	Soil	NG	3.8
"1"	291	Railroad - (B) - 64' from "O"	Soil	NG	1.2
"1"	293	Railroad - (R) - 78' from "O"	Soil	NG	6.9
"2"	309	Railroad - (B)-74' from "O"	Soil	9.9	
"2"	307	Railroad - (R)-92' from "O"	Soil	3.4 3.4 duplicate	
"3"	310	Railroad - (B)-33' from "O"	Soil	2.3	
"3"	311	Railroad - (R)-56' from "O"	Soil	2.5	
"4"	285	Railroad - (B)-130' from "O"	Soil	1.1	
"9"	314	Railroad - (B)-177' from "O"	Soil	1.7	
"12"	324	Railroad - (B)-81' from "O"	Soil	7.1	
"14"	334	Railroad - (R)-98' from "O"	Soil	2.0	
"14"	333	Railroad - (B)-144' from "O"	Soil	2.8	

**TABLE 9 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES**  
**RAILROADS**  
**6/22/83 - 7/1/83**

Revision 0  
 9/7/83

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"15"	330	Railroad - (R)-38' from "O"	Soil	7.0	
"15"	328	Railroad - (B)-163' from "O"	Soil	23	
"16"	322	Railroad - (B)-49' from "O"	Soil	520	450
"16"	323	Railroad - (B)-81' from "O"	Soil	210	190
"17"	335	Railroad - (B)-42' from "O"	Soil	11	
"18"	346	Railroad - (R)-3' from "O"	Soil	8.9	
"18"	343	Railroad - (B)-15' from "O"	Soil	1.2	
"18"	344	Railroad - (B)-24' from "O"	Soil	3.3	
"18"	349	Railroad - (B)-44' from "O"	Soil	1.2	
"18"	348	Railroad - (R)-52' from "O"	Soil	1.1	
"18"	347	Railroad - (B)-65' from "O"	Soil	5.7	
"18"	356	Railroad - (R)-72' from "O"	Soil	6.8	11 (ENV)

**TABLE 9 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES**  
**RAILROADS**  
**6/22/83 - 7/1/83**

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
"18"	357	Railroad - (B)-82' from "O"	Soil	1.7	2.4 (ENV)
"18"	352	Railroad - (R)-98' from "O"	Soil	19	
"19"	366	Railroad - (B)-22' from "O"	Soil	3.1	
"19"	365	Railroad - (R)-40' from "O"	Soil	3.6	
"19"	362	Railroad - (B)-78' from "O"	Soil	1.3	
"23"	372	Railroad - (R)-32' from "O"	Soil	1.4	2.3 (ENV)

## NOTES:

- (a) 65 samples were collected.
- (b) 11 samples had no detection of TCDD.
- (c) 3 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) 20 samples were detected below 1.00 ppb TCDD.
- (e) (ENV) = Sample analyzed by Envirodyne.
- (f) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (g) (R) denotes samples taken at a random distance from "O".
- (h) (B) denotes sample taken at a biased distance from "O".

TABLE 10  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES  
HARRISON  
6/22/83 - 7/1/83

---

SEGMENT	SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 3 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**TRANSPORTATION ROUTES PHASE I**  
**6/22/83 - 7/1/83**

TABLE 11  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE DESCRIPTIONS

"O" denotes end point of segment closest to the site as one moves outward along the transportation route.

(R) denotes samples taken at a random distance from "O".

(B) denotes sample taken at a biased distance from "O".

- ALL SOIL -

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
138	80 Lister Avenue Driveway - Segment "A" (R) - 3' from "O"	NG	ND NG duplicate ND
139	80 Lister Avenue Driveway - Segment "A" (B) - 9' from "O"	NG	ND
140	80 Lister Avenue Driveway - Segment "A" (B) - 25' from "O"	NG	ND
141	Unknown Blank	ND	
142	80 Lister Avenue Driveway - Segment "A" (R) - 36' from "O"	NG	1.1
143	80 Lister Avenue Driveway - Segment "A" (R) - 52' from "O"	NG	4.0
144	QA Reference Material C (actual value = 3.0)	2.6	
145	QA Reference Material B (actual value = 0.0)	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
146	80 Lister Avenue Driveway - Segment "A" (B) - 55' from "O"	NG	2.2
147	80 Lister Avenue Driveway - Segment "A" (R) - 76' from "O"	NG	ND
148	80 Lister Avenue Driveway - Segment "A" (B) - 64' from "O"	NG	3.3
149	80 Lister Avenue Driveway - Segment "A" (R) - 98' from "O"	NG	0.6
150	Lister Avenue - Segment "B" (B) - 45' from "O"	NG	ND 0.98
151	80 Lister Avenue Driveway - Segment "A" (B) - 87' from "O"	NG	3.0 3.8 4.0 3.9 duplicate
152	Lister Avenue - Segment "B" (R) - 73' from "O"	NG	0.95
153	Lister Avenue - Segment "B" (R) - 26' from "O"	NG	1.3
154	Lister Avenue - Segment "B" (B) - 93' from "O"	NG	ND
155	Lister Avenue - Segment "D" (R) - 52' from "O"	NG	1.2
156	Lister Avenue - Segment "D" (B) - 22' from "O"	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
 ALL SAMPLES INCLUDING QA/QC  
 TRANSPORTATION ROUTES  
 6/22/83 - 7/1/83

Revision 1  
 9/15/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
157	QA Reference Material B (actual value = 0)	ND	
158	QA Reference Material C (actual value = 3.0)	2.1	
159	Lister Avenue - Segment "C" (R) - 37' from "O"	NG	1.2
160	Lister Avenue - Segment "C" (B) - 18' from "O"	NG	ND
161N	Known Blank (Matrix Spike)	1.01 0.98 duplicate	
162	Lister Avenue - Segment "C" (R) - 66' from "O"	NG (ENV)	0.44 (BAT)
163	Lister Avenue - Segment "C" (B) - 100' from "O"	NG (ENV)	1.39 (BAT)
164N	Known Blank (Matrix Spike)	NG (ENV)	1.46 (BAT)
165	Lister Avenue - Segment "E" (R) - 31' from "O"	NG (ENV)	0.34 (BAT)
166	QA Reference Material C (actual value = 3.0)	NG (ENV)	
166A	QA Reference Material A (Native)	5.73 (BAT)	
167	QA Reference Material B (actual value = 0.0)	NG (ENV)	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Sample analyzed by Envirodyne.

(BAT) = Sample analyzed by Battelle.

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
168	Lister Avenue - Segment "E" (B) - 87' from "O"	NG (ENV)	0.39 (BAT)
169	Chapel Street - Segment "W" (R) - 152' from "O"	NG (ENV)	0.11 (BAT)
170	Chapel Street - Segment "W" (B) - 57' from "O"	NG (ENV)	NG 0.50 (BAT)
171	Chapel Street - Segment "V" (R) - 94' from "O"	NG (ENV)	0.09 (BAT)
172	Chapel Street - Segment "V" (B) - 54' from "O"	NG (ENV)	0.20 (BAT)
173	Lister Avenue - Segment "O" (B) - 38' from "O"	NG (ENV)	0.26 (BAT)
174	Lister Avenue - Segment "P" (R) - 148' from "O"	NG (ENV)	0.41 (BAT)
175	Lister Avenue - Segment "P" (B) - 76' from "O"	NG	ND
176	Lister Avenue - Segment "O" (R) - 112' from "O"	NG (ENV)	0.32 (BAT)
177	QA Reference Material C (actual value = 3.0)	NG (ENV)	
177A	QA Reference Material A (Native)	NG (BAT)	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Sample analyzed by Envirodyne.

(BAT) = Sample analyzed by Battelle.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

Revision 1  
9/15/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
178	Chapel Street - Segment "Y" (B) - 181' from "O"	NG (ENV)	0.09 (BAT)
179	Chapel Street - Segment "Y" (R) - 84' from "O"	NG (ENV) NG duplicate (ENV)	ND NG (BAT)
180	Chapel Street - Segment "X" (B) - 198' from "O"	NG (ENV)	0.20 (BAT)
181	Chapel Street - Segment "X" (R) - 118' from "O"	NG (ENV)	0.16 (BAT) 0.14 (BAT) duplicate
182	Lister Avenue - Segment "R" (B) - 70' from "O"	NG (ENV)	ND (BAT)
183	Lister Avenue - Segment "R" (R) - 2' from "O"	NG (ENV)	0.59 (BAT)
184	QA Reference Material B (actual value = 0.0)	NG (ENV)	
184A	QA Reference Material A (Native)	NG (BAT)	
185	Lister Avenue - Segment "Q" (B) - 115' from "O"	NG (ENV)	0.28 (BAT)
186	Unknown Blank	NG	ND
187	Lister Avenue - Segment "Q" (R) - 44' from "O"	NG	ND
188	QA Reference Material D (Region VII)	Lost sample, will be re-run	3.1

ND = Not Detected

NG = Did not pass EPA Monitoring Management QA/QC requirements.

(ENV) = Sample analyzed by Envirodyne.

(BAT) = Sample analyzed by Battelle.

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
189	Unknown Blank	NG (ENV)	ND (BAT)
190	Chapel Street - Segment "AA" (B) ' 84' from "O"	NG	ND
191	Chapel Street - Segment "AA" (R) - 36' from "O"	NG	ND ND duplicate
192	QA Reference Material A (Native)	Not enough sample, will be re-run	6.2
193	Chapel Street - Segment "Z" (B) - 100' from "O"	NG	ND
194	Chapel Street - Segment "Z" (R) - 42' from "O"	NG	ND
195	Lister Avenue - Segment "T" (R) - 124' from "O"	NG	ND
196	Lister Avenue - Segment "S" (B) - 80' from "O"	NG	ND
197	Lister Avenue - Segment "S" (R) - 120' from "O"	NG NG duplicate	ND
198	Lister Avenue - Segment "T" (B) - 79' from "O"	NG	ND
199	Chapel Street - Segment "U" (B) - 145' from "O"	NG	ND
200	QA Reference Material D (Region VII)	Not enough sample, will be re-run	3.4

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
201	Chapel Street - Segment "U" (R) - 72' from "O"	NG	ND
202	Lister Avenue - Segment "F" (R) - 84' from "O"	0.4	
203	Lister Avenue - Segment "G" (R) - 170' from "O"	0.68	
204	Lister Avenue - Segment "F" (B) - 154' from "O"	0.2	
205	Lister Avenue - Segment "G" (B) - 55' from "O"	0.14	
206	Esther Street - Segment "SS" (B) - 130' from "O"	NG	1.1
207N	Known Blank (Matrix Spike)	NG	0.96
208	QA Reference Material A (Native)	Not enough sample, will be re-run	5.1
209	Esther Street - Segment "SS" (R) - 98' from "O"	NG	ND
210	QA Reference Material C (actual value = 3.0)	2.7	
211	Esther Street - Segment "TT" (B) - 138' from "O"	NG	ND NG duplicate
212	Esther Street - Segment "TT" (R) - 58' from "O"	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
 ALL SAMPLES INCLUDING QA/QC  
 TRANSPORTATION ROUTES  
 6/22/83 - 7/1/83

Revision 0  
 9/7/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
213	QA Reference Material B (actual value = 0.0)	ND	
214	Lockwood Street - Segment "K" (R) - 112' from "O"	NG	1.0 1.2 duplicate
215	Lockwood Street - Segment "H" (R) - 16' from "O"	ND	
216	Unknown Blank	ND	
217	Lockwood Street - Segment "I" (B) - 147' from "O"	ND	
218	Lockwood Street - Segment "H" (B) - 73' from "O"	NG	ND
219	Lockwood Street - Segment "I" (R) - 86' from "O"	ND	NG duplicate
220	Esther Street - Segment "QQ" (B) - 111' from "O"	1.0	
221	Esther Street - Segment "OO" (R) - 154' from "O"	1.6	
222	Esther Street - Segment "QQ" (R) - 170' from "O"	ND	
223	Esther Street - Segment "RR" (B) - 132' from "O"	ND	
224N	Known Blank (Matrix Spike)	0.99	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
225	QA Reference Material C (actual value = 3.0)	2.4	
226	Esther Street - Segment "RR" (R) - 32' from "O"	5.9	
227	Esther Street - Segment "PP" (B) - 187' from "O"	ND	
228	Lockwood Street - Segment "J" (B) - 29' from "O"	ND	
229	QA Reference Material B (actual value = 0.0)	ND	
230	Lockwood Street - Segment "J" (R) - 124' from "O"	0.91	
231	Lockwood Street - Segment "K" (B) - 22' from "O"	ND	
232	Lockwood Street - Segment "L" (B) - 149' from "O"	1.7	2.6
233	Lockwood Street - Segment "M" (R) - 24' from "O"	1.5	
234	Lockwood Street - Segment "M" (B) - 157' from "O"	2.3	
235	Esther Street - Segment "PP" (R) - 48' from "O"	ND	

ND = Not Detected

8-23

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
236	Esther Street - Segment "OO" (B) - 99' from "O"	ND	
237	QA Reference Material B (actual value = 0.0)	ND	
238	QA Reference Material C (actual value = 3.0)	2.6	
239	Euclid Avenue - Segment "KK" (R) - 46' from "O"	0.53	
240	Esther Street - Segment "NN" (B) - 39' from "O"	ND	
241	Euclid Avenue - Segment "KK" (B) - 113' from "O"	ND	
242	Esther Street - Segment "NN" (R) - 25' from "O"	2.2	
243	Lockwood Street - Segment "BB" (B) - 129' from "O"	50.0	20.0
244	Unknown Blank	ND	
245	Lockwood Street - Segment "L" (R) - 34' from "O"	0.7	
246	Lockwood Street - Segment "CC" (R) - 36' from "O"	2.7	

ND = Not Detected

TABLE 11 (cont'd)  
 ALL SAMPLES INCLUDING QA/QC  
 TRANSPORTATION ROUTES  
 6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
247	Lockwood Street - Segment "CC" (B) - 41' from "O"	3.3	
248	QA Reference B (actual value = 0.0)	ND	
249	Lockwood Street - Segment "BB" (R) - 80' from "O"	2.3	
250	Lockwood Street - Segment "N" (B) - 29' from "O"	2.0	
251	QA Reference Material C (actual value = 3.0)	2.8	
252	Lockwood Street - Segment "N" (R) - 14' from "O"	2.1	
253	Euclid Avenue - Segment "MM" (B) - 51' from "O"	2.1 2.1 duplicate	
254	Euclid Avenue - Segment "MM" (R) - 76' from "O"	4.2	
255	Euclid Avenue - Segment "LL" (B) - 92' from "O"	1.8	
256	Euclid Avenue - Segment "LL" (R) - 126' from "O"	0.48	
257N	Known Blank (Matrix Spike)	1.1	

ND = Not Detected

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
258	QA Reference Material B (actual value = 0.0)	NG (ENV)	
258A	QA Reference Material A (Native)	5.97 (BAT)	
259	QA Reference Material C (actual value = 3.0)	NG (ENV)	
259A	QA Reference Material A (Native)	5.96 (BAT)	
260	Joseph Street - Segment "HH" (R) - 146' from "O"	NG (ENV)	0.78 (BAT)
261	Joseph Street - Segment "II" (R) - 126' from "O"	NG (ENV)	0.84 (BAT)
262	Joseph Street - Segment "HH" (B) - 47' from "O"	NG (ENV)	0.86 (BAT) 0.60 (BAT)
263	Joseph Street - Segment "II" (B) 85' from "O"	NG (ENV)	
264	Joseph Street - Segment "FF" (R) - 76' from "O"	NG (ENV)	0.34 (BAT)
265	Joseph Street - Segment "FF" (B) - 197' from "O"	NG (ENV)	ND (BAT)
266	Joseph Street - Segment "GG" (B) - 67' from "O"	NG (ENV) NG duplicate (ENV)	0.45 (BAT)
267	Joseph Street - Segment "GG" (R) - 172' from "O"	NG (ENV)	0.24 (BAT)

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
 (ENV) = Sample analyzed by Envirodyne.  
 (BAT) = Sample analyzed by Battelle.

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
268	Joseph Street - Segment "DD" (B) - 155' from "O"	NG (ENV)	ND (BAT)
269N	Known Blank (Matrix Spike)	NG (ENV)	1.51 (BAT)
270	Joseph Street - Segment "DD" (R) - 36' from "O"	NG (ENV)	0.27 (BAT)
271	Joseph Street - Segment "EE" (B) - 158' from "O"	NG (ENV)	0.09 (BAT)
272	QA Reference Material C (actual value = 3.0)	NG (ENV)	
272A	QA Reference Material A (Native)	6.38 (BAT)	
273	QA Reference Material B (actual value = 0.0)	NG (ENV)	
273A	QA Reference Material A (Native)	5.45 (BAT)	
274	Joseph Street - Segment "EE" (R) - 56' from "O"	NG (ENV)	0.27 (BAT)
275	Albert Avenue - Segment "WW" (B) - 96' from "O"	NG (ENV)	NG (BAT)
276	Albert Avenue - Segment "WW" (R) - 54' from "O"	NG (ENV)	1.35 (BAT)
277	Albert Avenue - Segment "UU" (R) - 30' from "O"	NG (ENV)	0.73 (BAT)

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
 (ENV) = Sample analyzed by Envirodyne.

(BAT) = Sample analyzed by Battelle.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
278	Albert Avenue - Segment "UU" (B) - 177' from "O"	NG (ENV)	1.27 (BAT)
279	Unknown Blank	NG (ENV)	ND (BAT)
280	Albert Avenue - Segment "VV" (R) - 146' from "O"	NG (ENV)	0.18 (BAT)
281	Albert Avenue - Segment "VV" (B) - 43' from "O"	NG (ENV)	0.57 (BAT)
282N	Known Blank (Matrix Spike)	0.94	1.35 1.07
283	Railroad - Segment "5" (B) - 167' from "O"	0.44	
284	Railroad - Segment "5" (R) - 84' from "O"	ND	
285	Railroad - Segment "4" (B) - 130' from "O"	1.1	
286	Railroad - Segment "4" (R) - 72' from "O"	0.84	
287	Railroad - Segment "1" (R) - 3' from "O"	NG	0.71
288	Railroad - Segment "1" (B)-17' from "O"	NG	1.9

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Sample analyzed by Envirodyne.

(BAT) = Sample analyzed by Battelle.

**TABLE 11 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES**  
**6/22/83 - 7/1/83**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
289	Railroad - Segment "1" (B) - 29' from "O"	NG NG duplicate	0.68
290	Railroad - Segment "1" (R) - 36' from "O"	NG	NG ND duplicate 0.91
291	Railroad - Segment "1" (B) - 64' from "O"	NG	1.2
292	Unknown Blank	NG	ND
293	Railroad - Segment "1" (R) - 78' from "O"	NG	6.9
294	Railroad - Segment "1" (R) - 96' from "O"	NG	ND
295	QA Reference Material C (actual value = 3.0)	2.6	
296	Railroad - Segment "1" (B) - 90' from "O"	NG	NG To be re-run a third time
297	Railroad - Segment "1" (B) - 47' from "O"	NG	3.8
298	Railroad - Segment "1" (R) - 52' from "O"	NG	ND
299	Railroad - Segment "7" (R) - 192' from "O"	NG	ND
300	Railroad - Segment "6" (R) - 112' from "O"	0.26	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
301	QA Reference Material C (actual value = 3.0)	2.8	
302	Railroad - Segment "7" (B) - 48' from "O"	0.92	
303	Railroad - Segment "6" (B) - 37' from "O"	0.41	
304N	Known Blank (Matrix spike)	1.05	
305	Railroad - Segment "2" (B) - 45' from "O"	NG	NG to be re-run a third time
306	Railroad - Segment "2" (R) - 36' from "O"	NG	NG to be re-run a third time
307	Railroad - Segment "2" (R) - 92' from "O"	3.4 3.4 duplicate	
308	QA Reference Material D (Region VII)	2.9	
309	Railroad - Segment "2" (B) - 74' from "O"	9.9	
310	Railroad - Segment "3" (B) - 33' from "O"	2.3	
311	Railroad - Segment "3" (R) - 56' from "O"	2.5	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
312	Railroad - Segment "13" (R) - 18' from "O"	0.43	
313	Railroad - Segment "13" (B) - 47' from "O"	0.87	
314	Railroad - Segment "9" (B) - 177' from "O"	1.7	
315	Railroad - Segment "8" (R) - 76' from "O"	ND	
316	Railroad - Segment "10" (B) - 86' from "O"	0.61	
317	QA Reference Material D (Region VII)	3.3	
318	Railroad - Segment "10" (R) - 114' from "O"	0.42	
319	Unknown Blank	ND	
320	Railroad - Segment "9" (R) - 98' from "O"	0.43	
321	Railroad - Segment "8" (B) - 56' from "O"	ND	
322	Railroad - Segment "16" (R) - 49' from "O"	520	450

ND = Not Detected

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
323	Railroad - Segment "16" (B) - 115' from "O"	210	190
324	Railroad - Segment "12" (B) - 81' from "O"	7.1	
325	Railroad - Segment "11" (R) - 32' from "O"	0.62	
326	QA Reference Material D (Region VII)	3.0	
328	Railroad - Segment "15" (B) - 163' from "O"	23	
329N	Known Blank (Matrix Spike)	0.91	0.94
330	Railroad - Segment "15" (R) - 38' from "O"	7.0	
331	Railroad - Segment "12" (R) - 156' from "O"	0.53	
332	Railroad - Segment "11" (B) - 195' from "O"	0.45	
333	Railroad - Segment "14" (B) - 144' from "O"	2.8	
334	Railroad - Segment "14" (R) - 98' from "O"	2.0	

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
335	Railroad - Segment "17" (B) - 42' from "O"	11	
336	Railroad - Segment "17" (R) - 57' from "O"	0.67	
337	Harrison - adjacent to storm sewer on SW side of Sanford Ave.	ND	ND ND duplicate
338	Harrison - adjacent to storm sewer on south side of Harrison Avneue	ND	
339	Harrison - western side of Boylan Avenue	0.1	
341	QA Reference Material D (Region VII)	3.3 3.6 duplicate	
342	Unknown Blank	ND	
343	Railroad - Segment "18" (B) - 15' from "O"	1.2	
344	Railroad - Segment "18" (B) - 24- from "O"	3.3	
346	Railroad - Segment "18" (R) - 3' from "O"	8.9	
347	Railroad - Segment "18" (B) - 65' from "O"	5.7	

ND = Not Detected

8-33

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
348	Railroad - Segment "18" (R) - 52' from "O"	1.1	
349	Railroad - Segment "18" (B) - 44' from "O"	1.2	
350N	Known Blank (Matrix Spike)	1.05	1.1 0.97 1.6 (ENV)
352	Railroad - Segment "18" (R) - 98' from "O"	19	
353	QA Reference Material D (Region VII)	3.5	5.5 (ENV)
356	Railroad - Segment "18" (R) - 72' from "O"	6.8	11 (ENV)
357	Railroad - Segment "18" (B) - 82' from "O"	1.7	2.4 (ENV)
358	Railroad - Segment "22" (R) - 98' from "O"	ND	0.39 (ENV)
359	Railroad - Segment "22" (B) - 118' from "O"	0.58	0.99 (ENV)
360	Railroad - Segment "20" (B) - 28' from "O"	ND	ND (ENV)
361	Railroad - Segment "20" (R) - 83' from "O"	ND	ND (ENV)

ND = Not Detected  
(ENV) = Sample analyzed by Envirodyne.

TABLE 11 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES  
6/22/83 - 7/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
362	Railroad - Segment "19" (B) - 78' from "O'	1.3	
363	Railroad - Segment "19" (R) - 96' from "O'	ND	
364	Unknown Blank	NG	ND ND (ENV)
365	Railroad - Segment "19" (R) - 40' from "O"	3.6	
366	Railroad - Segment "19" (B) - 22' from "O"	3.1	
369	QA Reference Material D (Region VII)	3.2	5.1 (ENV)
372	Railroad - Segment "23" (R) - 32' from "O"	1.4	2.3 (ENV)
373	Railroad - Segment "23" (B) - 186' from "O"	0.4 0.41 duplicate	0.77 (ENV)
374	Railroad - Segment "21" (R) - 58' from "O'	ND	
375	Railroad - Segment "21" (B) - 131' from "O"	0.31	ND (ENV)

ND = Not Detected

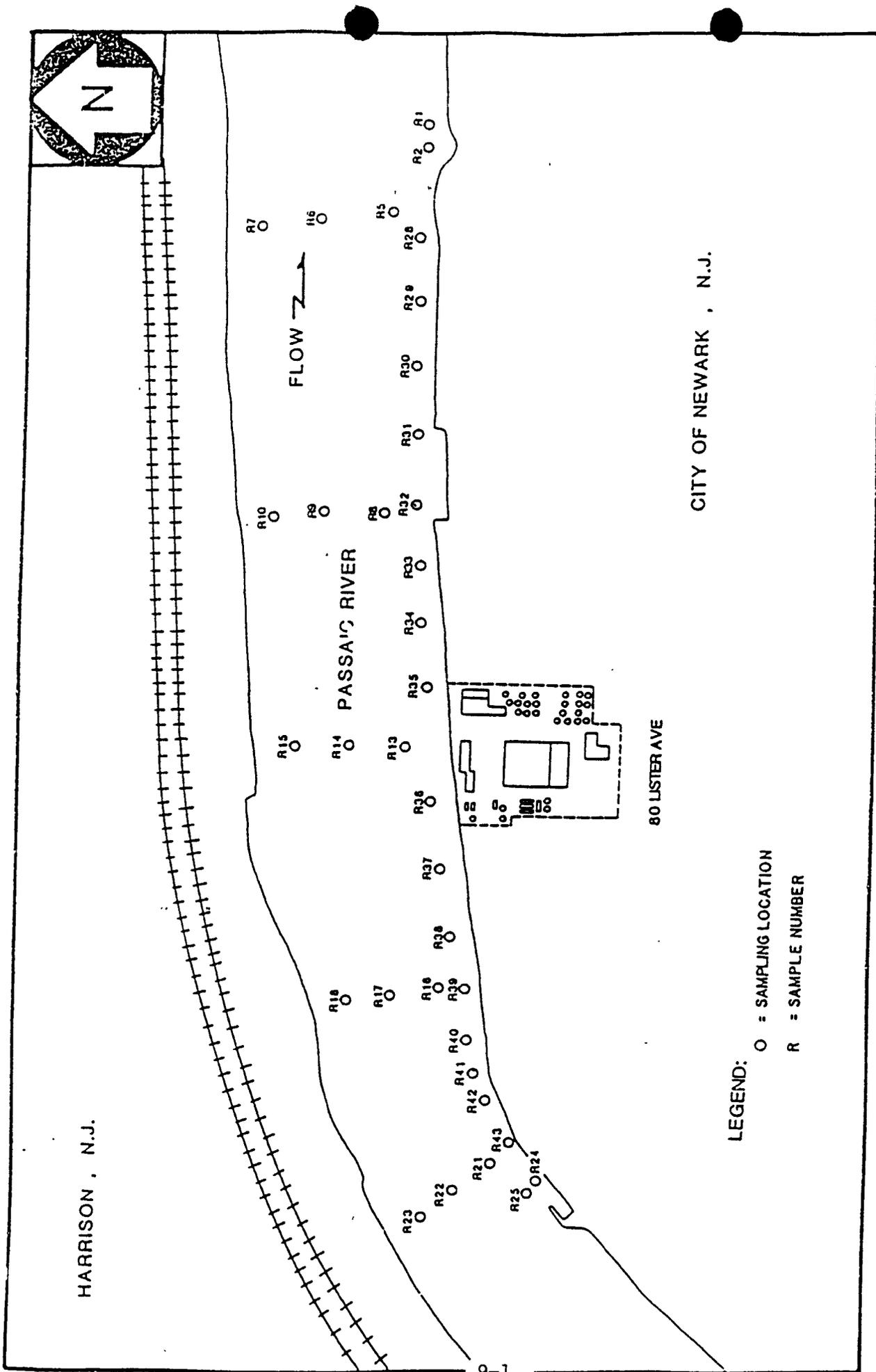
NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(ENV) = Sample analyzed by Envirodyne.

**PASSAIC RIVER SEDIMENT**

**80 LISTER AVENUE**

**NEWARK, N.J.**



PASSAIC RIVER SEDIMENT  
 SAMPLE LOCATION MAP

FIGURE 9-1

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
PASSAIC RIVER SEDIMENT  
6/28/83 - 6/29/83**

TABLE 1  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 PASSAIC RIVER SEDIMENT  
 6/28/83 - 6/29/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
R13	Center of the site, south shore	River sediment	2.1	
R31	Bulkhead line, approx. 500' east of site	River sediment	1.2	
R36	Bulkhead line south center of the site	River sediment	NG	6.9
R37	Bulkhead line approx. 200' west of site	River sediment	1.2	
R38	Bulkhead line approx. 300' west of site	River sediment	3.0	
R42	Bulkhead line approx. 700' west of site	River sediment	2.6	

NOTES:

- (a) 35 samples were collected.
- (b) 14 samples had no detection of TCDD.
- (c) 15 samples were detected below 1.00 ppb TCDD.
- (d) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**PASSAIC RIVER SEDIMENT**  
**6/28/83 - 6/29/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER SEDIMENT  
6/28/83 - 6/29/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
R1	1300' down river of the site, south shore	River sediment	0.48	
R2	1300' down river of the site, south shore	River sediment	0.3	
R3	QA Reference Material D (Region III)	Soil	3.1	
R4N	Known Blank (Matrix Spike)	Soil	0.94	
R5	800' down river of the site, south shore	River sediment	ND	
R6	800' down river of the site, mid-river	River sediment	ND	
R7	800' down river of the site, north shore	River sediment	ND	
R8	300' down river of the site, south shore	River sediment	ND	
R9	300' down river of the site, mid-river	River sediment	0.99	
R10	300' down river of the site, north shore	River sediment	ND	
R11	QA Reference Material D (Region III)	Soil	3.1 3.0 duplicate	
R12	Unknown Blank	Soil	ND	
R13	Center of the site, south shore	River sediment	2.1	
R14	Center of the site, mid-river	River sediment	0.19	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER SEDIMENT  
6/28/83 - 6/29/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
R15	Center of the site, north shore	River sediment	0.13	
R16	300' up river of of the site, south shore	River sediment	0.3	
R17	300' up river of the site, mid-river	River sediment	ND	
R18	300' up river of the site, north shore	River sediment	0.17	
R19N	Known Blank (Matrix Spike)	Soil	1.06	
R20	QA Reference Material D (Region III)	Soil	3.4	
R21	800' up river of the site, south shore	River sediment	NG	0.59
R22	800' up river of the site, mid-river	River sediment	NG	ND
R23	800' up river of the site, north shore	River sediment	NG	ND
R24	1300' up river of the site, south shore	River sediment	ND	
R25	1300' up river of the site, south shore	River sediment	0.95	
R26	Unknown Blank	Soil	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER SEDIMENT  
6/28/83 - 6/29/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
R27	QA Reference Material D (Region III)	Soil	3.3	
R28	Bulkhead line, approx. 800' east of site	River sediment	ND	
R29	Bulkhead line, approx. 700' east of site	River sediment	ND	
R30	Bulkhead line, approx. 600' east of site	River sediment	ND	
R31	Bulkhead line, approx. 500' east of site	River sediment	1.2	
R32	Bulkhead line, approx. 400' east of site	River sediment	0.27 ND duplicate	
R33	Bulkhead line, approx. 300' east of site	River sediment	ND	
R34	Bulkhead line, approx. 200' east of site	River sediment	0.48	
R35	Bulkhead line north center of the site	River sediment	0.6	
R36	Bulkhead line south center of the site	River sediment	NG	6.9
R37	Bulkhead line approx. 200' west of site	River sediment	1.2	
R38	Bulkhead line approx. 300' west of site	River sediment	3.0	
R39	Bulkhead line approx. 400' west of site	River sediment	0.24	
R40	Bulkhead line approx. 500' west of site	River sediment	0.14	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER SEDIMENT  
6/28/83 - 6/29/83

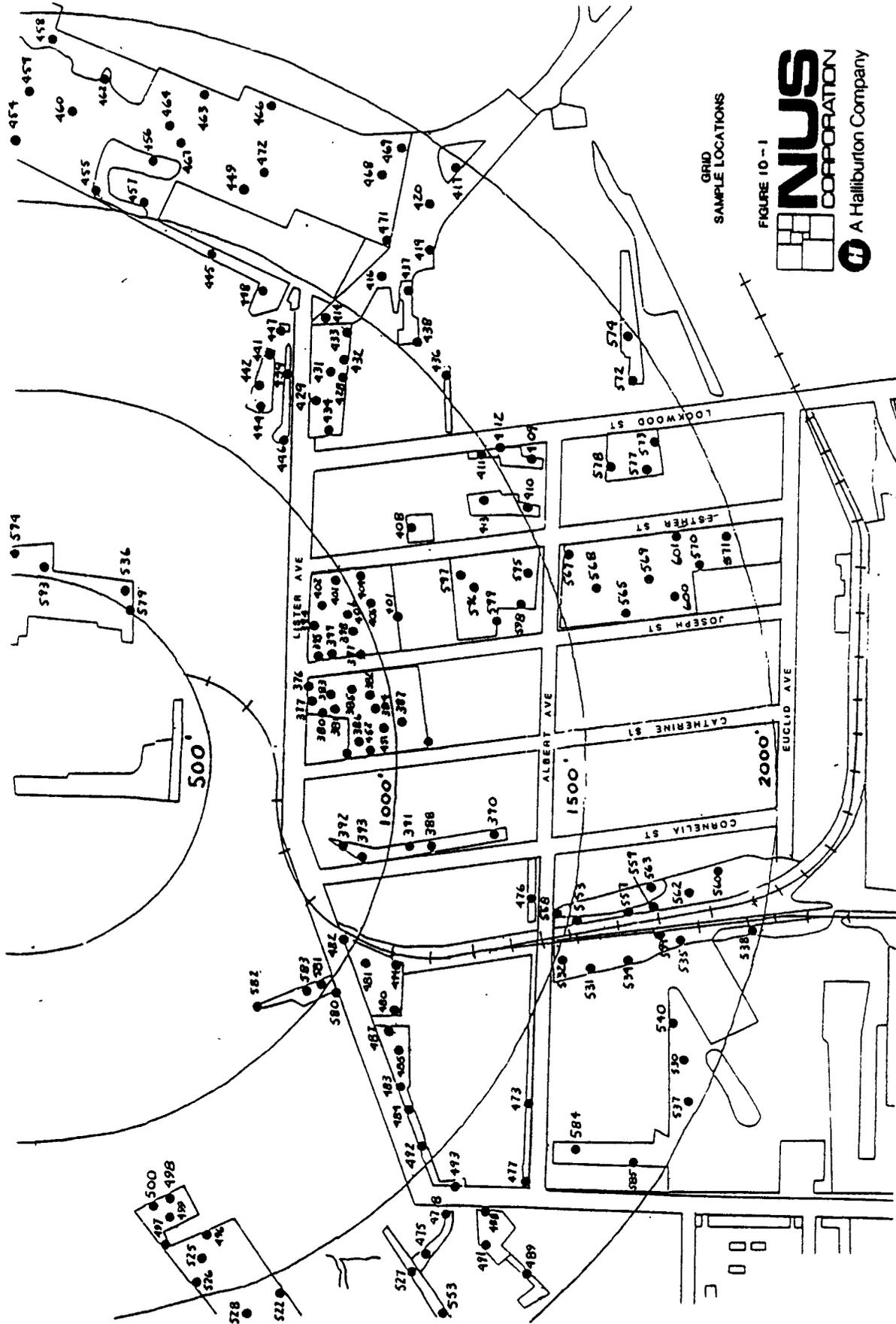
SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
R41	Bulkhead line approx. 600' west of site	River sediment	0.31	
R42	Bulkhead line approx. 700' west of site	River sediment	2.6	
R43	Bulkhead line approx. 800' west of site	River sediment	ND	

ND = Not Detected

**SELECTED GRID PHASE I**

**80 LISTER AVENUE**

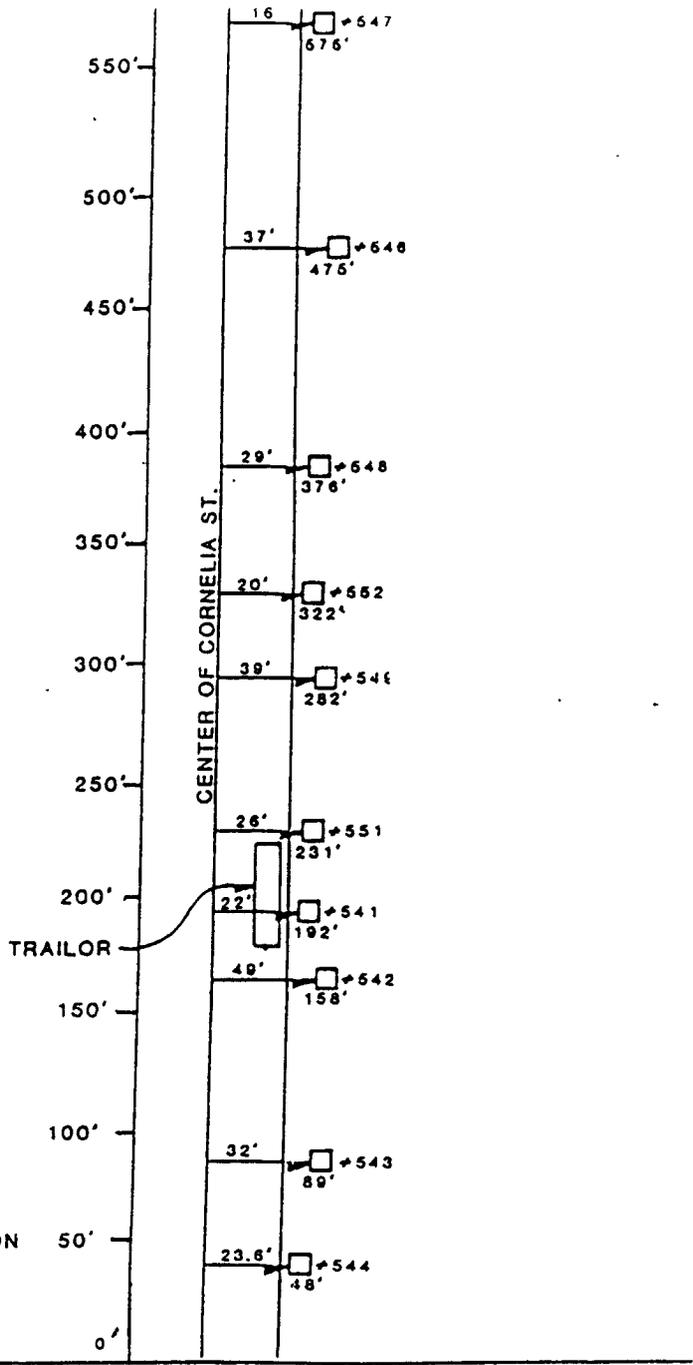
**NEWARK, N.J.**



GRID  
SAMPLE LOCATIONS

FIGURE 10-1





LEGEND:  
 □ - SOIL SAMPLE LOCATION

SAMPLES TAKEN IN VICINITY OF EPA TRAILOR

ALBERT ST. ○ CHANGE IN ROAD COVERING IS THE "0" POINT

*Handwritten signature*

FIGURE 10-2



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
SELECTED GRID PHASE I  
7/11/83 - 8/9/83**

**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**SELECTED GRID**  
**7/11/83 - 8/9/83**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
411	Lubriplate-Fisk Bros. Refinery,	1.72 (BAT)	
414	Area of R.R. spur trending S.E. from east end of Lister Avenue	1.00 (BAT) 1.03 (BAT) duplicate	
498	Palmer Industries, Lister Ave.	2.8	
499	Palmer Industries, Lister Ave.	4.4	
500	Palmer Industries, Lister Ave.	5.0	
536	Sergeant Pulp and Chemical, Lister Ave.	1.3	
564	Dust from Air Conditioner at Duralac, Lister Ave.	NG	1.3
573	Brady Iron and Metal, between Lockwood and Esther Streets	NG	1.4
574	Messinger Trucking, Lockwood St.	1.1	
577	Brady Iron and Metal, between Lockwood and Esther Sts.	4.9	
578	Brady Iron and Metal, between Lockwood and Esther Sts.	1.7	
579	Sergeant Pulp and Chemical, Lister Ave.	1.2	
581	Sherwin-Williams, Lister Ave.	1.3 1.3 duplicate	
600	22 Joseph St.	1.01	

**NOTES:**

- (a) 157 samples were collected.
- (b) 72 samples had no detection of TCDD.
- (c) 5 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) 66 samples were detected below 1.00 ppb TCDD.
- (e) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (f) (BAT) = Sample analyzed by Battelle.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**SELECTED GRID PHASE I**  
**7/11/83 - 8/9/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
376	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
377	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
378N	Known Blank (Matrix Spike)	1.12	1.0 0.85 1.29 1.24 1.14
379	QA Reference Material D (Region VII)	3.0	
380	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
381	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
382	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
383	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
384	Vacant lot, corner of Lister Ave. and Joseph St.	ND ND duplicate	
385	Vacant lot, corner of Lister Ave. and Joseph St.	0.33	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
386	Vacant lot, corner of Lister Ave. and Joseph St.	ND	
387	Vacant lot, corner of Lister Ave. and Joseph St.	0.06	
388	East side of Cornelia Street	0.88	
389	Unknown Blank	ND	
390	East side of Cornelia Street	0.27	
391	East side of Cornelia Street	0.75	
392	East side of Cornelia Street	0.39	
393	East side of Cornelia Street	0.61	
394	B-line Trucking, Esther St.	ND	
395	B-line Trucking, Esther St.	NG	ND
396	QA Reference Material A (Native)	6.3	
397	B-line Trucking, Esther St.	ND	

ND = Not Detected.

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**SELECTED GRID**  
**7/11/83 - 8/9/83**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
398	B-line Trucking, Esther St.	ND	
399	B-line Trucking, Esther St.	NG	ND
400	QA Reference Material A (Native)	6.0	
401	B-line Trucking, Esther St.	0.33 (BAT)	
402	B-line Trucking, Esther St.	NG (BAT)	
403	Unknown Blank	ND (BAT)	
404	B-line Trucking, Esther St.	NG (BAT)	
405	B-line Trucking, Esther St.	0.31 (BAT)	
406	B-line Trucking, Esther St.	ND (BAT)	
407	B-line Trucking, Esther St.	0.22 (BAT)	
408	Lubriplate-Fisk Bros. Refinery, Lockwood Street	NG (BAT)	
409	Lubriplate-Fisk Bros. Refinery, Lockwood Street	0.28 (BAT)	

ND = Not Detected.

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(BAT) = Sample analyzed by Battelle.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
410	Lubriplate-Fisk Bros. Refinery, Lockwood Street	ND (BAT)	
411	Lubriplate-Fisk Bros. Refinery, Lockwood Street	1.72 (BAT)	
412	Lubriplate-Fisk Bros. Refinery, Lockwood Street	0.09	
413	Lubriplate-Fisk Bros. Refinery, Lockwood Street	ND (BAT)	
414	Area of R.R. spur trending S.E. from east end of Lister Avenue	1.00 (BAT) 1.03 (BAT) duplicate	
415	QA Reference Material D (Regin VII)	4.57 (BAT)	
416	Area of R.R. spur trending S.E. from east end of Lister Avenue	0.24 (BAT)	
417	Areas of R.R. spur trending S.E. from east end of Lister Avenue	NG (BAT)	
418	QA Reference Material A (Native)	6.02 (BAT)	
419	Area of R.R. spur trending S.E. from east end of Lister Avenue	0.54 (BAT)	

ND = Not Detected.

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

(BAT) = Sample analyzed by Battelle.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
420	Area of R.R. spur trending S.E. from east end of Lister Avenue	ND	0.15 (BAT)
421N	Known Blank (Matrix Spike)	1.47 (BAT)	
422	QA Reference Material A (Native)	6.22 (BAT)	
428	Atlas Refinery East end of Lister Avenue	0.29 (BAT)	
429	Atlas Refinery East end of Lister Avenue	ND (BAT)	
430	Unknown Blank	ND	
431	Atlas Refinery East end of Lister Avenue	0.06	
432	Atlas Refinery East end of Lister Avenue	ND	
433	Atlas Refinery East end of Lister Avenue	0.16	
434	Atlas Refinery East end of Lister Avenue	ND	

ND = Not Detected  
(BAT) = Sample analyzed by Battelle.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
435	QA Reference Material D (Region VII)	3.1	
436	Atlas Refinery East end of Lister Avenue	0.44	
437	Atlas Refinery East end of Lister Avenue	0.46	
438	Atlas Refinery East end of Lister Avenue	ND	
439	Benjamin-Moore East end of Lister Avenue	0.40 0.52 duplicate	
440	QA Reference Material A (Native)	5.4	
441	Benjamin-Moore East end of Lister Avenue	ND	
442	Benjamin-Moore East end of Lister Avenue	0.27	
443N	Known Blank (Matrix Spike)	1.04	
444	Benjamin-Moore, East end of Lister Avenue	ND	
445	Benjamin-Moore, East end of Lister Avenue	0.20	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
446	Benjamin-Moore, East end of Lister Avenue	0.28	
447	Benjamin-Moore, East end of Lister Avenue	0.78	
448	Benjamin-Moore, East end of Lister Avenue	ND	
449	Benjamin-Moore, East end of Lister Avenue	ND	
450	QA Reference Material A (Native)	5.1	
451	Crate Supplier, Catherine St.	0.14	
452	Crate Supplier, Catherine St.	0.14	
453N	Known Blank (Matrix Spike)	0.98	
454	Benjamin-Moore, East end of Lister Avenue	ND	
455	Benjamin-Moore, East end of Lister Avenue	0.09	
456	Benjamin-Moore, East end of Lister Avenue	NG	0.47

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
457	Benjamin-Moore, East end of Lister Avenue	ND ND duplicate	
458	Fairmont Chemical, Blanchard St.	0.66	
459	Fairmont Chemical, Blanchard St.	ND	
460	Fairmont Chemical, Blanchard St.	0.08	
461	QA Reference Material A (Native)	6.6	
462	Fairmont Chemical, Blanchard St.	0.17	
463	Fairmont Chemical, Blanchard St.	0.50	
464	Fairmont Chemical, Blanchard St.	ND	
465	Unknown Blank	ND	
466	Fairmont Chemical, Blanchard St.	0.04	
467	Fairmont Chemical, Blanchard St.	ND	
468	Fairmont Chemical, Blanchard St.	0.26	
469	Fairmont Chemical, Blanchard St.	0.14	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
470	QA Reference Material D (Region VII)	3.5	
471	Fairmont Chemical, Blanchard St.	0.54	
472	Fairmont Chemical, Blanchard St.	ND	
473	North side of Albert Avenue	0.08	
474	QA Reference Material A (Native)	5.9	
475	Pilar Industries, corner of Lister Avenue and Chapel St.	ND	
476	Cellomer, corner of Albert and Cornelia Sts.	0.11	
477	Corner of Albert Avenue and Chapel Sts.	0.11	
478	Pilar Industries, corner of Lister Avenue and Chapel St.	ND	ND duplicate
479	QA Reference Material A (Native)	5.3	
480	Stanley Tool Works, Chapel St.	0.31	
481	Stanley Tool Works, Chapel St.	0.8	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
482	Stanley Tool Works, Chapel St.	ND	
483	Stanley Tool Works, Chapel St.	ND	
484	Stanley Tool Works, Chapel St.	ND	
485	Stanley Tool Works, Chapel St.	ND	
486	Unknown Blank	ND	
487	Stanley Tool Works, Chapel St.	ND	
488	Stanley Tool Works, Chapel St.	ND	
489	Stanley Tool Works, Chapel St.	NG	ND
490N	Known Blank (Matrix Spike)	1.03	
491	Stanley Tool Works, Chapel St.	ND	
492	Stanley Tool Works, Chapel St.	ND	
493	Stanley Tool Works, Chapel St.	ND	
494	Stanley Tool Works, Chapel St.	ND	
495	QA Reference Material A (Native)	5.8	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
496	Palmer Industries, Lister Avenue	0.24	
497	Palmer Industries, Lister Avenue	0.45	
498	Palmer Industries, Lister Avenue	2.8	
499	Palmer Industries, Lister Avenue	4.4	
500	Palmer Industries, Lister Avenue	5.0	
522	Palmer Industries, Lister Avenue	ND	
525	Palmer Industries, Lister Avenue	ND	
526	Palmer Industries, Lister Avenue	0.13	
527	Stanley Tool Works, Chapel St.	0.25	
528	Palmer Industries, Lister Avenue	ND	
529	QA Reference Material A (Native)	6.4	
530	Intercity Steel, corner of Chapel and Albert Sts.	ND	
531	Intercity Steel, corner of Chapel and Albert Sts.	0.41	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
532	Intercity Steel, corner of Chapel and Albert Sts.	0.16	
533N	Known Blank (Matrix Spike)	0.89	
534	Intercity Steel, corner of Chapel and Albert Sts.	0.17	
535	Intercity Steel, corner of Chapel and Albert Sts.	ND	ND duplicate
536	Sergeant Pulp and Chemical, Lister Avenue	1.3	
537	Intercity Steel, Corner of Chapel and Albert Sts.	ND	
538	Intercity Steel, Corner of Chapel and Albert Sts.	0.05	
539	Unknown Blank	ND	
540	Intercity Steel, Corner of Chapel and Albert Sts.	0.26	
541	Trailer Vicinity Resampling, Cornelia St.	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
542	Trailer Vicinity Resampling, Cornelia St.	ND	
543	Trailer Vicinity Resampling, Cornelia St.	0.42	
544	Trailer Vicinity Resampling, Cornelia St.	0.20	
545	Unknown Blank	ND	
546	Trailer Vicinity Resampling, Cornelia St.	ND	
547	Trailer Vicinity Resampling, Cornelia St.	ND	
548	Trailer Vicinity Resampling, Cornelia St.	0.89	
549	Trailer Vicinity Resampling, Cornelia St.	ND	
550	QA Reference Material A (Native)	5.6	
551	Trailer Vicinity Resampling, Cornelia St.	0.65	
552	Trailer Vicinity Resampling, Cornelia St.	ND	
553	Stancey Tool Works	0.12	
554	Adjacent to RR Tracks, West of Cornelia St.	0.43	
555	Adjacent to RR Tracks, West of Cornelia St.	0.09	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
556	QA Reference Material A (Native)	5.1	
557	Adjacent to RR Tracks, West of Cornelia St.	ND	
558	Adjacent to RR Tracks, West of Cornelia St.	0.10	
559	Adjacent to RR Tracks, West of Cornelia St.	ND	
560	Adjacent to RR Tracks, West of Cornelia St.	ND	
561N	Known Blank (Matrix Spike)	0.83	
562	Adjacent to RR Tracks West of Cornelia St.	ND	
563	Adjacent to RR Tracks West of Cornelia St.	ND	
564	Dust from Air Conditioner at Duralac, Lister Avenue	NG	1.3
565	Vacant Lot between Joseph and Esther Sts., South of Albert Avenue	ND	
566	QA Reference Material A (Native)	10	
567	Vacant Lot between Joseph and Esther Sts., South of Albert Avenue	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
 ALL SAMPLES INCLUDING QA/QC  
 SELECTED GRID  
 7/11/83 - 8/9/83

Revision 2  
 9/23/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
579	Sergeant Pulp and Chemical, Lister Ave.	1.2	
580	Sherwin-Williams, Lister Avenue	ND	
581	Sherwin-Williams, Lister Avenue	1.3 1.3 duplicate	
582	Sherwin-Williams, Lister Avenue	0.75	
583	Sherwin-Williams, Lister Avenue	NG	0.71
584	Intercity Steel, Chapel St.	0.71	
585	Intercity Steel, Chapel St.	ND	
589	Unknown Blank	ND	
590	QA Reference Material A (Native)	NG	5.0
593	Sergeant Pulp and Chemical, Lister Ave.	0.49 0.49 duplicate	
594	Sergeant Pulp and Chemical, Lister Ave.	ND	
595	102 Albert Avenue	ND	
596	55 Esther Street	ND	
597	55 Esther Street	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
568	Vacant Lot between Joseph and Esther Sts., South of Albert Avenue	ND	ND duplicate
569	#33 Esther Street	0.13	
570	Glicken Brothers, Esther Street	0.99	
571	#13 Esther Street	NG	NG
572	Messinger Trucking, Lockwood Street	0.46	
573	Brady Iron and Metal, between Lockwood and Esther Streets	NG	1.4
574	Messinger Trucking, Lockwood Street	1.1	
575	QA Reference Material A (Native)	NG	6.5 5.8 duplicate
576N	Known Blank (Matrix Spike)	1.1	1.05
577	Brady Iron and Metal, Between Lockwood and Esther Streets	4.9	
578	Brady Iron and Metal, Between Lockwood and Esther Streets	1.7	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID  
7/11/83 - 8/9/83

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
598	100 Albert Avenue	ND	
599	60 Joseph Street	ND	
600	22 Joseph Street	1.1	
601	33 Esther Street	ND	

ND = Not Detected

**PASSAIC RIVER CRAB AND FISH**

**80 LISTER AVENUE**

**NEWARK, N.J.**

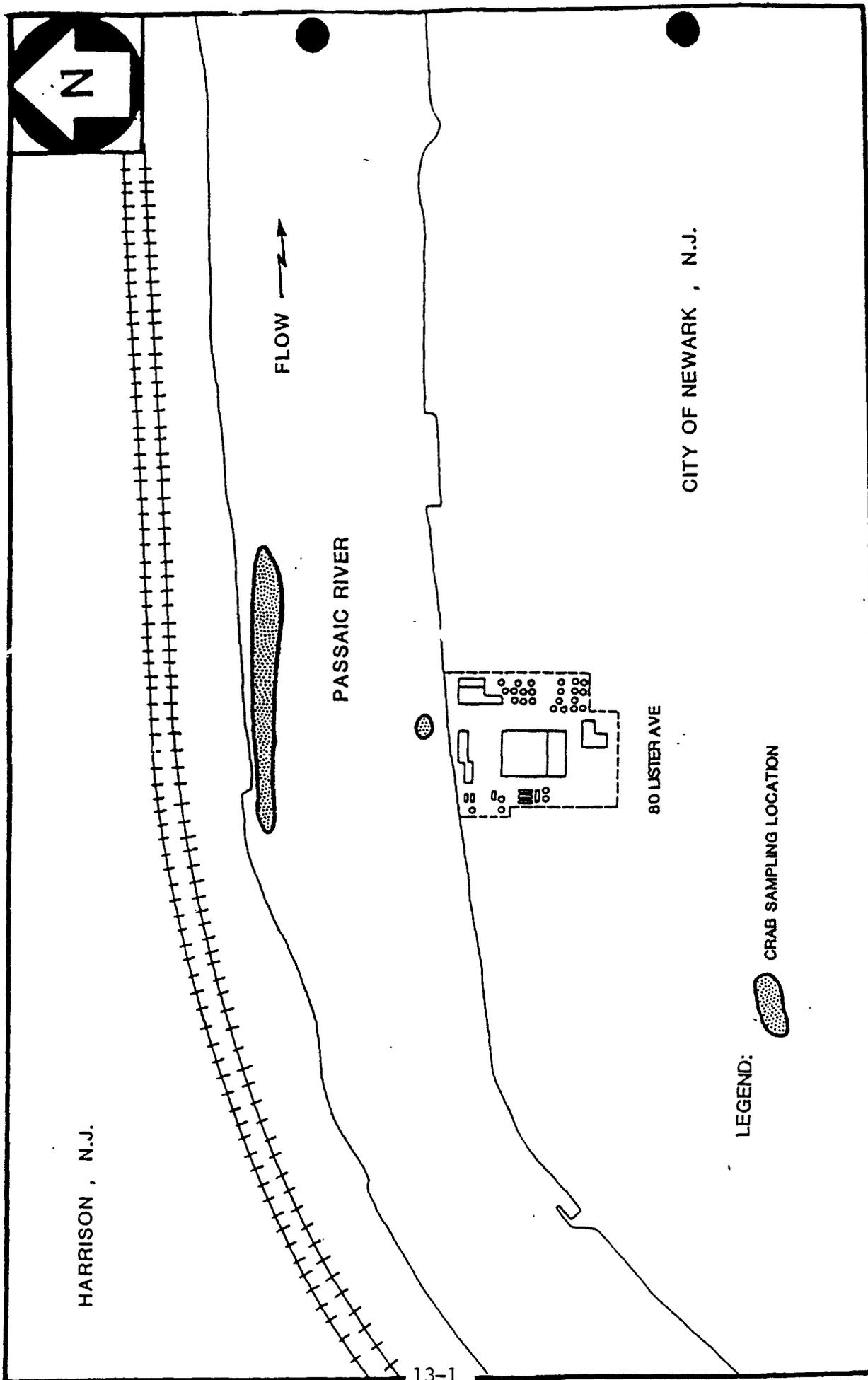
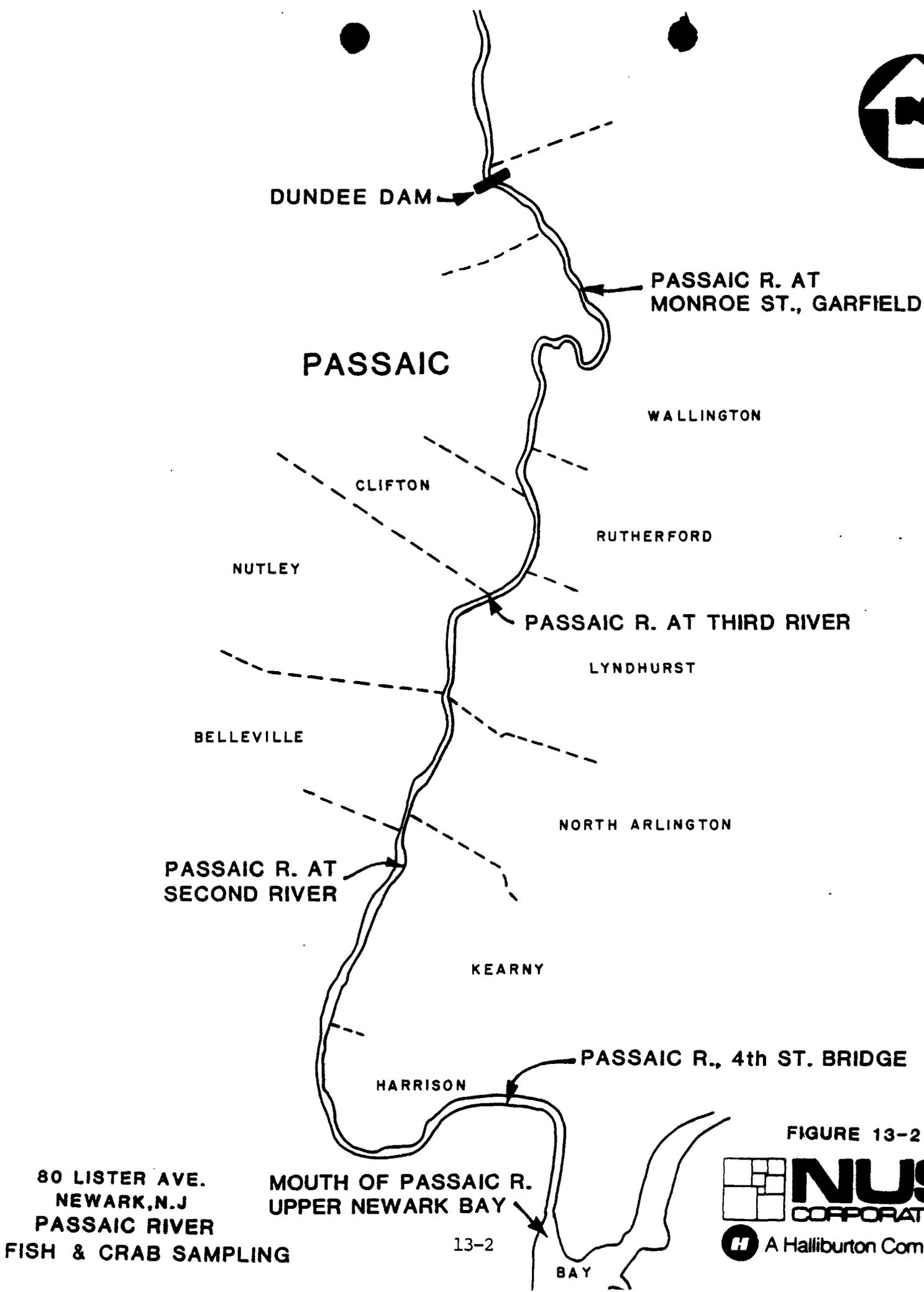


FIGURE 13-1

PASSAIC RIVER CRAB  
SAMPLE LOCATION MAP





80 LISTER AVE.  
NEWARK, N.J.  
PASSAIC RIVER  
FISH & CRAB SAMPLING

13-2

FIGURE 13-2



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
PASSAIC RIVER CRAB AND FISH  
7/14/83 - 7/15/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 50 PPT OR GREATER  
PASSAIC RIVER CRAB AND FISH  
7/14/83 AND 7/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppt)	
			Initial	Repeat
F3	Passaic River, near 4th St. Bridge	Composite of Brown Bullhead	73	
F4	Passaic River, near 4th St. Bridge	Composite of Mummichug	114	
F7	Passaic River, at mouth of Third River	Goldfish	66	
F8	Passaic River, at mouth of Third River	Carp	155	
F9	Passaic River, near Monroe St., Garfield	Carp	108	
F11	Passaic River at Dundee Dam	Channel Catfish	50	
F12	Passaic River, near 4th St. Bridge	Composite of American Eel	61	
F14	Mouth of Passaic River, Newark Bay	Striped Bass	58	

TABLE 1 (cont'd)  
SAMPLES WITH CONCENTRATIONS 50 PPT OR GREATER  
PASSAIC RIVER CRAB AND FISH  
7/14/83 and 7/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppt)	
			Initial	Repeat
F16	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Hepatopancreas	450	
F18	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Hepatopancreas	485	

## NOTES:

- (a) 16 samples were collected.
- (b) 1 sample had no detection of TCDD.
- (c) 2 samples were detected below 25 ppt TCDD.
- (d) 3 samples were detected 25 ppt or greater, but less than 50 ppt TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**PASSAIC RIVER CRAB AND FISH**  
**7/14/83 - 7/15/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER CRAB AND FISH  
7/14/83 and 7/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppt)	
			Initial	Repeat
F1	Unknown	Known blank provided by DEP	ND	
F2	Saginaw Bay, MI	Known spike provided by FDA	44	
F3	Passaic River, near 4th St. Bridge	Composite of Brown Bullhead	73	
F4	Passaic River, near 4th St. Bridge	Composite of Mummichug	114	
F5	Passaic River, near 4th St.	Composite of American Eel	31	
F6	Passaic River, near 4th St.	Composite of American Eel	22	
F7	Passaic River, at mouth of Third River	Goldfish	66	
F8	Passaic River, at mouth of Third River	Carp	155	
F9	Passasic River, near Monroe St., Garfield	Carp	108	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER CRAB AND FISH  
7/14/83 and 7/15/83

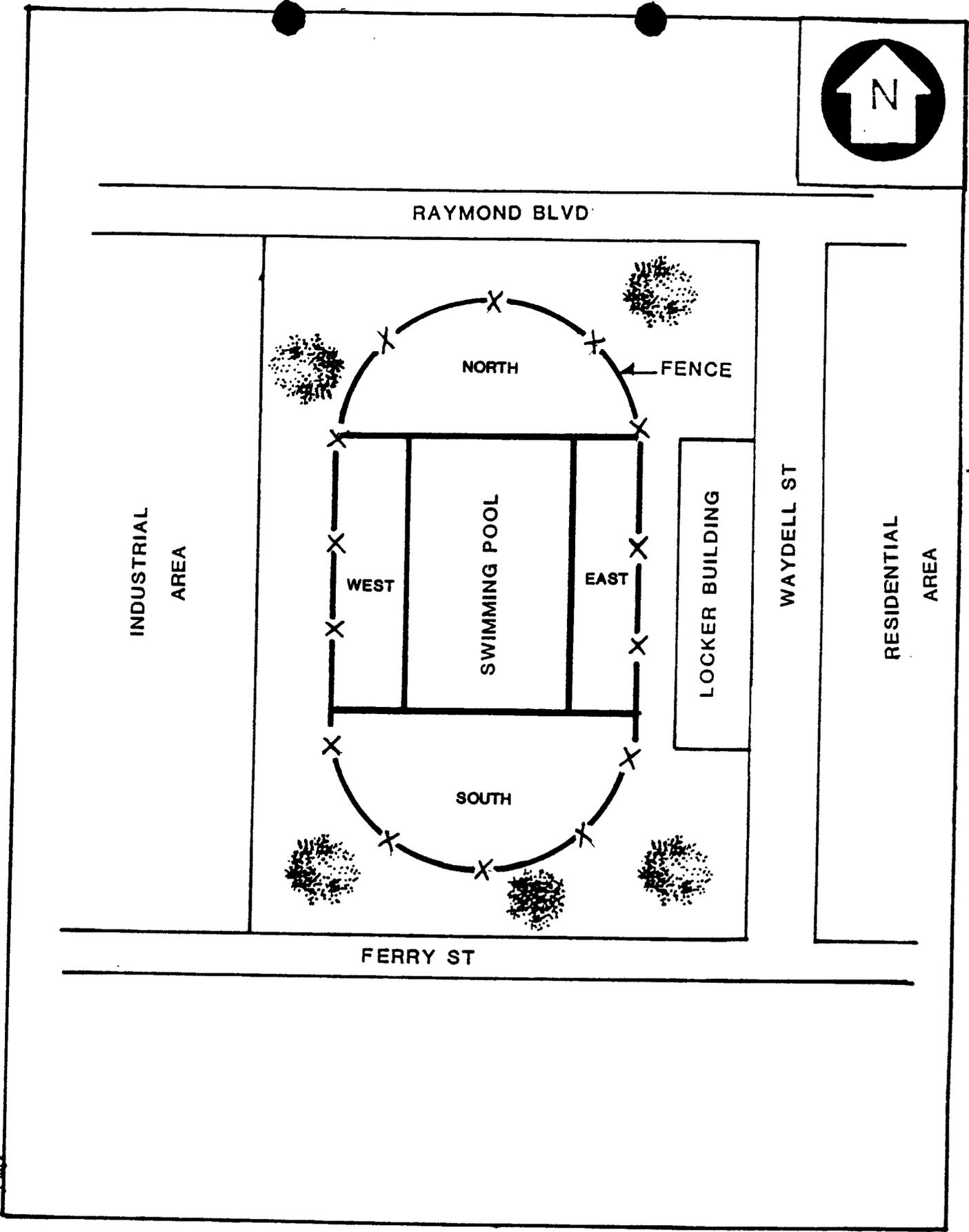
SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppt)	
			Initial	Repeat
F10	Passaic River at Dundee Dam	Composite of White Perch	ND	
F11	Passaic River at Dundee Dam	Channel Catfish	50	
F12	Passaic River, near 4th St. Bridge	Composite of American Eel	61	
F13	Unknown	Known blank provided by DEP	ND	
F14	Mouth of Passaic River, Newark Bay	Striped Bass	58	
F15	Saginaw Bay, MI	Known spike provided by FDA	42	
F16	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Hepatopancreas	450	
F17	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Muscle	27	
F18	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Hepatopancreas	485	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PASSAIC RIVER CRAB AND FISH  
7/14/83 and 7/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppt)	
			Initial	Repeat
F19	Passaic River, vicinity of 80 Lister Ave.	Composite of Crab Muscle	16	
F20	Mouth of Passaic River, Newark Bay	Composite of Striped Bass	31	
F21	Saginaw Bay, MI	Known spike pro- vided by FDA	38	

**HAYES PARK EAST**  
**TAT VACUUM BAGS**  
**80 LISTER AVENUE**  
**NEWARK, N.J.**



80 LISTER AVE.  
HAYES PARK EAST

# VACUUM BAG SAMPLING QUADRANTS

14-1

FIGURE 14-1



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
HAYES PARK EAST TAT VACUUM BAGS  
7/18/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
HAYES PARK EAST TAT VACUUM BAGS  
7/18/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 4 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 2 samples were detected below 1.00 ppb TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**HAYES PARK EAST TAT VACUUM BAGS**  
**7/18/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
HAYES PARK EAST TAT VACUUM BAGS  
7/18/83

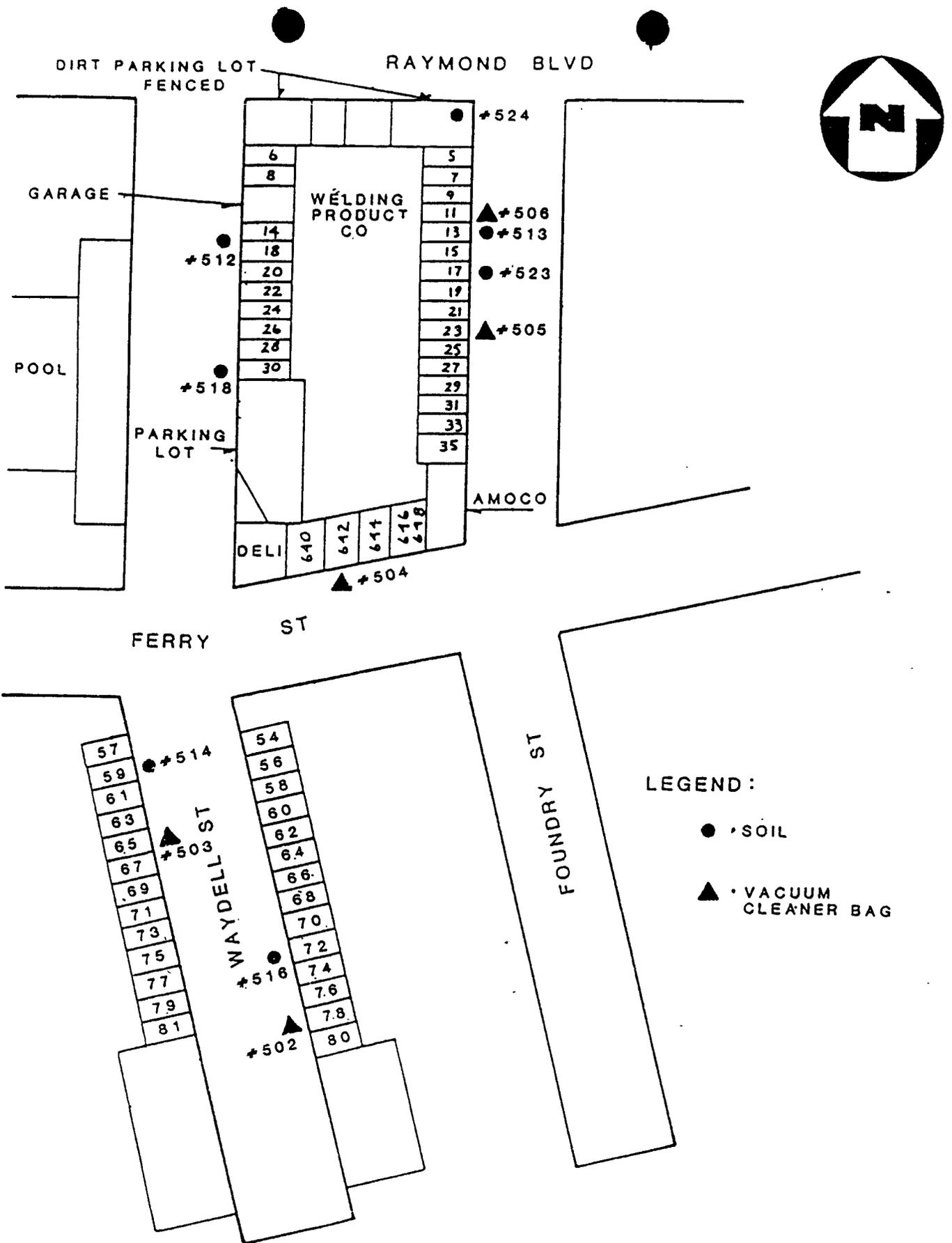
SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
G	South quadrant composite of eleven (11) vacuum bags	NG	ND ND duplicate
H	QA Reference Material A (Native)	6.3 4.4	
I	North quadrant composite of twelve (12) vacuum bags	0.78	
J	Unknown Blank	ND	
K	East quadrant composite of fourteen (14) vacuum bags	0.47	
L	West quadrant composite of ten (10) vacuum bags	NG	ND
MN	Known Blank (Matrix Spike)	1.03	
N	QA Reference Material D (Region VII)	2.9	

ND = Not Detected

**PUBLIC CONTACT AREAS PHASE II**

**80 LISTER AVENUE**

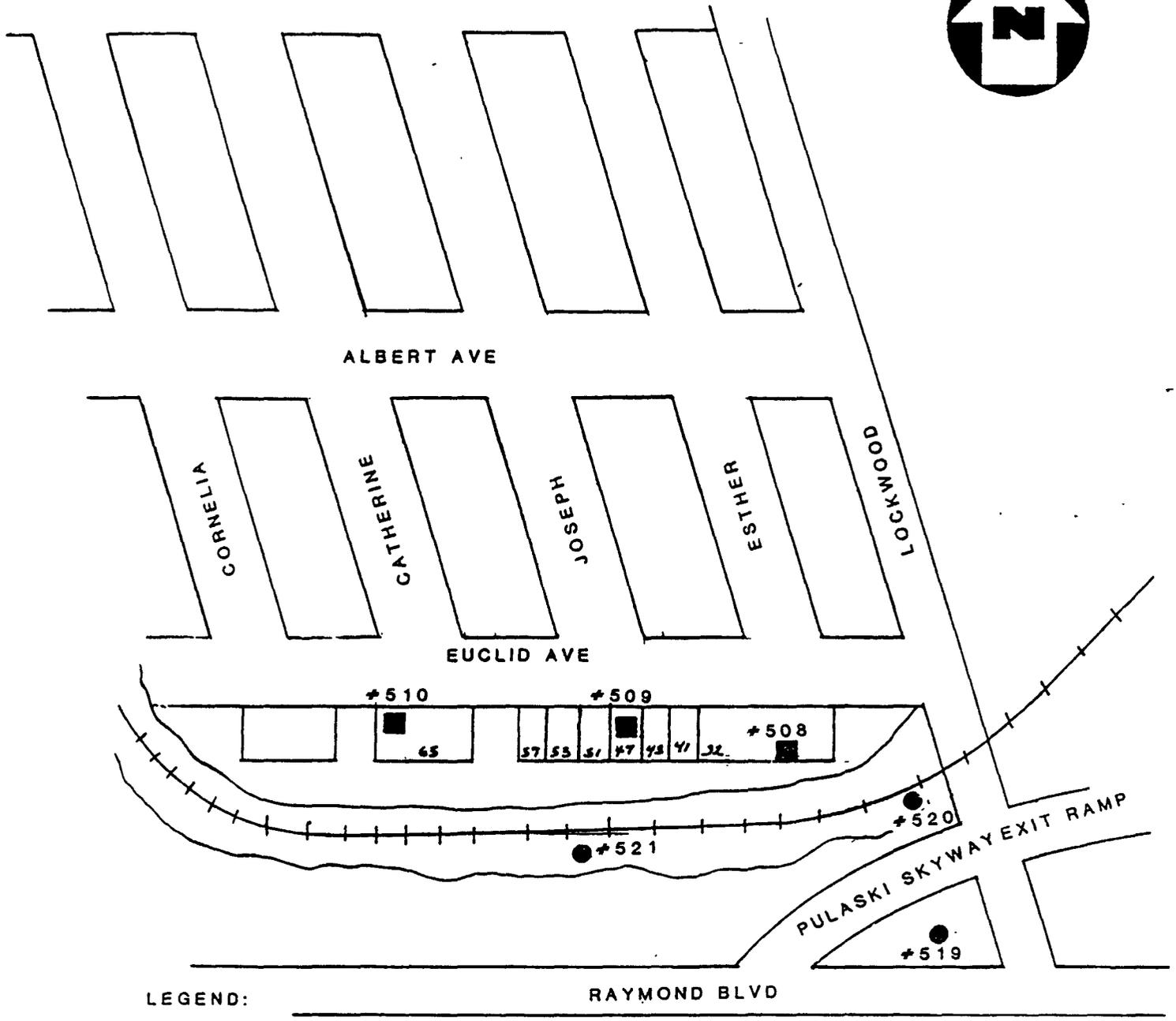
**NEWARK, N.J.**



SAMPLE LOCATION MAP  
 PUBLIC CONTACT AREA  
 PHASE - 2  
 80 LISTER AVE  
 NEWARK, N.J.

15-1





SAMPLE LOCATION MAP  
80 LISTER AVE  
NOT TO SCALE

FIGURE 15-2



**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
PUBLIC CONTACT AREAS PHASE II  
7/26/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PUBLIC CONTACT AREAS PHASE II  
7/26/83

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
520	Middle of rail-road tracks at at corner of Euclid and Lockwood Ave. Approx. 20 ft. west of junction		Soil	6.5	
521	Southside of rail-tracks 3RR ties east of RR nail #6+00R. 6 fence posts west of fence corner on south side of tracks		Soil	2.5	

## NOTES:

- (a) 18 samples were collected.
- (b) 11 samples had no detection of TCDD.
- (c) 5 samples were detected below 1.00 ppb TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**PUBLIC CONTACT AREAS PHASE II**  
**7/26/83**

**TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
PUBLIC CONTACT AREAS PHASE II  
7/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
501	Vacuum cleaner bag blank			ND	
502	78 Waydell Street	Buske	Vacuum bag	ND	
503	65 Waydell Street	Gorney	Vacuum bag	ND	
504	642 Ferry Street	Sieracki	Vacuum bag	ND	
505	23 Foundry Street	Blozen	Vacuum bag	NG	0.23
506	11 Foundry Street	Jachym	Vacuum bag	NG	ND
507	QA Reference Material A (Native)			7.5	
508	Reddaway Mfg. Co. 32 Euclid Ave.	Vince Lacaruba	Air filter	NG	ND
509	Continental Snack	Tony Lombardi	Air filter	ND	
510	Enright Refining 65 Euclid Ave.	John McCormick	Air filter	0.35	
511	Unknown Blank			ND	
512	Lawn between #14 and #18 Waydell St. Approx. 2 ft. from first fence pole closest to #18	Flynn #14 Waydell St.	Soil	0.65	
513	13 Foundry Street Approx. 2" from center of pole	Farley	Soil	ND	
514	59 Waydell Street Approx. center of front yard. Approx. 6" from white fence	Kraly	Soil	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont.)  
ALL SAMPLES INCLUDING QA/QC  
PUBLIC CONTACT AREAS PHASE II  
7/26/83

SAMPLE NUMBER	SAMPLE LOCATION	RESIDENT	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
				Initial	Repeat
515	QA Reference Material A (Native)			5.7	
516	72 Waydell Street Approx. 4" from center of basement window	Lebo	Soil	ND ND duplicate	
517N	Known Blank (Matrix Spike)			0.95	1.22
518	30 Waydell Street Approx. 6" from fence between gate and front porch	Wesolowski	Soil	ND	
519	Grass triangle median At intersection of Raymond Blvd and Pulaski Skyway exit ramp. Approx. 50 ft. south of "Reward Sign"		Soil	ND	
520	Middle of railroad tracks at corner of Euclid and Lockwood Ave. Approx. 20 ft. west of junction		Soil	6.5	
521	Southside of railroad tracks 3RR ties east of RR nail #6+00R. 6 fence posts west of fence corner on south side of tracks		Soil	2.5	
523	Corner of yard of 17 Foundry Street	Mrs. Costa	Soil	NG	0.29 0.24 duplicate ND
524	Corner of Foundry St. and Raymond Blvd. 30 ft. west of light pole 85V		Soil	0.92	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**LOCKWOOD STREET**  
**TAT VACUUMING REFUSE**  
**80 LISTER AVENUE**  
**NEWARK, N.J.**

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
LOCKWOOD STREET TAT VACUUMING REFUSE  
8/10/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
LOCKWOOD STREET TAT VACUUMING REFUSE  
8/10/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 4 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**LOCKWOOD STREET TAT VACUUMING REFUSE**  
**8/10/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
LOCKWOOD STREET TAT VACUUMING REFUSE  
8/10/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
586	10-lb. bag of weeds	ND	
587	30-lb. bag of rocks	ND	
588	25-lb. bag of papers, wood, glass, leaves, cans, cardboard	0.91	
591	15-lb. bag of dirt, gravel, and weeds	NG	
592	Unknown Blank	ND	
603	QA Reference Material A (Native)	5.0	
604	Unknown Blank	ND	
660N	Known Blank (Matrix Spike)	1.08	
664	QA Reference Material A (Native)	4.9	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

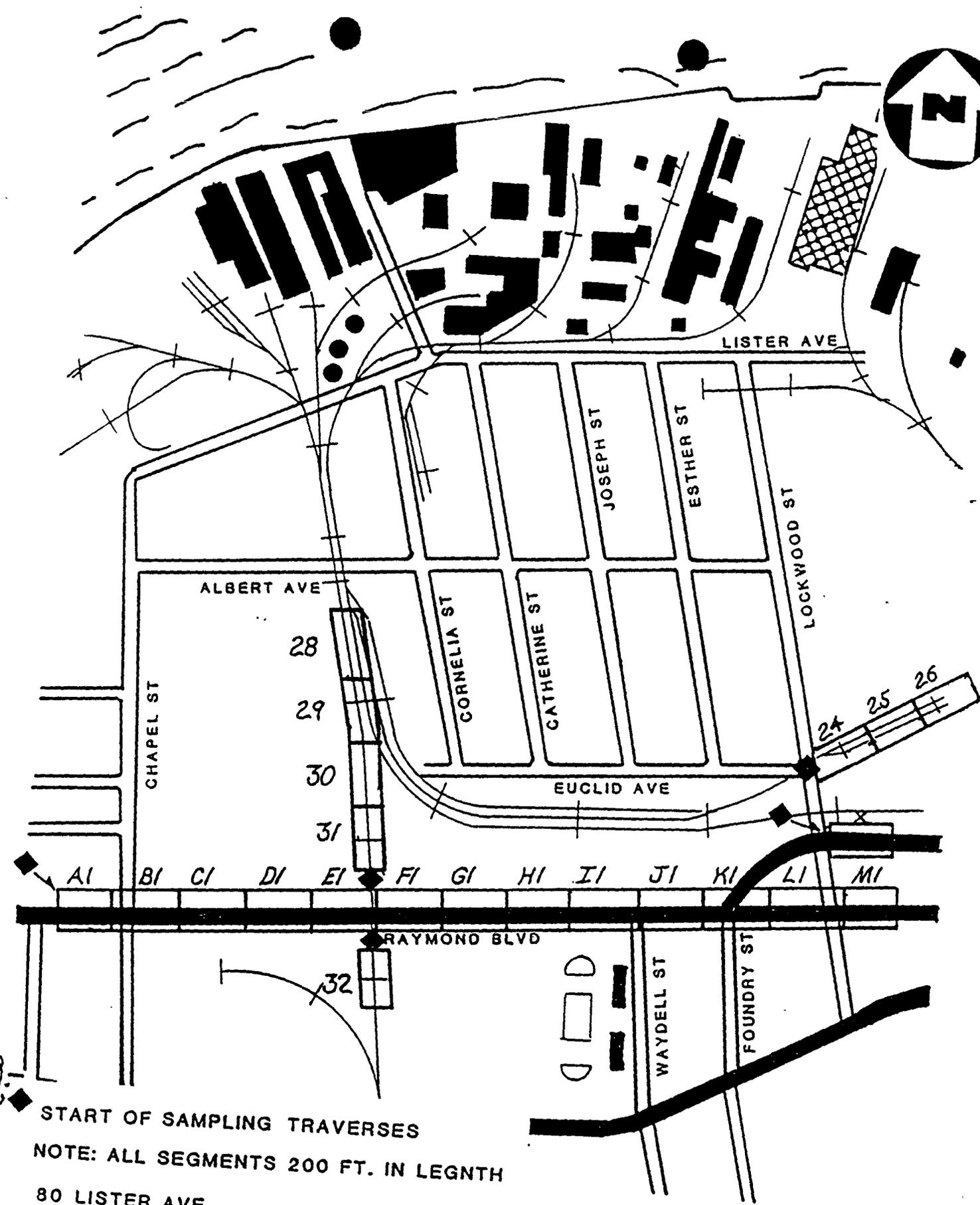
BA = Being Analyzed

**TRANSPORTATION ROUTES**

**PHASE II**

**80 LISTER AVENUE**

**NEWARK, N.J.**



START OF SAMPLING TRAVERSES  
 NOTE: ALL SEGMENTS 200 FT. IN LENGTH

80 LISTER AVE  
 NEWARK, NJ

SAMPLING SEGMENTS LOCATION MAP

17-1

FIGURE 17-1



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/18/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES PHASE II  
RAILROAD TRACKS SOUTHWEST OF 80 LISTER AVENUE  
8/11/83 - 8/18/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 10 samples were collected.
- (b) 9 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.

TABLE 2  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES PHASE II  
RAILROAD TRACKS SOUTHEAST OF 80 LISTER AVENUE  
8/11/83 - 8/18/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 6 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 4 samples were detected below 1.00 ppb TCDD.

TABLE 3  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 TRANSPORTATION ROUTES PHASE II  
 RAYMOND BOULEVARD  
 8/11/83 - 8/18/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
635	Raymond Blvd. - Segment "C1" (B) 30' from "0"	1.1	
646	Raymond Blvd. - Segment "I1" (B) 80' from "0"	1.1	
652	Raymond Blvd. - Segment "J1" (B) - 84' from "0"	1.2	
655	Raymond Blvd. - Segment "K1" (B) - 60' from "0"	1.1	
663	Raymond Blvd. - Segment "K1" (B) 45' from "0"	1.7	
667	Raymond Blvd. - Segment "L1" (R) 196' from "0"	4.3	
668	Raymond Blvd. - Segment "M1" (B) 60' from "0"	2.1	

NOTES:

- (a) 26 samples were collected.
- (b) 10 samples had no detection of TCDD.
- (c) 9 samples were detected below 1.00 ppb TCDD.

TABLE 4  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES PHASE II  
PULASKI SKYWAY OFF-RAMP  
8/11/83 - 8/18/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
669	Pulaski Skyway - Segment "X1" (B) 110' from "0"	3.5	
666	Pulaski Skyway - Segment "X1" (R) 182' from "0"	1.5	

NOTES:

- (a) 2 samples were collected.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**TRANSPORTATION ROUTES PHASE II**  
**8/11/83 - 8/18/83**

TABLE 5  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE DESCRIPTIONS

"O" denotes end point of particular segment closest to the start of the sampling traverse.

(R) denotes sample taken at a random distance from "O".

(B) denotes sample taken at a biased distance from "O".

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
602	Unknown Blank	ND	
605	R.R. Tracks - Segment "25" (R) 34' from "O"	ND	
606	R.R. Tracks - Segment "24" (R) 34' from "O"	0.35 0.32 duplicate	
607	QA Reference Material A (Native)	6.0	
608	R.R. Tracks - Segment "26" (B) 164' from "O"	NG	0.78
609	R.R. Tracks - Segment "25" (B) 141' from "O"	0.17	
610	R.R. Tracks - Segment "26" (R) 20' from "O"	0.94	
611	R.R. Tracks - Segment "30" (B) 40' from "O"	0.33	
612	R.R. Tracks - Segment "24" (B) 64' from "O"	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 5 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
613N	Known Blank (Matrix Spike)	1.04	
614	R.R. Tracks - Segment "31" (B) 60' from "O"	ND	
615	R.R. Tracks - Segment "32" (B) 150' from "O"	ND	
616	R.R. Tracks - Segment "32" (R) 84' from "O"	ND	
617	R.R. Tracks - Segment "28" (B) 30' from "O"	ND	
618	QA Reference Material A (Native)	5.2	
619	R.R. Tracks - Segment "29" (B) 120' from "O"	ND	
620	R.R. Tracks - Segment "28" (R) 120' from "O"	ND	
621	R.R. Tracks - Segment "30" (R) 154' from "O"	ND	
622	R.R. Tracks - Segment "31" (R) 174' from "O"	ND	

ND = Not Detected

TABLE 5 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
623	R.R. Tracks - Segment "29" (R) 42' from "O"	ND	
630	Raymond Blvd. - Segment "A1" (R) 172' from "O"	ND	
631N	Known Blank (Matrix Spike)	1.05	
632	Raymond Blvd. - Segment "A1" (B) 48' from "O"	ND	
633	Raymond Blvd. - Segment "C1" (R) 156' from "O"	ND	
634	Raymond Blvd. - Segment "B1" (B) 132' from "O"	ND	
635	Raymond Blvd. - Segment "C1" (B) 30' from "O"	1.1	
636	Raymond Blvd. - Segment "B1" (R) 66' from "O"	0.56	
637	QA Reference Material A (Native)	5.3	
638	Raymond Blvd. - Segment "F1" (B) 155' from "O"	ND	

ND = Not Detected

TABLE 5 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
639	Unknown Blank	ND	
640	Raymond Blvd. - Segment "E1" (B) 100' from "O"	ND	
641	Raymond Blvd. - Segment "D1" (R) 14' from "O".	ND	
642	Raymond Blvd. - Segment "F1" (R) 4' from "O"	ND	
643	Raymond Blvd. - Segment "E1" (R) 66' from "O"	0.45	
644	Raymond Blvd. - Segment "D1" (B) 105' from "O"	ND	
645	Raymond Blvd. - Segment "G1" (R) 17' from "O"	ND ND duplicate	
646	Raymond Blvd. - Segment "I1" (B) 80' from "O"	1.1	
647	Raymond Blvd. - Segment "H1" (R) 167' from "O"	0.20	
648	Raymond Blvd. - Segment "G1" (B) 165' from "O"	0.31	
649	Raymond Blvd. - Segment "H1" (B) 36' from "O"	0.17	

17-9

ND = Not Detected

TABLE 5 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
650	QA Reference Material A (Native)	5.9	
651	Raymond Blvd. - Segment "I1" (R) 24' from "O"	0.83	
652	Raymond Blvd. - Segment "J1" (B) - 84' from "O"	1.2	
654	Raymond Blvd. - Segment "J1" (R) 54' from "O"	0.63	
655	Raymond Blvd. - Segment "K1" (B) 60' from "O"	1.1	
656	Raymond Blvd. - Segment "K1" (R) 90' from "O"	0.81	
663	Raymond Blvd. - Segment "L1" (B) 45' from "O"	1.7	
664	QA Reference Material A (Native)	4.9	
665	Raymond Blvd. - Segment "M1" (R) 136' from "O"	0.83	
666	Pulaski Skyway - Segment "X1" (R) 182' from "O"	1.5	

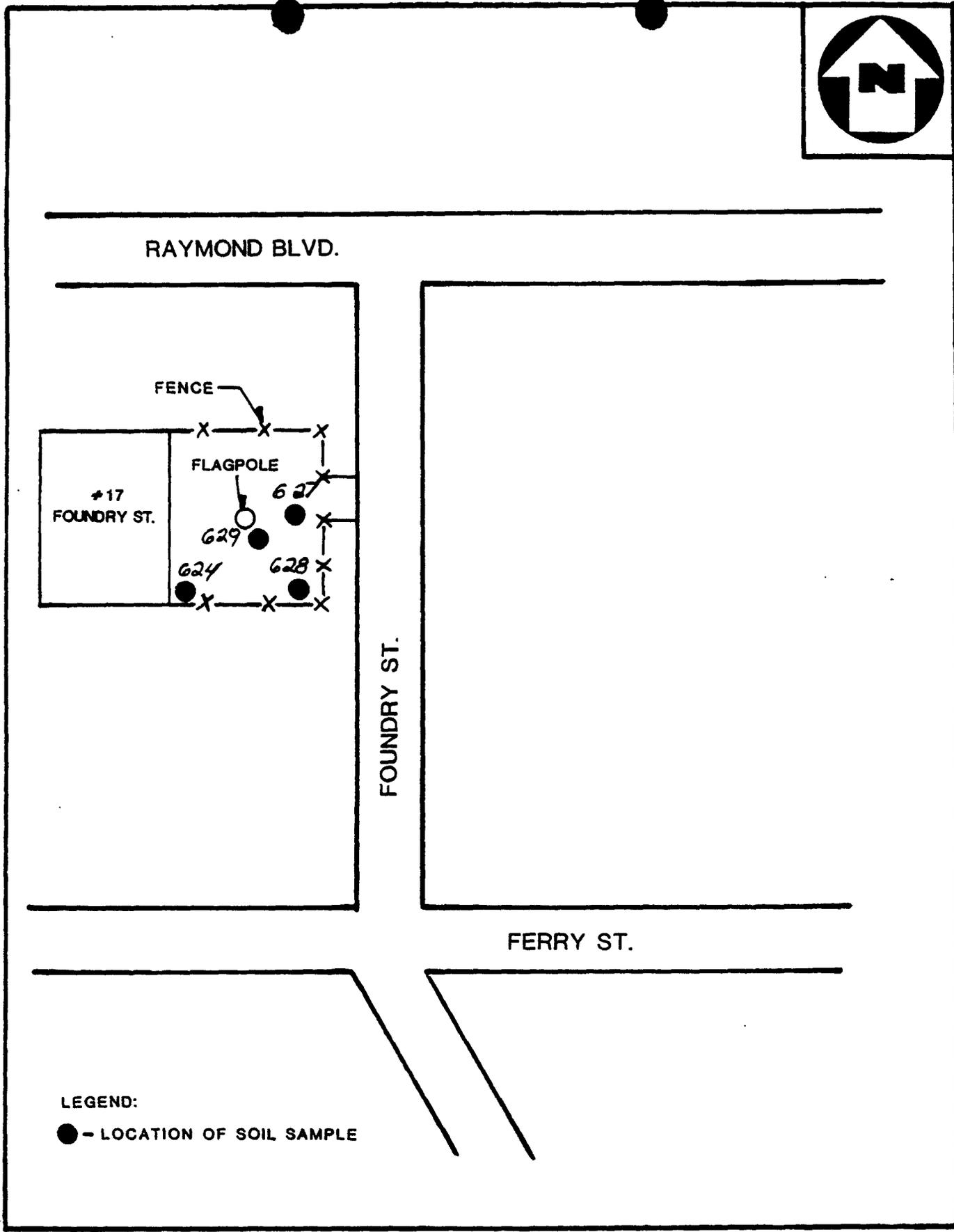
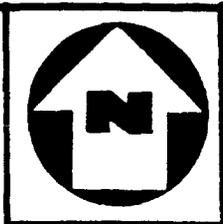
TABLE 5 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE II  
8/11/83 - 8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
667	Raymond Blvd. - Segment "L1" (R) 196' from "O"	4.3	
668	Raymond Blvd. - Segment "M1" (B) 60' from "O"	2.1	
669	Pulaski Skyway - Segment "X1" (B) 110' from "O"	3.5	

**17 FOUNDRY STREET**

**80 LISTER AVENUE**

**NEWARK, N.J.**



LEGEND:  
● - LOCATION OF SOIL SAMPLE

17 FOUNDRY ST.  
80 LISTER AVE.  
NEWARK, N.J.

### SAMPLE LOCATION MAP

18-1

FIGURE 18-1



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
17 FOUNDRY STREET  
8/16/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
17 FOUNDRY STREET  
8/16/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 4 Samples were collected.
- (b) 2 Samples were not detected.
- (c) 2 Samples were detected below 1.00 ppb TCDD.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**17 FOUNDRY STREET**  
**8/16/83**

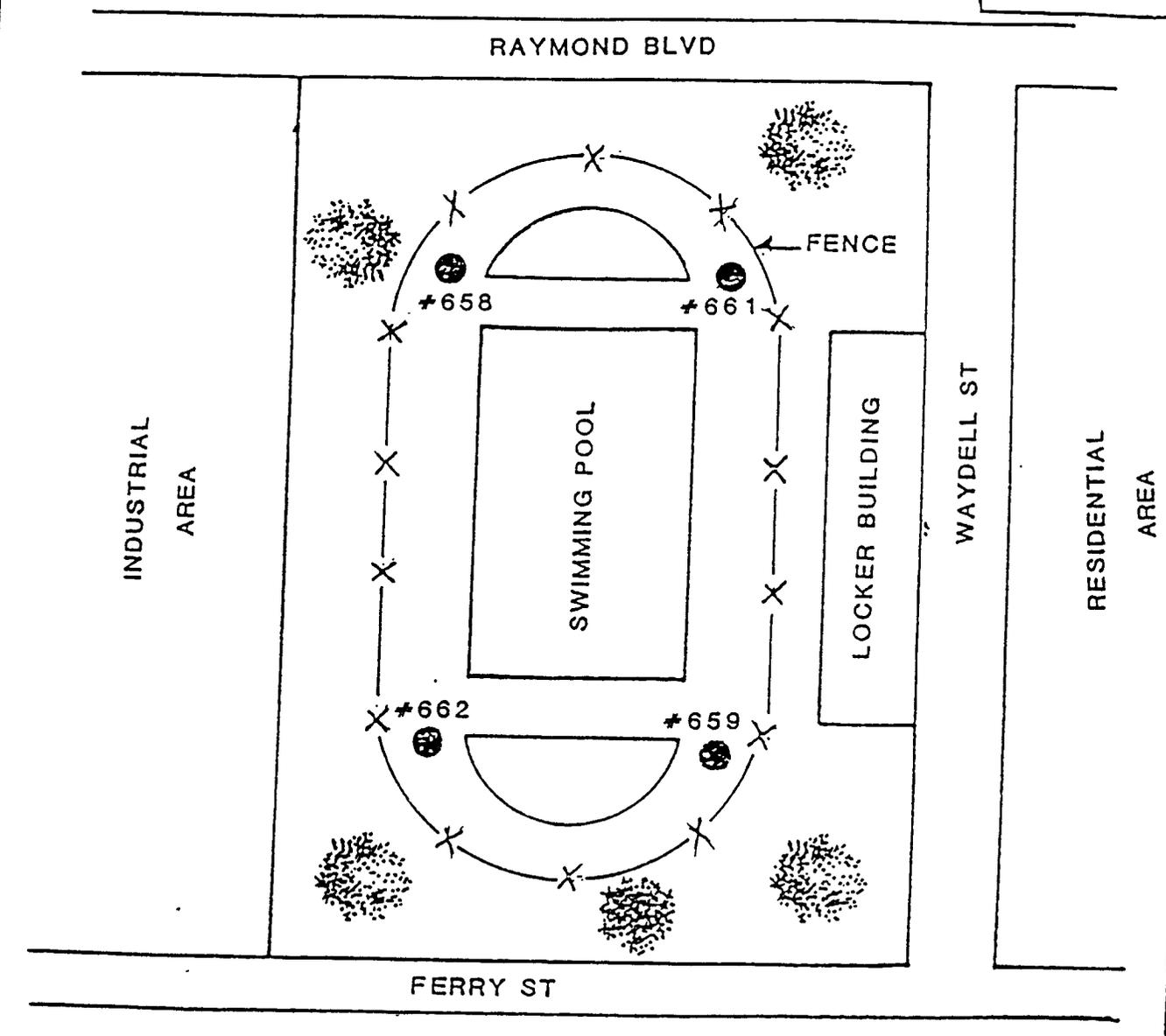
TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
17 FOUNDRY STREET  
8/16/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
624	17 Foundry Street - Grab Soil	0.11	
625	QA Reference Material A (Native)	6.0	
626N	Known Blank (Matrix Spike)	0.94	
627	17 Foundry Street - Grab Soil	0.1 ND duplicate	
628	17 Foundry Street - Grab Soil	ND	
629	17 Foundry Street - Grab Soil	ND	
657	Unknown Blank	ND	

ND = Not detected

**HAYES PARK EAST**  
**AFTER TAT CLEAN-UP**  
**80 LISTER AVENUE**  
**NEWARK, N.J.**

**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
HAYES PARK EAST AFTER TAT CLEAN-UP  
8/17/83**



LEGEND:  
⊗ - SWEEP SAMPLE

SAMPLE LOCATIONS  
HAYES PARK EAST

19-1

FIGURE 19-1



TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
HAYES PARK EAST AFTER TAT CLEAN-UP  
8/17/83

---

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

---

NOTES:

- (a) 4 samples were collected.
- (b) 3 samples had no detection of TCDD.
- (c) 1 sample was detected below 1.00 ppb TCDD.

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
HAYES PARK EAST AFTER TAT CLEAN-UP  
8/17/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
603	QA Reference Material A (Native)	5.0	
604	Unknown Blank	ND	
658	Northwest corner of pool	ND ND duplicate	
659	Southeast corner of pool	ND	
660N	Known Blank (Matrix Spike)	1.08	
661	Northeast corner of pool	ND	
662	Southwest corner of pool	NG	0.44
664	QA Reference Material A (Native)	4.9	

ND = Not Detected

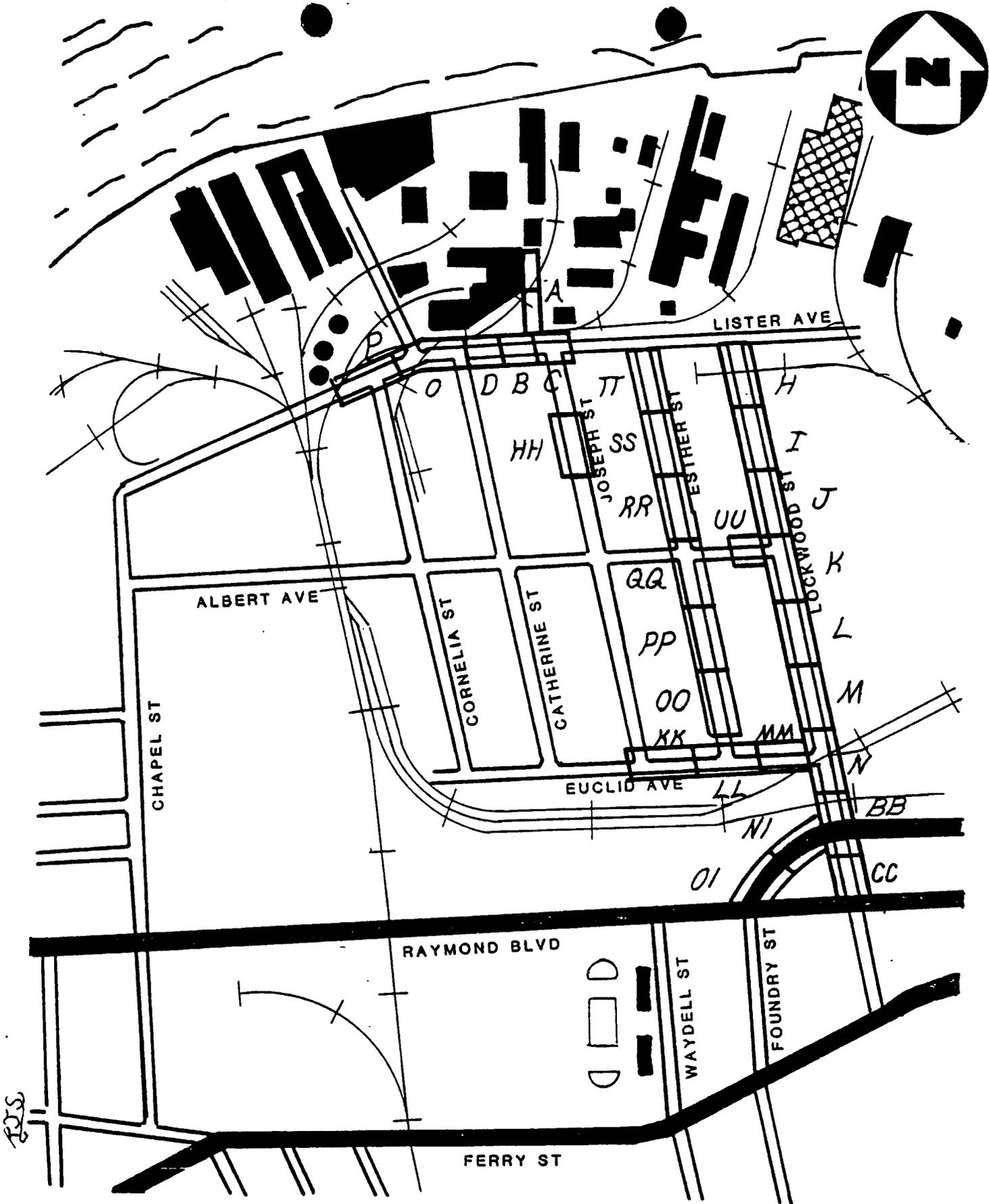
NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**HAYES PARK EAST AFTER TAT CLEAN-UP**  
**8/17/83**

**TRANSPORTATION ROUTES**  
**POST REMEDIAL ACTION**

**80 LISTER AVENUE**

**NEWARK, N.J.**



80 LISTER AVE  
 NEWARK, NJ  
 SAMPLING SEGMENTS LOCATION MAP

FIGURE 20-1

20-1



**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
TRANSPORTATION ROUTES POST REMEDIAL ACTION  
9/1/83**

TABLE 1 (cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES POST-REMEDIAL ACTION  
9/1/83

SAMPLE TYPE - SWEEPINGS OF ROADWAY SEDIMENT

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
681	Pulaski Skyway Off Ramp- Segment "N1" (R)-14' from "O"	NG	7.3
683	Pulaski Skyway Off Ramp- Segment "O1" (R)-67' from "O"	NG	2.3

NOTES:

- (a) 35 samples were collected.
- (b) 3 samples had no detection of TCDD.
- (c) 17 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (f) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.
- (g) "R" denotes samples taken at a random distance from "O". Distances supplied by random number chart.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**TRANSPORTATION ROUTES POST REMEDIAL ACTION**  
**9/1/83**

**TABLE I**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**TRANSPORTATION ROUTES POST-REMEDIAL ACTION**  
**9/1/83**

**SAMPLE TYPE - SWEEPINGS OF ROADWAY SEDIMENT**

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
703	80 Lister Ave. Driveway - Segment "A" (R)-91' from "O"	2.1	
704	80 Lister Ave. Driveway - Segment "A" (R)-60' from "O"	3.5	
711	80 Lister Ave. - Segment "B" (R) - 90' from "O"	NG	2.4
712	63 Joseph St.-Segment "HH" (R)-15' north of telephone pole	1.4	
708	63 Joseph St.-Segment "HH" (R)-20' south of telephone pole	1.2	
672	Lockwood St.-Segment "K" (R)-168' from "O"	NG	1.3
675	Lockwood St.-Segment "M" (R)-80' from "O"	NG	NG 3.1
678	Lockwood St.-Segment "L" (R)-170' from "O"	NG	1.2
679	Lockwood ST.-Segment "N" (R)-2' from "O"	NG	2.7
673	Lockwood St.-Segment "BB" (R)-2' from "O"	NG	6.0
682	Lockwood ST.-Segment "CC" (R)-46' from "O"	NG	NG 1.8
685	Euclid Ave.-Segment "LL" (R)-96' from "O"	NG	2.6

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 2**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES POST-REMEDIAL ACTION**  
**9/1/83**

**SAMPLE TYPE - SWEEPINGS OF ROADWAY SEDIMENT**

"O" denotes end point of segment closest to the site as one moves outward along the transportation route.

"R" denotes samples taken at a random distance from "O". Distances supplied by random number chart.

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
670	Lockwood St.-Segment "H" (R)-122' from "O"	NG	0.30
671	Lockwood St.-Segment "I" (R)-68' from "O"	NG	0.50 0.51 duplicate
672	Lockwood St.-Segment "K" (R)-168' from "O"	NG	1.3
673	Lockwood St.-Segment "BB" (R)-2' from "O"	NG	6.0
674	Lockwood St.-Segment "J" (R)-7' from "O"	NG	0.39
675	Lockwood St.-Segment "M" (R)-80' from "O"	NG	NG 3.1
676N	Known Blank (Matrix Spike)	NG	1.3
677	QA Reference Material A (Native)	NG	7.6
678	Lockwood St.-Segment "L" (R)-170' from "O"	NG	1.2
679	Lockwood St.-Segment "N" (R)-166' from "O"	NG	2.7

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES POST-REMEDIAL ACTION  
9/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
680	Euclid Ave. - Segment "MM". (R)-114' from "O"	NG	0.76
681	Pulaski Skyway Off Ramp - Segment "N1" (R)-14' from "O"	NG	7.3
682	Lockwood St. - Segment "CC" (R)-46' from "O"	NG	NG 1.8
683	Pulaski Skyway Off Ramp - Segment "O1" (R)-67' from "O"	NG	2.3
684	Euclid Ave.-Segment "KK" (R)-8' from "O"	NG	ND
685	Euclid Ave.-Segment "LL" (R)-96' from "O"	NG	2.6
686	Unknown Blank	NG	ND
687	Esther St.-Segment "OO" (R)-186' from "O"	NG	0.34
688	Esther St.-Segment "PP" (R)-158' from "O"	NG	0.26
689	Esther St.-Segment "SS" (R)-158' from "O"	NG	0.32
690	Esther St.-Segment "RR" (R)-196' from "O"	NG	0.22

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES POST-REMEDIAL ACTION  
9/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
691	Albert Ave.-Segment "UU" (R)-150' from "O"	NG	0.48
692	Esther St.-Segment "QQ" (R)-22' from "O"	NG	0.16
693	QA Reference Material A (Native)	NG	7.8
694	Unknown Blank	ND ND duplicate	
695	Lister Ave.-Segment "C" (R)-182' from "O"	0.96	
696	Lister Ave.-Segment "B" (R)-182' from "O"	NG	
697	Esther St.-Segment "TT" (R)-96' from "O"	0.41	
698	Lister Ave.-Segment "D" (R)-90' from "O"	NG	ND
699	Lister Ave.-Segment "P" (R)-81' from "O"	ND	
700	QA Reference Material A (Native)	6.6	
701	Lister Ave.-Segment "O" (R)-146' from "O"	NG	0.12
702	Lister Ave.-Segment "C" (R)-44' from "O"	0.81	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES POST-REMEDIAL ACTION  
9/1/83

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
703	80 Lister Ave. Driveway - Segment "A" (R)-91' from "O"	2.1	
704	80 Lister Ave. Driveway - Segment "A" (R)-60' from "O"	3.5	
705	80 Lister Ave. Driveway - Segment "A" (R)-14' from "O"	0.67	
706	80 Lister Ave. Driveway - Segment "A" (R)-48' from "O"	0.46	
707	80 Lister Ave. Driveway - Segment "A" (R)-23' from "O"	0.69	
708	63 Joseph St.-Segment "HH" (R)-20' south of telephone pole	1.2	
709	QA Reference Material A (Native)	6.8	
710N	Known Blank (Matrix Spike)	1.25	
711	Lister Ave.-Segment "B" (R)-90' from "O"	NG	2.4
712	63 Joseph St.-Segment "HH" (R)-15' north of telephone pole	1.4	

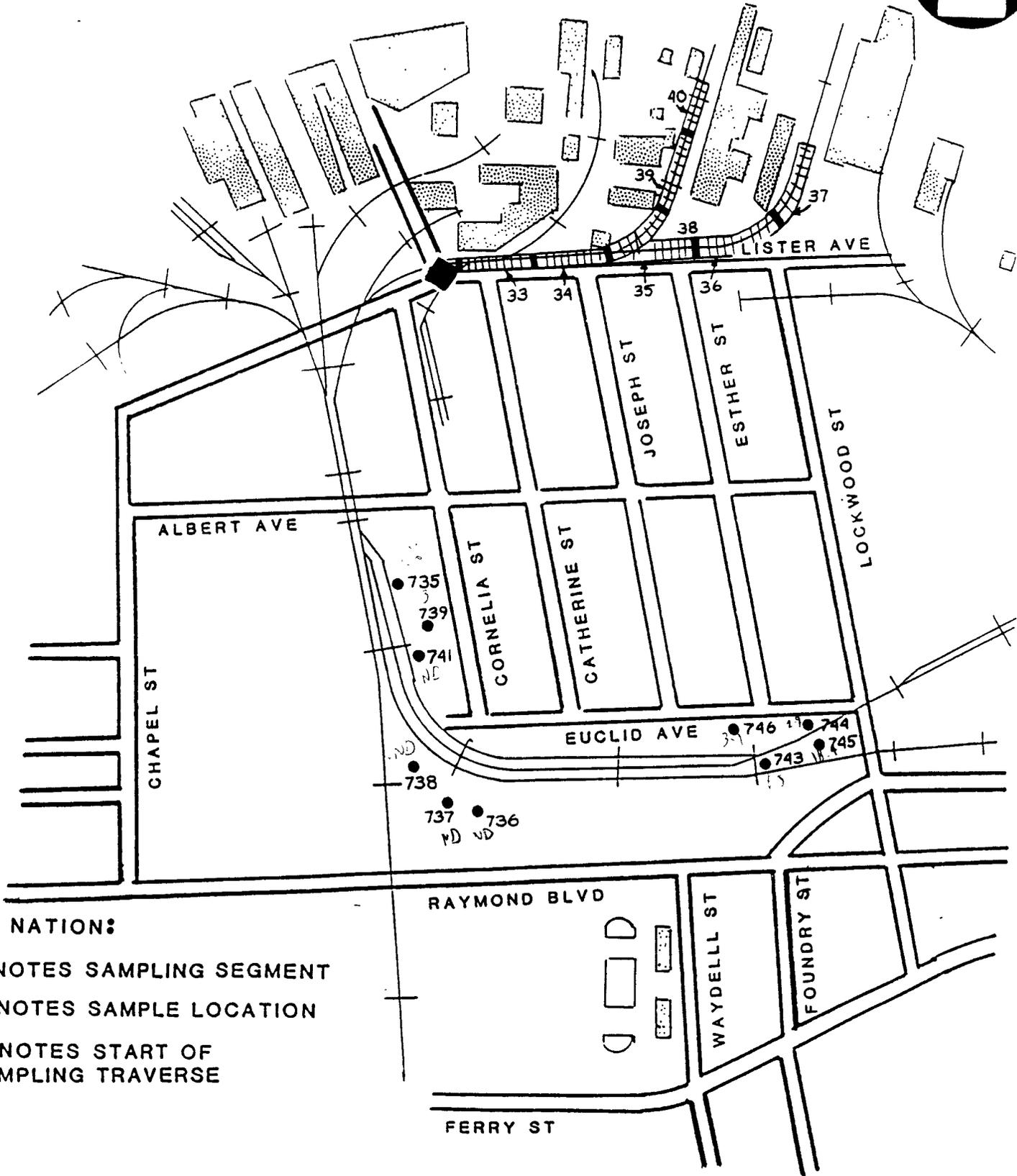
NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TRANSPORTATION ROUTES**

**PHASE III**

**80 LISTER AVENUE**

**NEWARK, N.J.**



**EXPLANATION:**

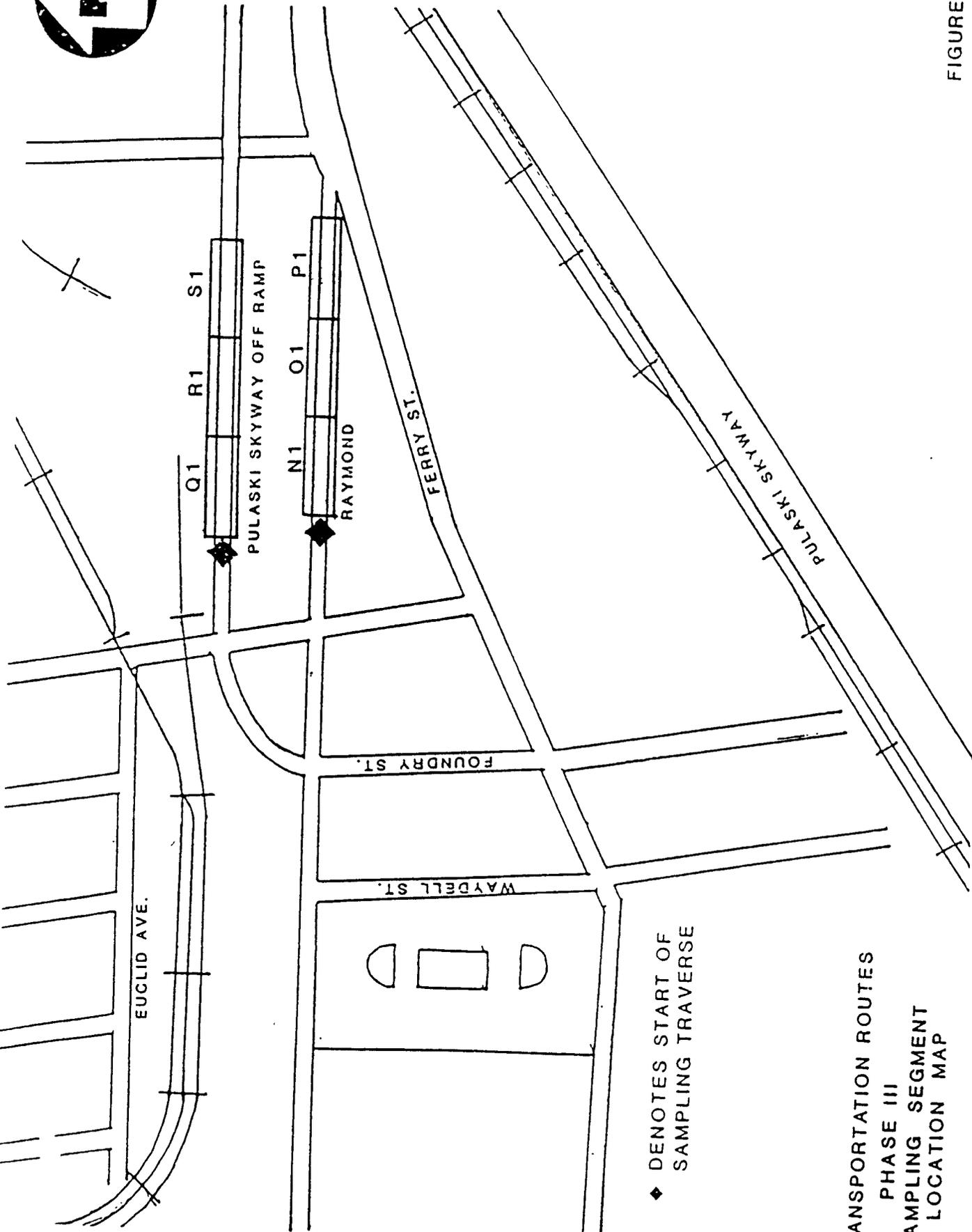
-  DENOTES SAMPLING SEGMENT
- DENOTES SAMPLE LOCATION
- ◆ DENOTES START OF SAMPLING TRAVERSE

SAMPLE LOCATION MAP  
 TRANSPORTATION ROUTES  
 PHASE III  
 80 LISTER AVE  
 NEWARK, NJ

22-1

FIGURE 22-1





◆ DENOTES START OF SAMPLING TRAVERSE

TRANSPORTATION ROUTES  
 PHASE III  
 SAMPLING SEGMENT  
 LOCATION MAP

80 LISTER AVE  
 NEWARK, NJ

22-2

FIGURE 22-2



**SUMMARY OF  
SAMPLES RESULTS  
80 LISTER AVENUE  
TRANSPORTATION ROUTES PHASE III  
9/15/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
TRANSPORTATION ROUTES PHASE III  
9/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION	
			(ppb)	
			Initial	Repeat
713	Railroad, Segment 34 (Duralac) (R) - 68' from "O"	Grab Soil	1.5	
743	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	6.5	
744	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	2.9	
745	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	18.4	
746	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	3.1 3.0 duplicate	
725	Pulaski Skyway, Segment Q1 (B) - 53' from "O"	Sweep	3.5	

NOTES:

- (a) 30 samples were collected.
- (b) 13 samples had no detection of TCDD.
- (c) 10 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**TRANSPORTATION ROUTES PHASE III**  
**9/15/83**

**TABLE 2**  
**ALL SAMPLES INCLUDING QA/QC**  
**TRANSPORTATION ROUTES PHASE III**  
**9/15/83**  
**SAMPLE DESCRIPTIONS**

"O" Denotes end point of segment closest to the site as one moves outward along the transportation route.  
 (R) Denotes sample taken at a random distance from "O". Distances supplied by random number chart.  
 (B) Denotes sample taken at a biased distance from "O".  
 All sampling segments are 200' in length with the exception of segment 40, which is 100' in length and terminates at the Thomasset Color's property line.

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
713	Railroad, Segment 34 (Duralac) (R) - 68' from "O"	Grab Soil	1.5	
714	Railroad, Segment 33 (Duralac) (R) - 122' from "O"	Grab Soil	NG	
715	Railroad, Segment 40 (SCA) (R) - 80' from "O"	Sweep	ND	
716	Railroad, Segment 38 (SCA) (R) - 168' form "O"	Sweep	ND	
717	Railroad, Segment 35 (SCA) (R) - 74' from "O"	Sweep	0.13	
718	Unknown Blank	NA	ND	
719	Railroad, Segment 39 (SCA) (R) - 170' from "O"	Sweep	ND	
720	Pulaski Skyway, Segment R1 (B) - 145' from "O"	Sweep	0.35	
721	QA Reference Material A (Native)	NA	8.8	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

NA = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE III  
9/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION	
			(ppb)	
			Initial	Repeat
722	Pulaski Skyway, Segment R1 (R) - 22' from "O"	Sweep	0.47	
723	Pulaski Skyway, Segment S1 (B) - 57' from "O"	Sweep	0.09	
724	Pulaski Skyway Segment S1 (R) - 196' from "O"	Sweep	ND	
725	Pulaski Skyway, Segment Q1 (B) - 53' from "O"	Sweep	3.5	
726	Pulaski Skyway, Segment Q1 (R) - 186' from "O"	Sweep	0.71 0.58 duplicate	
727N	Known Blank (Matrix Spike)	NA	1.37	
728	Raymond Blvd., Segment O1 (R) - 158' from "O"	Sweep	ND	
729	Raymond Blvd., Segment O1 (R) - 63' from "O"	Sweep	ND	
730	Raymond Blvd., Segment P1 (R) - 192' from "O"	Sweep	ND	
731	Raymond Blvd., Segment P1 (B) - 46' from "O"	Sweep	ND	
732	Q.A. Reference Material F (Native)	NA	1.8	
733	Raymond Blvd. Segment N1 (B) - 05' from "O"	Sweep	0.19	

ND = Not Detected  
NA = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE III  
9/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION	
			(ppb)	
			Initial	Repeat
734	Raymond Blvd., Segment N1 (R) - 150' from "O"	Sweep	0.13	
735	Adjacent to Tarped R.R. Spur West of Cornelia St.	Soil	0.16	
736	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	ND	
737	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	ND	
738	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	ND	
739	Adjacent to Tarped R.R. Spur West of Cornelia St.	Soil	0.13	
740	QA Reference Material "A" (Native)	NA	8.9	
741	Adjacent to Tarped R.R. Spur West of Cornelia St.	Soil	ND	
742N	Known Blank (Matrix Spike)	NA	1.42	
743	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	6.5	
744	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	2.9	

ND = Not Detected  
NA = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
TRANSPORTATION ROUTES PHASE III  
9/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
745	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	18.4	
746	Adjacent to Tarped R.R. Spur South of Euclid Ave.	Soil	3.1 3.0 duplicate	
748	Railroad, Segment 37 (Ben-Moore) (R) - 128' from "O"	Sweep	0.18	
749	Railroad, Segment 36 (SCA Gate) (R) - 63' from "O"	Sweep	ND	
750	Q.A. Reference Material F (Native)	NA	2.0	
751	Unknown Blank	NA	ND	

ND = Not Detected  
NA = Not Applicable

**INDUSTRIAL AREAS**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
INDUSTRIAL AREAS  
9/16/83 and 9/26/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
INDUSTRIAL AREAS  
9/16/83 & 9/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
755	Sherwin-Williams	Sweep	1.59	

NOTES:

- (a) 11 samples were collected.
- (b) 4 samples had no detection of TCDD.
- (c) 5 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**INDUSTRIAL AREAS**  
**9/16/83 and 9/26/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
INDUSTRIAL AREAS  
9/16/83 & 9/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
747	Benjamin-Moore	Sweep	ND	
752	Q.A. Reference Material "A" (Native)	NA	8.20	
753N	Known Blank (Matrix Spike)	NA	1.28	
754	Sherwin-Williams	Sweep	ND	ND duplicate
755	Sherwin-Williams	Sweep	1.59	
756	Benjamin-Moore	Sweep	ND	
757	Benjamin-Moore	Sweep	0.14	
758	Benjamin-Moore	Sweep	0.51	
759	Benjamin-Moore	Sweep	ND	
760	Q.A. Reference Material "F" (Native)	NA	1.52	
825	Unknown Blank	NA	ND	
826	Sherwin-Williams	Grab Soil	0.35	
827	Sherwin-Williams	Sweep	NG	
828	Sherwin-Williams	Sweep	0.11	
829	Sherwin-Williams	Sweep	0.45	

NA = Not Applicable

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SELECTED GRID PHASE II**

**80 LISTER AVENUE**

**NEWARK, N.J.**



**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
SELECTED GRID PHASE II  
9/20/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
SELECTED GRID PHASE II  
9/20/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
780	Grass Area North of Pulaski Skyway Off-Ramp	Grab Soil	5.8	
782	Grass Are North of Pulaski Skyway Off-Ramp	Grab Soil	5.7	
783	Recycled Fibers Corp., Lockwood Street	Sweep	4.3	
784	Exxon Station, Raymond Blvd. and Lockwood St.	Sweep	1.4	
773	Sidewalk, Lockwood St.	Sweep	3.5	
764	N.J. Transit Property, Ferry Street	Sweep	1.3	
765	N.J. Transit Property, Ferry Street	Grab Soil	2.3	
770	P & K Industries, Ferry & Foundry Sts.	Sweep	1.1	
761	N.J. Transit Property, Ferry Street	Sweep	1.9	

NOTES:

- (a) 20 samples were collected.
- (b) 5 samples had no detection of TCDD.
- (c) 5 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitor Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**SELECTED GRID PHASE II**  
**9/20/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID PHASE II  
9/20/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
761	N.J. Transit Property, Ferry St.	Sweep	1.9	
762	N.J. Transit Property, Ferry St.	Sweep	0.13	
763	N.J. Transit Property, Ferry St.	Sweep	0.21	
764	N.J. Transit Property, Ferry St.	Sweep	1.3	
765	N.J. Transit Property, Ferry St.	Grab Soil	2.3	
766	Q.A. Reference Material "A" (Native)	NA	7.0	
767	Unknown Blank	NA	ND	
768	P & K Industries, Ferry & Foundry Sts.	Sweep	ND	
769	P & K Industries, Ferry & Foundry Sts.	Grab Soil	ND	
770	P & K Industries, Ferry & Foundry Sts.	Sweep	1.1	
771	Abandoned R.R. Spur, South end of Foundry St.	Grab Soil	ND	
772	Sidewalk Median, South end of Foundry St.	Grab Soil	0.14	

ND = Not Detected  
NA = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
SELECTED GRID PHASE II  
9/20/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
773	Sidewalk, Lockwood St.	Sweep	3.5	
774N	Known Blank (Matrix Spike)	NA	1.4	
775	Q.A. Reference Material "F" (Native)	NA	2.0	
776	Backyard, #19 Foundry St.	Grab Soil	0.07 0.07 duplicate	
777	S.W. Corner of Intersection of Ferry and Foundry Sts.	Sweep	0.77	
778	S.W. Corner of Intersection of Ferry and Waydell Sts.	Sweep	ND	
779	Triangle Towing Services, Lockwood and Ferry Sts.	Sweep	ND	
780	Grass Area North of Pulaski Skyway Off-Ramp	Grab Soil	5.8	
781	Sunoco Station, Raymond Blvd.	Sweep	NG	
782	Grass Area North of Pulaski Skyway Off-Ramp	Grab Soil	5.7	
783	Recycled Fibers Corp., Lockwood St.	Sweep	4.3	
784	Exxon Station, Raymond Blvd. and Lockwood St.	Sweep	1.4	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

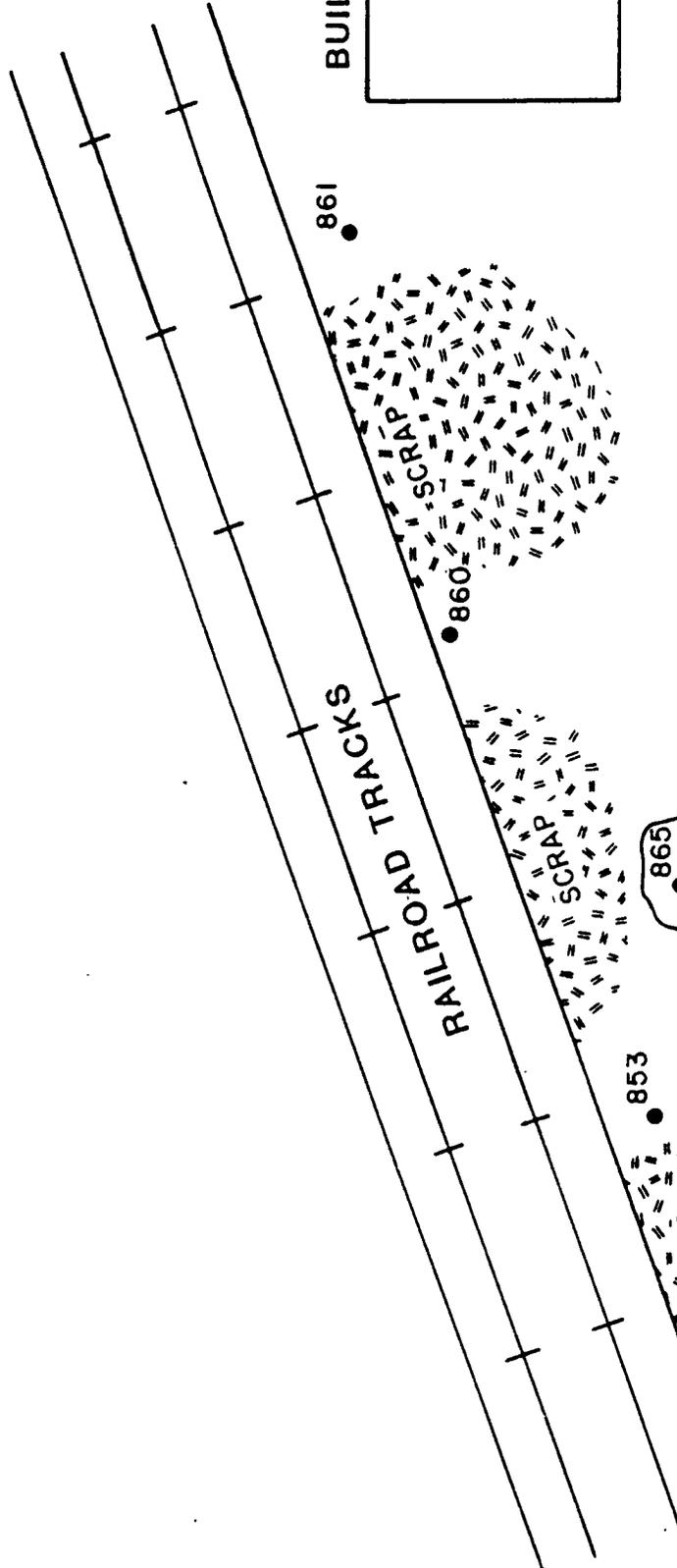
NA = Not Applicable

**BRADY IRON AND METALS**

**80 LISTER AVENUE**

**NEWARK, N.J.**

EUCLID ST.



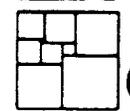
LOCKWOOD ST.

GATE

BUILDING

FIGURE 26-1

**SAMPLE LOCATION MAP**  
**BRADY IRON & METALS**  
**80 LISTER AVE.**  
**NEWARK, N.J.**



**NUS**  
CORPORATION



A Halliburton Company

M.S.

26-1

**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
BRADY IRON AND METALS  
10/10/83**

**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS**  
**10/10/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
851	Low spot in center of lot at west end of property	Grab Soil	NG	530
853	Adjacent to railroad tracks on North side of property. Appears to be the lowest accessible spot on the property.	Grab Soil	NG	160
855	Low spot with green discolored soil in northwest corner of property.	Grab Soil	NG	920
856	Green discolored soil adjacent to cut tanks in southwest corner of property.	Grab Soil	NG	3500 2900 duplicate
857	Low spot in southwest corner of property.	Grab Soil	NG	92
858	Center of lot, down grade from high spot of property.	Grab Soil	NG	150
860	Low spot adjacent to railroad tracks on north side of property.	Grab Soil	NG	500
861	Low spot adjacent to railroad tracks in northeast corner of property.	Grab Soil	NG	83

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 1 (cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
BRADY IRON AND METALS  
10/10/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
862	Low spot down grade from front gate at east end of property.	Grab Soil	NG	29
865	In pile of excavated (non-native) material at north side of property.	Grab Soil	1.9	

NOTES:

- (a) 10 samples were collected.
- (b) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**BRADY IRON AND METALS**  
**10/10/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS  
10/10/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
851	Low spot in center of lot at west end of property	Grab Soil	NG	530
852N	Known Blank (Matrix Spike)	NA	1.4	1.12 1.16
853	Adjacent to railroad tracks on North side of property. Appears to be the lowest accessible spot on the property.	Grab Soil	NG	160
854	QA Reference Material A (Native)	NA	8.1	
855	Low spot with green discolored soil in north-west corner of property.	Grab Soil	NG	920
856	Green discolored soil adjacent to cut tanks in southwest corner of property.	Grab Soil	NG	3500 2900 duplicate
857	Low spot in southwest corner of property.	Grab Soil	NG	92
858	Center of lot, down grade from high spot of property.	Grab Soil	NG	150
860	Low spot adjacent to railroad tracks on north side of property.	Grab Soil	NG	500
861	Low spot adjacent to railroad tracks in northeast corner of property.	Grab Soil	NG	53

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
NA = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS  
10/10/83

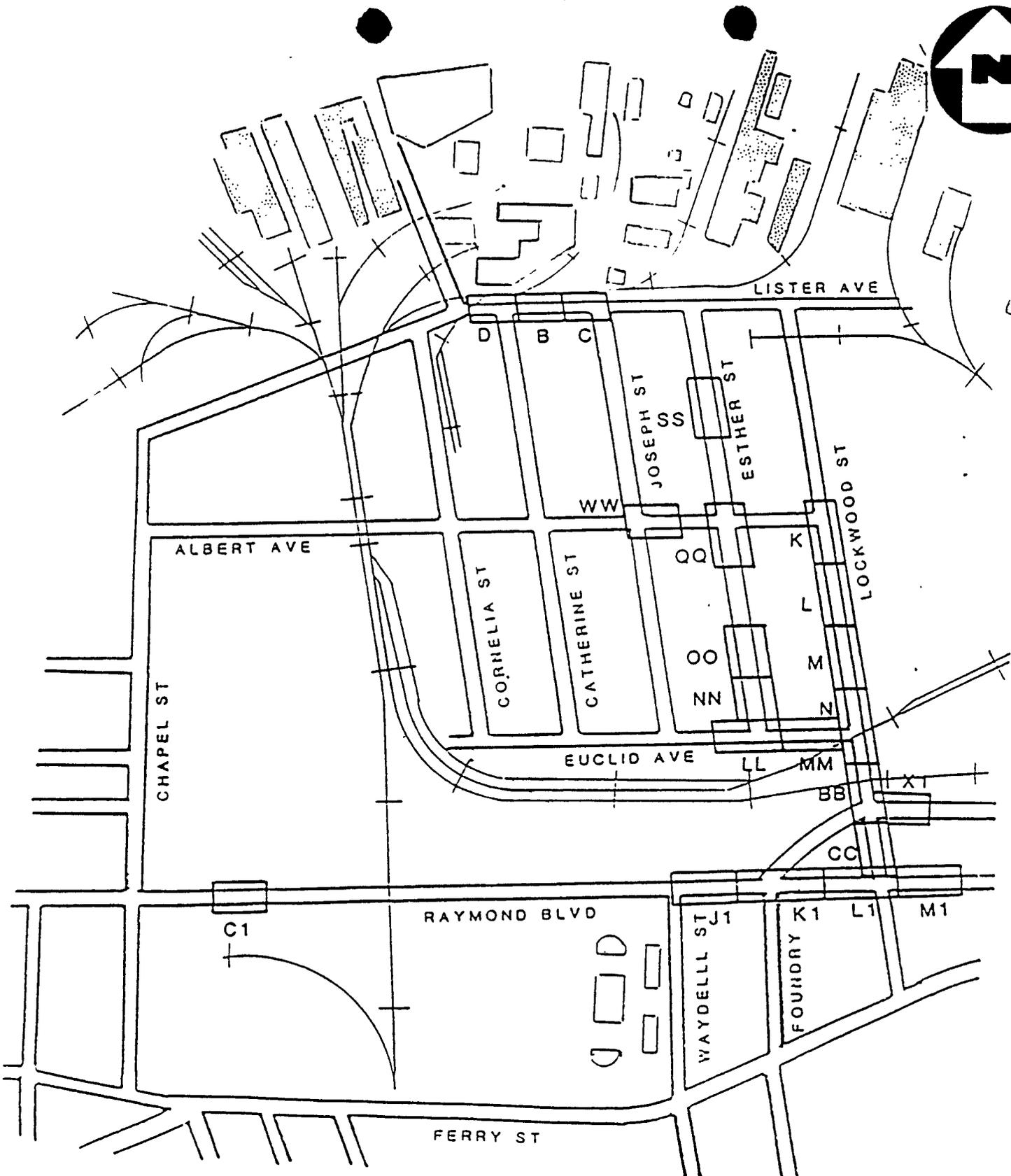
SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
862	Low spot down grade from front gate at east end of property.	Grab Soil	NG	29
863	Q/A reference material F (Native)	NA	1.6	
864	Unknown Blank	NA	ND ND duplicate	
865	In pile of excavated (non-native) material at north side of property.	Grab Soil	1.9	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
 ND = Not Detected  
 NA = Not Applicable

**PARKWAY SOIL**

**80 LISTER AVENUE**

**NEWARK, N.J.**



**SAMPLING SEGMENTS**  
**PARKWAYS SOIL SAMPLING**  
**80 LISTER AVE. NEWARK, N.J.**

(NOT TO SCALE) 28-1

FIGURE 28 - 1



**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
PARKWAY SOIL  
10/18/83**

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
890	Lockwood St. - Segment "M" East side of street 24' from "O".	1.0	
893	Lockwood St. - Segment "M" East side of street 157' from "O".	2.1	
907	Lockwood St. - Segment "N" West side of street 14' from "O".	1.8	
905	Lockwood St. - Segment "BB" West side of street 80' from "O".	9.8	
899	Lockwood St. - Segment "CC" West side of street 36' from "O".	7.4	
898	Lockwood St. - Segment "CC" East side of street 41' from "O".	2.3	
903	Lockwood St. - Segment "CC" West side of street 41' from "O".	3.5	
914	Euclid Ave. - Segment "LL" North side of street 92' from "O".	NG	2.0
913	Euclid Ave. - Segment "MM" North side of street 76' from "O".	NG	6.5
908	Euclid Ave. - Segment "MM" South side of street 76' from "O".	2.6	

TABLE 1 (cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PARKWAY SOIL  
10/18/83

## SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
916	Esther St. - Segment "OO" West side of street 154' from "O".	1.0	
915	Esther St. - Segment "NN" East side of street 25' from "O".	3.9	
922	Albert Ave. - Segment "WW" South side of street 54' from "O".	1.9	
912	Euclid Ave. - Segment "MM" North side of street 51' from "O".	NG	3.1
909	Euclid Ave. - Segment "MM" South side of street 51' from "O".	NG	9.4
894	Pulaski Skyway - Segment "X1" North side of street 196' from "O".	1.8	
933	Raymond Blvd. - Segment "C1" North side of street 30' from "O".	NG	3.4
886	Raymond Blvd. Segment "J1" North side of street 84' from "O".	NG	1.2

TABLE 1 (cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATIONS	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
895	Raymond Blvd. - Segment "L1". North side of street 196' from "O".	3.7	
897	Raymond Blvd. - Segment "M1". North side of street 60' from "O".	NG	1.4

NOTES:

- (a) 41 samples were collected.
- (b) 10 samples had no detection of TCDD.
- (c) 4 samples were detected below 1.00 ppb TCDD.
- (d) 7 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.
- (f) "O" denotes end point of segment closest to the site as one moves outward along the transportation route.

**SAMPLE RESULTS**

**80 LISTER AVENUE**

**PARKWAY SOIL**

**10/18/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE DESCRIPTIONS

"O" denotes end point of segment closest to the site as one moves outward along the transportation route.

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
884	Lockwood St. - Segment "M" West side of street 157' from "O".	NG	
886	Raymond Blvd. - Segment "J1" North side of street 84' from "O".	NG	1.2
887	QA Reference Material A (Native)	9.0	
888N	Known Blank (Matrix Spike)	1.09	
889	Raymond Blvd. - Segment "K1" North side of street 45' from "O".	0.99	
890	Lockwood St. - Segment "M" East side of street 24' from "O".	1.0	
891	Lockwood St. - Segment "L" West side of street 149' from "O".	ND	
892	Lockwood St. - Segment "K" West side of street 112' from "O".	ND	

ND = Not Detected.

NG = Did not pass EPA Monitoring Management QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
893	Lockwood St. - Segment "M" East side of street 157' from "O".	2.1	
894	Pulaski Skyway - Segment "X1" North side of street 110' from "O".	1.8	
895	Raymond Blvd. - Segment "L1" North side of street 196' from "O".	3.7	
896	Pulasky Skyway - Segment "X1" North side of street 182' from "O".	NG	
897	Raymond Blvd. - Segment "M1" North side of street 60' from "O".	NG	1.4
898	Lockwood St. - Segment "CC" East side of street 41' from "O".	2.3	
899	Lockwood St. - Segment "CC" West side of street 36' from "O".	7.4	
900	QA Reference Material F (Native)	NG	
901	Unknown Blank	NG	
902	Lockwood St. - Segment "CC" East side of street 36' from "O".	NG	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
903	Lockwood St. - Segment "CC" West side of street 41' from "O"	3.5	
904	Lockwood St. - Segment "N" West side of street 29' from "O".	ND ND duplicate	
905	Lockwood St. - Segment "BB" West side of street 80' from "O".	9.8	
906	Lockwood St. - Segment "BB" East side of street 80' from "O".	0.81	
907	Lockwood St. - Segment "N" West side of street 14' from "O".	1.8	
908	Euclid Ave. - Segment "MM" South side of street 76' from "O".	2.6	
909	Euclid Ave. - Segment "MM" South side of street 51' from "O".	NG	9.4
910	QA Reference Material A (Native)	7.0	
911	Unknown Blank	ND	
912	Euclid Ave. - Segment "MM" North side of street 51' from "O".	NG	3.1

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
913	Euclid Ave. - Segment "MM" North side of street 76' from "O".	NG	6.5
914	Euclid Ave. - Segment "LL" North side of street 92' from "O".	NG	2.0
915	Esther St. - Segment "NN" East side of street 25' from "O".	3.9	
916	Esther St. - Segment "OO" West side of street 154' from "O".	1.0	
917	Esther St. - Segment "OO" East side of street 154' from "O".	NG	
918	Esther St. - Segment "NN" West side of street 25' from "O".	ND	
919	Euclid Ave. - Segment "LL" South side of street 92' from "O".	NG	
920	Esther St. - Segment "QQ" West side of street 111' from "O".	ND ND duplicate	
921	Esther St. - Segment "QQ" East side of street 111' from "O".	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
922	Albert Ave. - Segment "WW" South side of street 54' from "O".	1.9	
923	Albert Ave. - Segment "WW" North side of street 54' from "O".	NG	0.41
924	QA Reference Material F (Native)	NG	1.4
925N	Known Blank (Matrix Spike)	0.88	
926	Esther St. - Segment "SS" East side of street 130' from "O".	ND	
927	Lister Ave. - Segment "C" South side of street 100' from "O".	ND	
928	Lister Ave. - Segment "B" South side of street 26' from "O".	ND	
929	Lister Ave. - Segment "B" North side of street 26' from "O".	NG	
930	Lister Ave. - Segment "C" South side of street 37' from "O".	NG	
931	Lister Ave. - Segment "C" North side of street 100' from "O".	NG	0.96

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
PARKWAY SOIL  
10/18/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
932	Lister Ave. - Segment "D" South side of street 52' from "O".	ND	
933	Raymond Blvd. - Segment "C1" North side of street 30' from "O".	NG	3.4

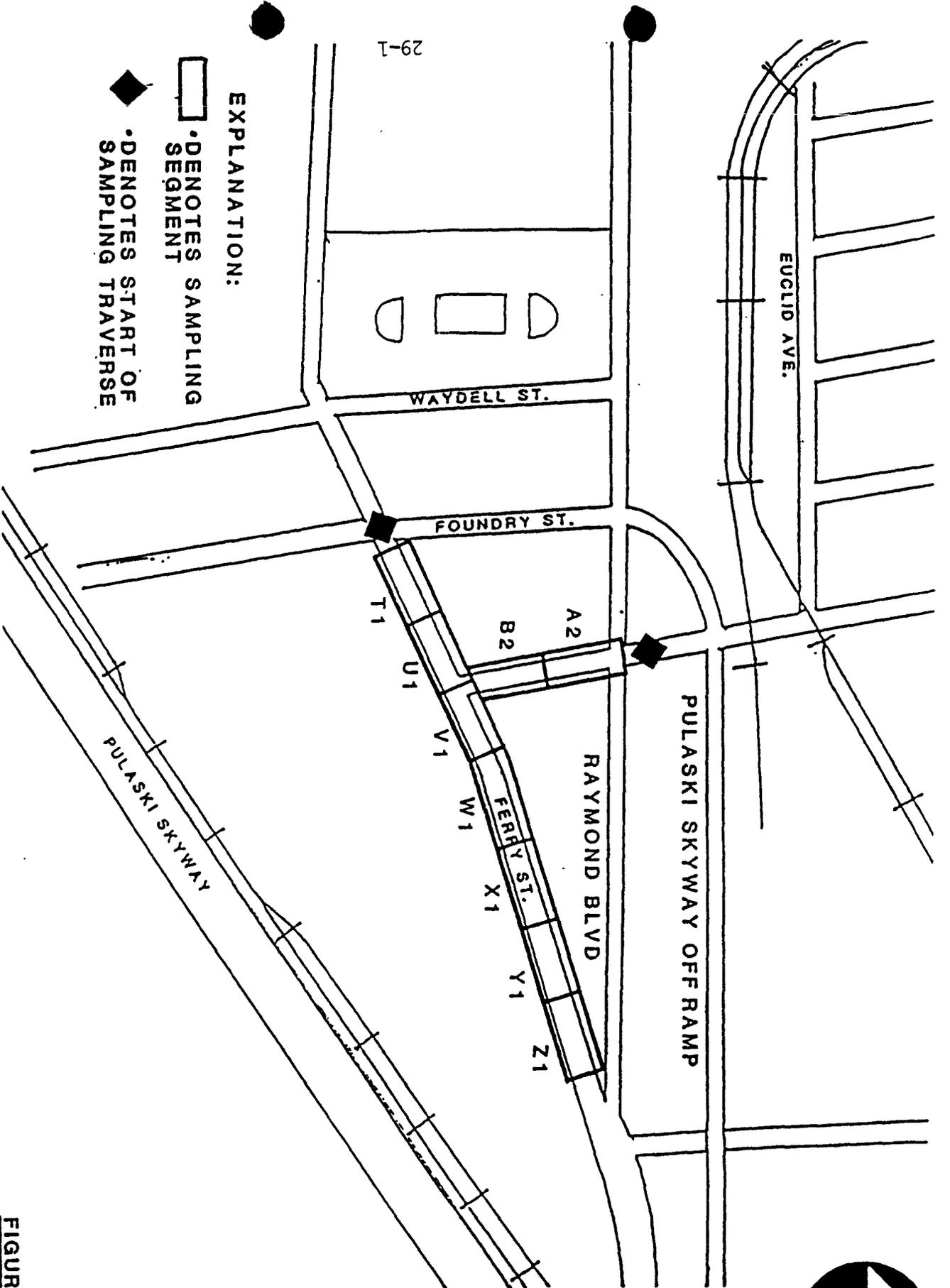
ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**FERRY STREET**

**80 LISTER AVENUE**

**NEWARK, N.J.**



29-1

- EXPLANATION:**
- DENOTES SAMPLING SEGMENT
  - DENOTES START OF SAMPLING TRAVERSE

SAMPLING SEGMENTS LOCATION MAP

FERRY ST SAMPLING 80 LISTER AVE NEWARK, N.J.

(NOT TO SCALE)

FIGURE 29-1



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**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
FERRY STREET  
10/20/83 and 10/26/83**

**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**FERRY STREET**  
**10/20/83 & 10/28/83**

**SAMPLE TYPE - SEDIMENT SWEEP**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
951	Lockwood Street - Segment "A2" (R) - 198' from "O".	1.7	
949	Lockwood Street - Segment "B2" (R) - 35' from "O".	1.5 1.0 duplicate	
943	Ferry Street - Segment "W1" (R) - 184' from "O".	1.4	

**NOTES:**

- (a) 18 samples were collected.
- (b) 12 samples had no detection of TCDD.
- (c) 3 samples were detected below 1.00 ppb TCDD.
- (d) "O" denotes end point of particular segment closest to the start of the sampling traverse.
- (e) (R) denotes sample taken at a random distance from "O".

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**FERRY STREET**  
**10/20/83 and 10/28/83**

TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
FERRY STREET  
10/20/83 & 10/28/83

SAMPLE DESCRIPTIONS

"O" denotes end point of particular segment closest to the start of the sampling traverse.

(R) denotes sample taken at a random distance from "O".

(B) denotes sample taken at a biased distance from "O".

SAMPLE TYPE - SEDIMENT SWEEP

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
934	Ferry Street - Segment "Y1" (R) - 12' from "O"	ND	
935	Ferry Street - Segment "Z1" (B) - 15' from "O"	ND	
936	QA Reference Material A (Native)	7.2	
937N	Known Blank (Matrix Spike)	1.15	1.04
938	Ferry Street - Segment "Y1" (B) - 128' from "O"	ND	
939	Ferry Street - Segment "Z1" (R) - 85' from "O"	ND	
940	Ferry Street - Segment "X1" (B) - 66' from "O"	ND	
941	Ferry Street - Segment "W1" (B) - 65' from "O"	ND	
942	Ferry Street - Segment "X1" (R) - 8' from "O"	ND	
943	Ferry Street - Segment "W1" (R) - 184' from "O"	1.4	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
FERRY STREET  
10/20/83 & 10/28/83

SAMPLE TYPE - SEDIMENT SWEEP

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
944	Lockwood Street - Segment "B2" (B) - 142' from "O"	0.65	
945	Ferry Street - Segment "V1" (B) - 174' from "O"	ND	
946	Lockwood Street - Segment "A2" (B) - 83' from "O"	0.92	
947	QA Reference Material F (Native)	1.3	
948	Unknown Blank	ND	ND duplicate
949	Lockwood Street - Segment "B2" (R) - 35' from "O"	1.5	1.0 duplicate
950	Ferry Street - Segment "V1" (R) - 38' from "O"	0.24	
951	Lockwood Street - Segment "A2" (R) - 198' from "O"	1.7	
952	Ferry Street - Segment "U1" (B) - 125' from "O"	ND	
953	Ferry Street - Segment "T1" (B) - 27' from "O"	ND	
954	Ferry Street - Segment T1" (R) - 106' from "O"	ND	
955	Ferry Street - Segment "U1" (R) - 4' from "O"	ND	

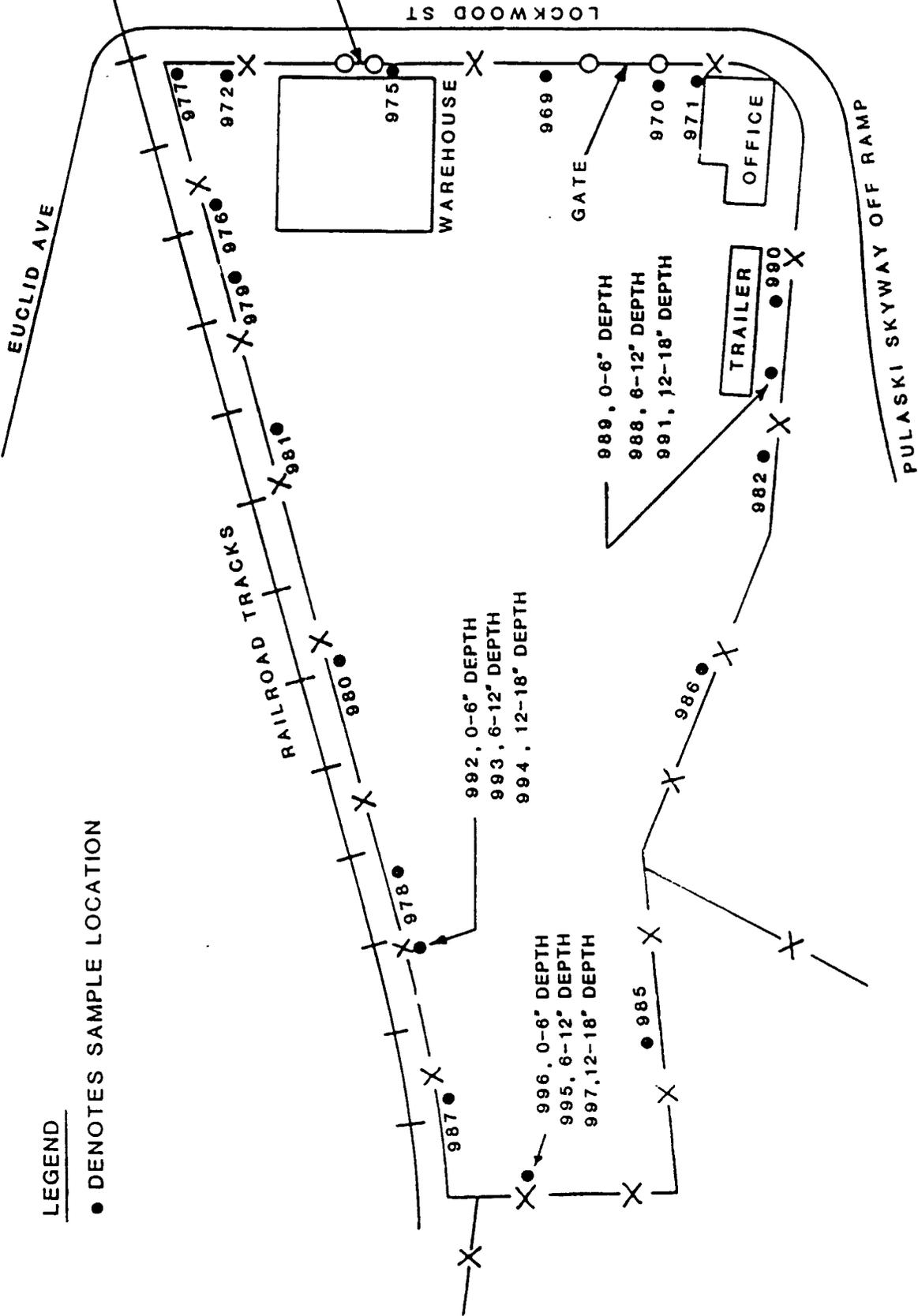
ND = Not Detected

**BRADY IRON AND METALS PERIMETER**

**80 LISTER AVENUE**

**NEWARK, N.J.**

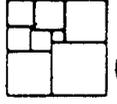
**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
BRADY IRON AND METALS PERIMETER  
10/22/83 and 10/26/83**



LEGEND

- DENOTES SAMPLE LOCATION

FIGURE 30-1

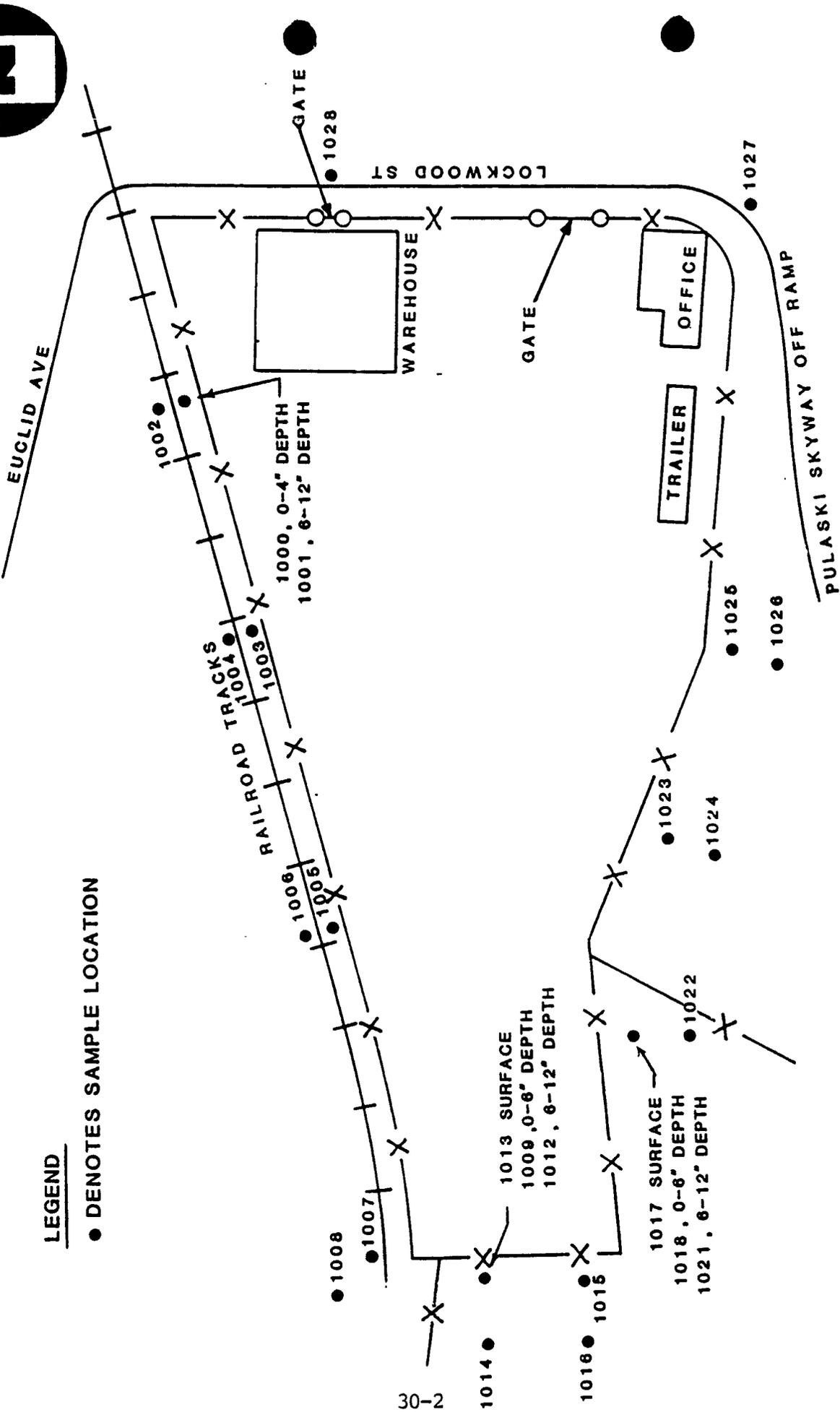


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INSIDE PROPERTY SAMPLING LOCATIONS

BRADY IRON & METALS, 80 LISTER AVENUE, NEWARK, N.J.

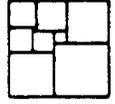
SCALE: 1" = 40'



**LEGEND**

● DENOTES SAMPLE LOCATION

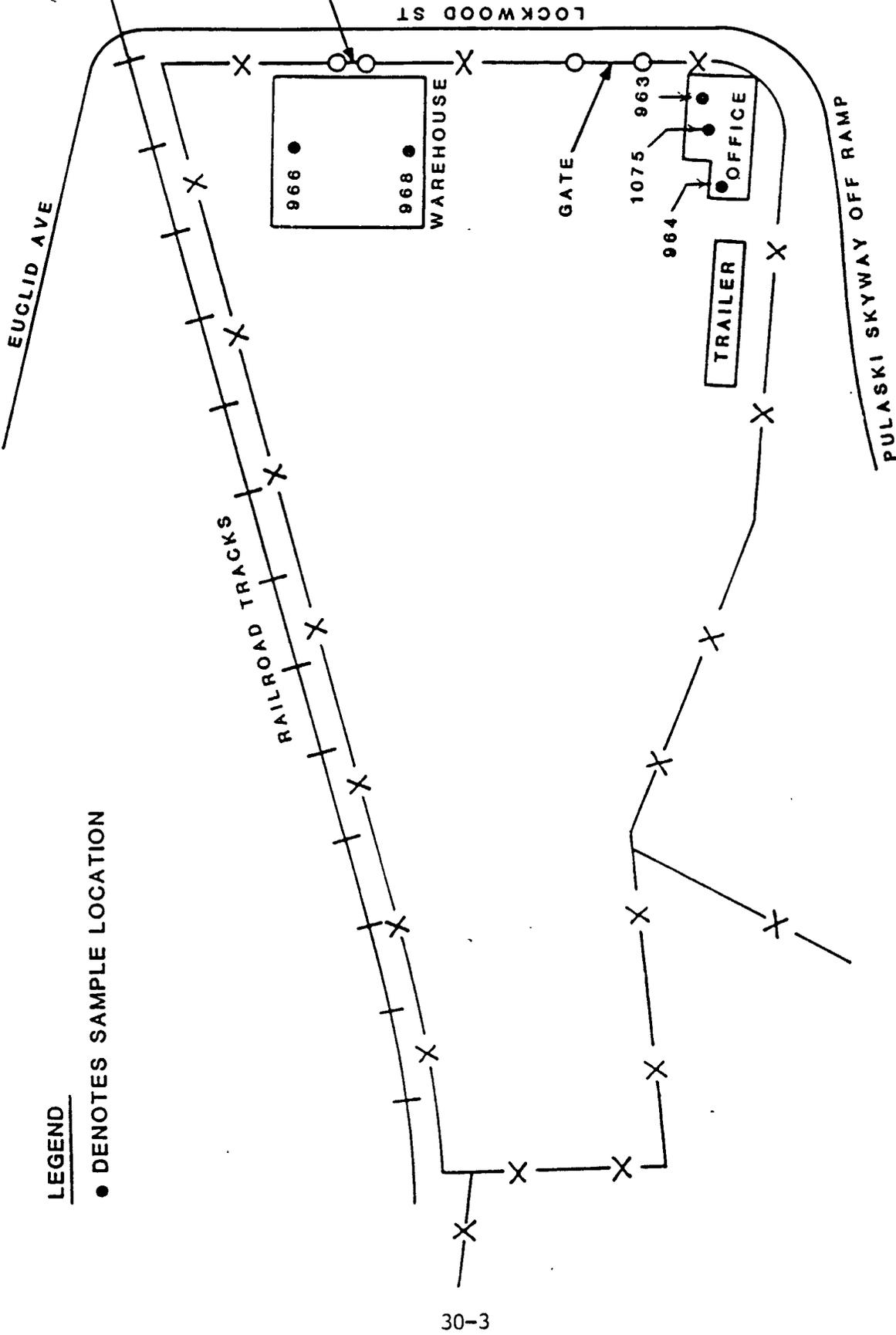
FIGURE 30-2



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**OUTSIDE PROPERTY SAMPLING LOCATIONS**  
**BADY IRON & METALS, 80 LISTER AVENUE, NEWARK, N.J.**

SCALE: 1" = 40'



**LEGEND**

● DENOTES SAMPLE LOCATION

30-3

FIGURE 30-3

**INSIDE BUILDING SAMPLE LOCATIONS  
BRADY IRON & METALS, 80 LISTER AVENUE, NEWARK, N.J.**

SCALE: 1" = 40'



TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
BRADY IRON AND METALS PERIMETER  
10/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
964	From filing cabinet and desk top in executive office, Brady Metals office building. Old #BI-30.	Wipe	14 ng	
966	Inside wall of Brady Metals property. Old #BI-27.	Sweep	3.8 5.4 duplicate	
968	Floor of warehouse, Brady Metals property. Old #BI-28.	Sweep	16	
969	Forty feet (40') north of northeast corner of Brady Metals office building, 2' inside the fenceline. Old #BI-1.	Surface Soil	16	
970	Twenty feet (20') north of northeast corner of Brady Metals office building, 2' inside the fenceline. Old #BI-2.	Surface Soil	17	
971	Two feet (2') inside the fenceline at the northeast corner of Brady Metals office building. Old #BI-3.	Surface Soil	17	

**TABLE 1 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS PERIMETER**  
**10/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
972	One hundred-twenty feet (120') north of northeast corner of Brady Metals office building. 2' inside the fenceline. Old #BI-4.	Surface Soil	12	
975	Eighty feet (80') north of northeast corner of Brady Metals office building, 2' inside the fenceline. Old #BI-5.	Surface Soil	21	
976	Forty feet (40') west of north east corner of fencepost, 2' inside the fenceline. Old #BI-6.	Surface Soil	7.7	
977	Two feet (2') inside the fenceline at the northeast corner fencepost. Old #BI-7.	Surface Soil	10 10 duplicate	
978	Two hundred-twenty feet (220') west of the northeast corner fencepot, 2' inside the fenceline. Old #BI-8.	Surface Soil	NG	290
979	Sixty feet (60') west of the northeast corner fencepost 2' inside the fenceline. Old #BI-9	Surface Soil	NG	29
980	One hundred-sixty feet (160') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-10.	Surface Soil	NG	629

TABLE 1 (cont'd)  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 BRADY IRON AND METALS PERIMETER  
 10/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
981	One hundred feet (100') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-11.	Surface Soil	NG	77
982	Two hundred feet (200') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-12.	Surface Soil	NG	27
985	Forty feet (40') east of the west corner fencepost, 2' inside the fenceline. Old #BI-13.	Surface Soil	NG	230
986	One hundred-forty feet (140') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-14.	Surface Soil	NG	470
987	Two hundred-eighty feet (280') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-15.	Surface Soil	NG	100

**TABLE 1 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS PERIMETER**  
**10/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
988	Two hundred-twenty feet (220') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-16.	Soil, 6-12" depth	5.9	
989	Two hundred-twenty feet (220') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-17.	Soil, 0-6" depth	3.0	
990	Two hundred-forty feet (240') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-18.	Surface Soil	24	
991	Two hundred-twenty feet (220') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-19.	Soil, 12-18" depth	1.7	
992	Two hundred-forty feet (240') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-20.	Soil, 0-6" depth	NG	99

**TABLE 1 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS PERIMETER**  
**10/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
993	Two hundred-forty feet (240') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-21.	Soil, 6-12"	NG	
994	Two hundred-forty feet (240') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-22.	Soil, 12-18" depth	10	
995	Twenty feet (20') south of northwest corner fencepost, 2' inside the fenceline. Old #BI-23.	Soil, 6-12" depth	5.2	

**TABLE 1 (cont'd)**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS PERIMETER**  
**10/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
996	Twenty feet (20') south of the northwest corner fencepost, 2' inside the fenceline. Old #BI-24.	Soil, 0-6" depth	1156	
997	Twenty feet (20') south of the northwest corner fencepost, 2' inside the fenceline. Old #BI-25.	Soil, 12-18" depth	9.1 6.9 Duplicate	
1000	Two feet (2') outside the fenceline at northeast property corner. Old #BO-1	Soil, 0-4" depth	NG	5.6
1002	Ten feet (10') outside east property corner. Old #BO-3.	Surface Soil	NG	2.4
1007	Three hundred feet (300') fencepost, 2' outside the fenceline. Old #BO-8.	Surface Gravel	NG	725
1009	Twenty feet (20') south of the northwest corner fence post, 2' outside the fenceline. Old #BO-10.	Soil, 0-6" depth	NG	28

TABLE 1 (Cont'd)  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 BRADY IRON AND METALS PERIMETER  
 10/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1013	Twenty feet (20') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-12.	Surface Soil	6.5	
1014	Twenty feet (20') south of the northwest corner fencepost, 10' outside the fenceline. Old #BO-13.	Surface Soil	3.9	
1015	Forty feet (40') south of the northwest corner fencepost, 2' outside the fenceline. Old 3 BO-14.	Surface Soil	2.8	
1016	Forty feet (40') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-15.	Surface Soil	2.3	
1017	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-16.	Surface Soil	NG	623
1018	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-17.	Soil, 0-6"	NG	750
1021	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline Old #BO-18.	Soil, 6-12" depth 30-10	NG	30

TABLE 1 (cont'd)  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 BRADY IRON AND METALS PERIMETER  
 10/26/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1022	One hundred-twenty feet (120') east of the southwest corner fencepost 2' outside the fenceline. Old #BO-19.	Surface Soil	NG	340
1023	One hundred-forty feet (140') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-20.	Surface Soil	NG	291
1024	One hundred-forty feet (140') east of the southwest corner fencepost, 10' outside the fenceline. Old #BO-21.	Surface Soil	NG	401

**TABLE 1 (Cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
BRADY IRON AND METALS PERIMETER  
10/26/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1025	Two hundred feet (200') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-22.	Surface Soil	8.0	
1026	Two hundred feet (200') east of the southwest corner fencepost, 10' outside the fenceline. Old #BO-23.	Surface Soil	2.2	
1027	Two feet (2') east outside fenceline at southeast property corner. Old #BO-24.	Surface Soil	4.7	
1028	East of the warehouse, 2' outside the fenceline. Old #BO-25.	Surface Soil	NG	67

**NOTES:**

- (a) 55 samples were collected.
- (b) 3 samples had no detection of TCDD.
- (c) 4 samples were detected below 1.00 ppb TCDD.
- (d) 1 sample did not pass EPA Monitoring Management Branch QA/QC requirements.
- (e) 1 sample did not have enough volume to be analyzed, so it was not shipped to the lab.
- (f) NG = Did not pass EPA Monitoring Management Branch QA/QC requirement.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**BRADY IRON AND METALS PERIMETER**  
**10/22/83 and 10/26/83**

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TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
962N	Known Blank (Matrix Spike)	N/A	0.88	
963	From blue filing cabinet in outer office, Brady Metal office building. Old #BI-29.	Wipe	NG	
964	From filing cabinet and desk top in executive office, Brady Metal office building. Old #BI-30.	Wipe	14 ng	
965	QA Reference Material A (Native)	N/A	7.0	
966	Inside wall of warehouse, Brady Metal property. Old #BI-27.	Sweep	3.8 5.4 duplicate	
967	Unknown Blank	N/A	ND	
968	Floor of warehouse, Brady Metal property. Old #BI-28.	Sweep	16	
969	Forty feet (40') north of northeast corner of Brady Metals office building, 2' inside the fenceline. Old #BI-1.	Surface Soil	16	
970	Twenty feet (20') north of north east corner of Brady Metal office building, 2' inside the fenceline. Old #BI-2.	Surface Soil	17	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/AC requirements.

N/A = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
971	Two feet (2') inside the fenceline at the northeast corner of Brady Metal office building. Old #BI-3.	Surface Soil	17	
972	One hundred-twenty feet (120') north of northeast corner of Brady Metal office building, 2' inside the fenceline. Old #BI-4.	Surface Soil	12	
973N	Known Blank (Matrix Spike)	N/A	1.11	
974	QA Reference Material A (Native)	N/A	9.1	
975	Eighty feet (80') north of northeast corner of Brady Metal office building, 2' inside the fenceline. Old #BI-5.	Surface Soil	21	
976	Forty feet (40') west of northeast corner of fencepost inside the fenceline. Old #BI-6.	Surface Soil	7.7	
977	Two feet (2') inside the fenceline at the northeast corner fencepost. Old #BI-7.	Surface Soil	10 10 duplicate	
978	Two hundred-twenty feet (220') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-8.	Surface Soil	NG	290

N/G = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
979	Sixty feet (60') west of the northeast corner fence post 2' inside the fence line. Old #BI-9.	Surface Soil	NG	29
980	One hundred-sixty feet (160') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-10.	Surface Soil	NG	629
981	One hundred feet (100') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-11.	Surface Soil	NG	77
982	Two hundred feet (200') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-12.	Surface Soil	NG	27
983	Unknown Blank	N/A	ND	
984	QA Reference Material F (Native)	N/A	1.3	
985	Forty feet (40') east of the west corner fencepost, 2' inside the fenceline. Old #BI-13.	Surface Soil	NG	230
986	One hundred-forty feet (140') east of the southwest corner fencepost, 2' inside the fenceline. Old #BI-14.	Surface Soil	NG	470

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

N/A = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
987	Two hundred-eighty feet (280') west of the north-east corner fencepost, 2' inside the fenceline. Old #BI-15.	Surface Soil	NG	100
988	Two hundred-twenty feet (220') east of the south-west corner fencepost, 2' inside the fenceline. Old #BI-16.	Soil, 6-12" depth	5.9	
989	Two hundred-twenty feet (220') east of the south-west corner fencepost, 2' inside the fenceline. Old BI #BI-17.	Soil, 0-6" depth	3.0	
990	Two hundred-forty feet (240') east of the south-west corner fencepost, 2' inside the fenceline. Old #BI-18.	Surface Soil	24	
991	Two hundred-twenty feet (220') east of the south-west corner fencepost, 2' inside the fenceline. Old #BI-19.	Soil, 12-18" depth	1.7	
992	Two hundred-forty feet (240') west of the north-east corner fencepost, 2' inside the fenceline. Old #BI-20.	Soil, 0-6" depth	NG	99

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS PERIMETER**  
**10/22/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
993	Two hundred-forty feet (240') west of the north-east corner fencepost, 2' inside the fenceline. Old #BI-21.	Soil, 6-12" depth	NG	160
994	Two hundred-forty feet (240') west of the northeast corner fencepost, 2' inside the fenceline. Old #BI-22.	Soil, 12-18" depth	10	
995	Twenty feet (20') south of the northwest corner fencepost, 2' inside the fenceline. Old #BI-23.	Soil, 6-12" depth	5.2	
996	Twenty feet (20') south of the northwest corner fencepost, 2' inside the fenceline. Old #BI-24.	Soil, 0-6" depth	NG	1156
997	Twenty feet (20') south of the northwest corner fencepost, 2' inside the fenceline. Old #BI-25.	Soil, 12-18"	9.1 6.9 duplicate	
998N	Known Blank (Matrix Blank)	N/A	0.94	
999	QA Reference Material A (Native)	N/A	6.7	
1000	Two feet (2') outside the fenceline at northeast property corner. Old #BO-1	Soil, 0-4" depth	NG	5.6
1001	Two feet (2') outside the fenceline at northeast property corner. Old #BO-2.	Soil, 6-12" depth	ND	

N/A = Not Applicable

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS PERIMETER**  
**10/22/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1002	Ten feet (10') outside the fenceline at northeast property corner. Old #BO-3.	Surface Soil	NG	2.4
1003	One hundred feet (100') west of northeast corner fencepost, 2' outside the fenceline. Old #BO-4.	Surface Gravel	0.09	
1004	One hundred feet (100') west of northeast corner fencepost, 2' outside the fenceline. Old #BO-5.	Surface Gravel	ND	
1005	Two hundred feet (200') west of northeast corner fencepost, 2' outside the fenceline. Old #BO-6.	Surface Gravel	0.39	
1006	Two hundred feet (200') west of northeast corner fencepost, 10' outside the fenceline. Old #BO-7.	Surface Gravel	ND	
1007	Three hundred feet (300') west of northeast corner fencepost, 2' outside the fenceline. Old #BO-8.	Surface Gravel	NG	725
1008	Northwest corner fencepost, 10' north of the fenceline. Old #BO-9.	Surface Gravel	0.70	
1009	Twenty feet (20') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-10.	Soil, 0-6" depth	NG	28

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1010	Unknown Blank	N/A	0.3	
1011	QA Reference Material F (Native)	N/A	1.4	
1012	Twenty feet (20') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-11.	Soil, 6-12" depth	0.35	
1013	Twenty feet (20') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-12.	Surface Soil	6.5	
1014	Twenty feet (20') south of the northwest corner fencepost, 10' outside the fenceline. Old #BO-13.	Surface Soil	3.9	
1015	Forty feet (40') south of the northwest corner fencepost, 2' outside the fenceline. Old #BO-14.	Surface Soil	2.8	
1016	Forty feet (40') south of the northwest corner fencepost, 10' outside the fenceline. Old #BO-15.	Surface Soil	2.3	
1017	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-16.	Surface Soil	NG	623

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS PERIMETER**  
**10/22/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1018	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-17.	Soil, 0-6" depth	NG	750
1019N	Known Blank (Matrix Spike)	N/A	1.16	
1020	QA Reference Material A (Native)	N/A	7.3	
1021	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-18.	Soil, 6-12" depth	NG	30
1022	One hundred-twenty feet (120') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-19.	Surface Soil	NG	340
1023	One hundred-forty feet (140') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-20.	Surface Soil	NG	291
1024	One hundred-forty feet (140') east of the southwest corner fencepost, 10' outside the fenceline. Old #BO-21.	Surface Soil	NG	401

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS PERIMETER  
10/22/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1025	Two hundred feet (200') east of the southwest corner fencepost, 2' outside the fenceline. Old #BO-22.	Surface Soil	8.0	
1026	Two hundred feet (200') east of the southwest corner fencepost, 10' outside the fenceline. Old #BO-23.	Surface Soil	2.2	
1027	Two feet (2') east outside fenceline at southeast property corner. Old #BO-24.	Surface Soil	4.7	
1028	East of the warehouse, 2' outside the fenceline. Old #BO-25.	Surface Soil	NG	67
1029	Unknown Blank	N/A	0.12	
1030	QA Reference Material F (Native)	N/A	1.7	
1075	Floor of outer office of Brady Metal office building. Old #BI-26.	Sweep	OH	

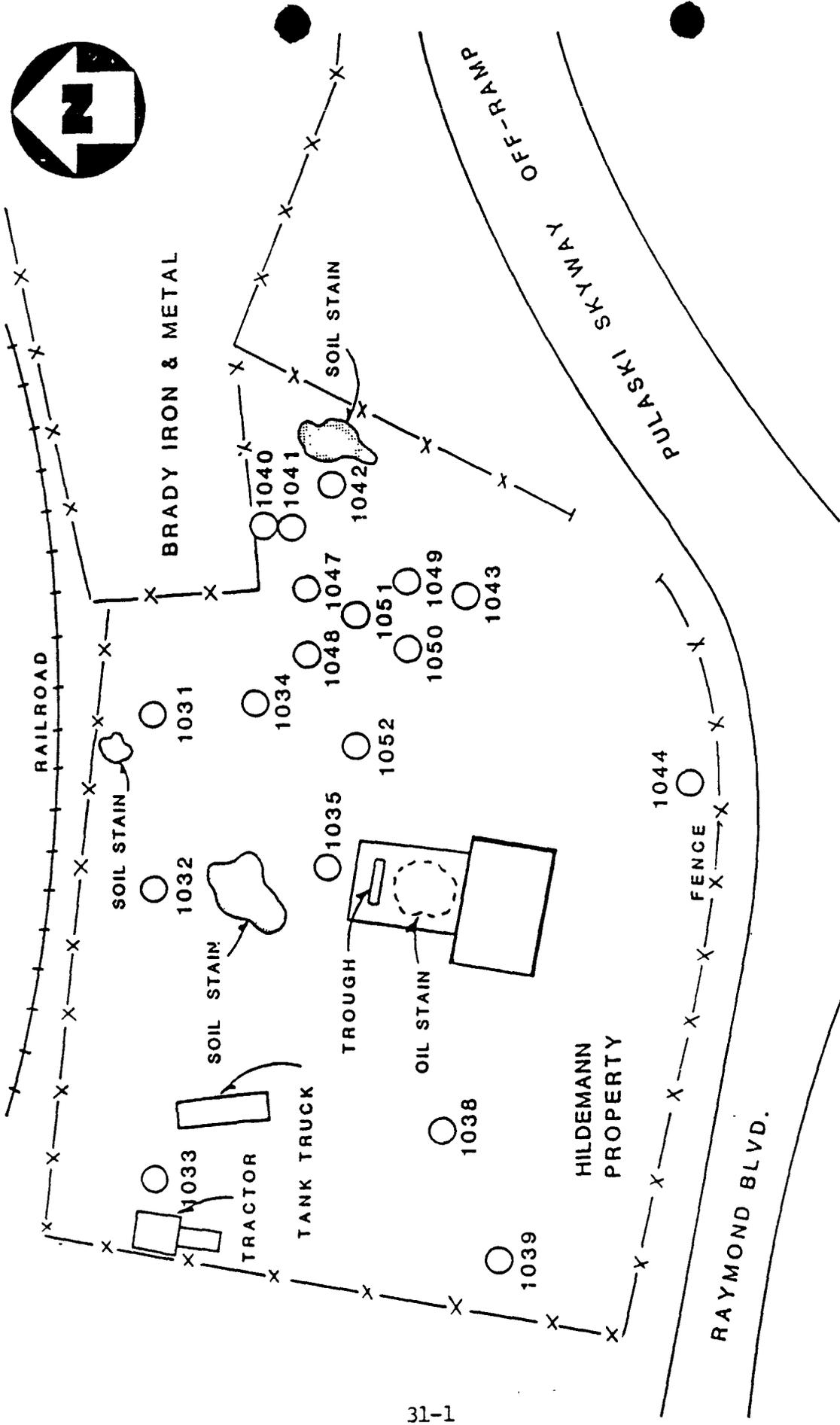
NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable  
OH = Not enough sample volume to be analyzed, so it was not shipped to the lab.

**HILDEMANN PROPERTY**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
HILDEMANN PROPERTY  
10/26/83**



31-1

SAMPLE LOCATION MAP  
HILDEMANN PROPERTY, 80 LISTER AVENUE, NEWARK, N.J.  
 (NOT TO SCALE)

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
HILDEMANN PROPERTY  
10/26/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1031	Hildemann property 40' west of western edge of Brady Iron & Metals property, 20' off the north fence line. Old #H1	2.6	
1040	Hildemann property 2' south of south of Brady Iron & Metals. Old # H8	NG	170
1041	Hildemann property 12' south of south edge of Brady Iron & Metals property. Old # H9	5.6	
1042	Hildemann property 38' southwest of the intersection of fences on south side of Brady Iron & Metals property. Old # H10	9.5	
1047	Hildemann property 56' south of south side of Brady Iron & Metals. Old # H13	1.1	

NOTES:

- (a) 18 samples were collected.
- (b) 2 samples had no detection of TCDD.
- (c) 11 samples were detected below 1.00 ppb TCDD.
- (d) NG=Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**HILDEMANN PROPERTY**  
**10/26/83**

TABLE 2  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
HILDEMANN PROPERTY  
10/26/83

## SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1031	Hildemann property 40' west of western edge of Brady Iron & Metals property, 20' off the north fence line. Old # H1	2.6	
1032	Hildemann property 100' west of western edge of Brady Iron & Metals property, 20' off the north fence line. Old # H2	0.21	
1033	Hildemann property 165' west of western edge of Brady Iron & Metals property, 20' off the north fence line. Old # H3	ND	
1034	Hildemann property 40' west of western edge of Brady Iron & Metals property, north 110° E of fence line. Old # H4	0.81 0.78 duplicate	
1035	Hildemann property 98' west of western edge of Brady Iron & Metals property, north 110° E of fence line. Old # H5	ND	
1036N	Known Blank (Matrix Spike)	1.17	
1037	QA Reference Material F (Native)	1.5	
1038	Hildemann property 150' west of western edge of Brady Iron & Metals property, north 110° E of fence line. Old # H6	0.13	

ND = Not Detected

TABLE 2 (cont'd)  
 SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
 HILDEMANN PROPERTY  
 10/26/83

SAMPLE TYPE - GRAB SOIL

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1039	Hildemann property 200' west of western edge of Brady Iron & Metals property, north 110° E of fence line. Old # H7	0.15	
1040	Hildemann property 2' south of south of Brady Iron & Metals property. Old # H8	NG	170
1041	Hildemann property 12' south of south edge of Brady Iron & Metals property. Old # H9	5.6	
1042	Hildemann property 38' southwest of the intersection of fences on south side of Brady Iron & Metals property. Old # H10	9.5	
1043	Hildemann property 120' southwest of the intersection of fences on south side of Brady Iron & Metals property, north 140° W. Old # H11.	0.28	
1044	Hildemann property 165' southwest of the intersection of fences on south side of Brady Iron & Metals, north 140° W. Old # H12	0.69	
1045	Unknown Blank	ND	
1046	QA Reference Material F (Native)	1.5	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
HILDEMANN PROPERTY  
10/26/83

SAMPLE TYPE - GRAB SOIL

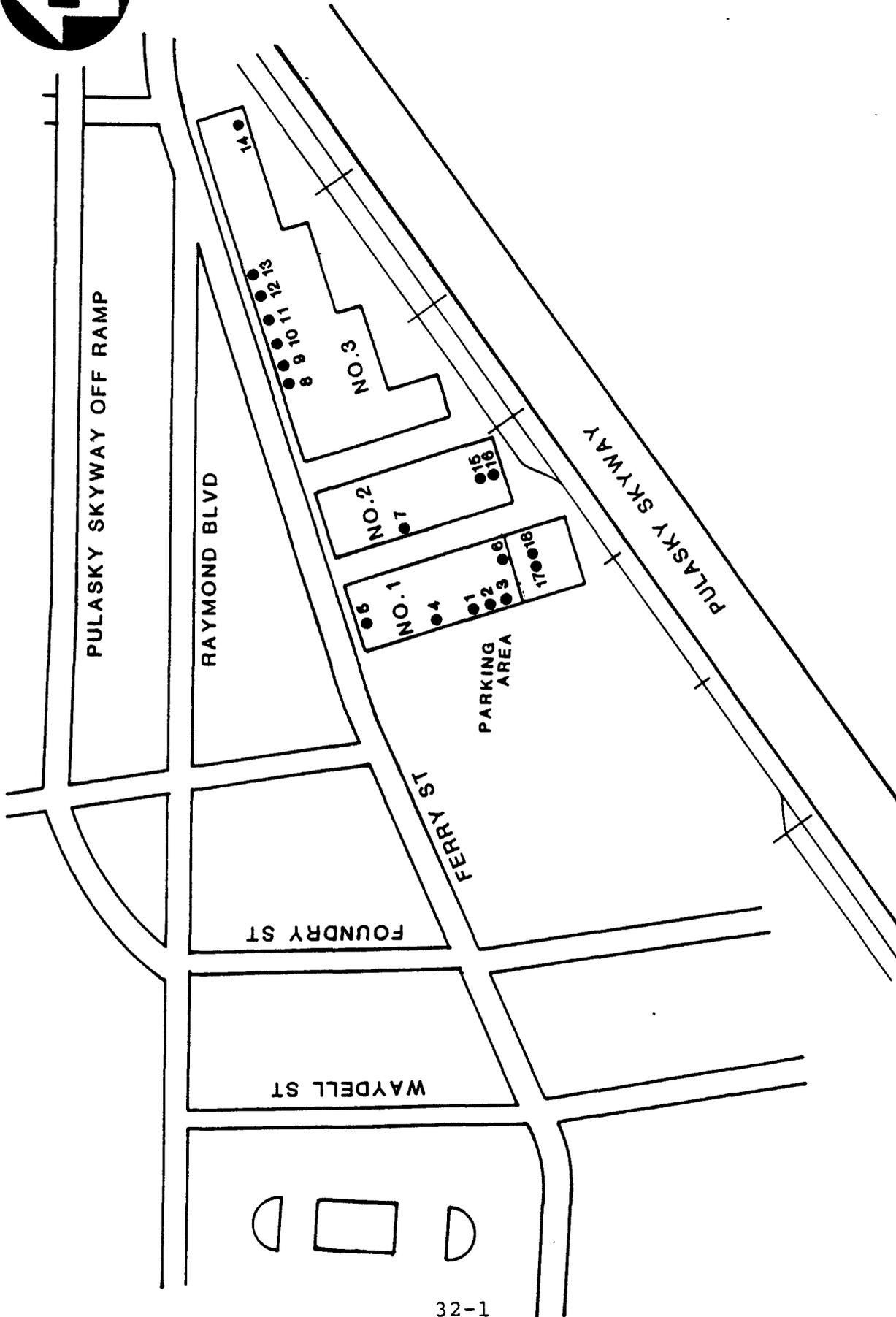
SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1047	Hildemann property 56' south of south side of Brady Iron & Metals. Old # H13	1.1	
1048	Hildemann property 66' south of south side of Brady Iron & Metals. Old # H14	0.58	
1049	Hildemann property 73' south of south side of Brady Iron & Metals. Old # H15.	0.52	
1050	Hildemann property 73' south of south side of Brady Iron & Metals, 10' west of above samples. Old # H16.	0.24	
1051	Hildemann property in center of box created by four previous samples. Old # H17.	0.58	
1052	Hildemann property 66' south of south side of Brady Iron & Metals, 30' west of fence line. Old # H18	0.23	

**NEW JERSEY TRANSIT**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
NEW JERSEY TRANSIT  
10/27/83**



32-1

FIGURE 32-1



SAMPLE LOCATION MAP

NEW JERSEY TRANSIT, 80 LISTER AVE, NEWARK, N.J.

(NOT TO SCALE)

**TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
NEW JERSEY TRANSIT  
10/27/83**

**SAMPLE TYPE - AIR CONDITIONER FILTER**

---

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat

---

No samples with concentrations 1 ppb or greater.

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NOTES:

- (a) 18 samples were collected.
- (b) 13 samples had no detection of TCDD.
- (c) 2 samples were detected below 1.00 ppb TCDD.
- (d) 3 samples did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
NEW JERSEY TRANSIT  
10/27/83**

**SAMPLE TYPE - AIR CONDITIONER FILTER**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1053	New Jersey Transit, right side, air conditioning filter - office at west end of building No. 1. Old # NJT1	ND	
1054	New Jersey Transit, left side (south side) air conditioning filter - office at west end of building No. 1. Old #NJT2	ND	
1055	New Jersey Transit, air conditioning filter, west side of building No. 1, in Lou Czornyk's office. Old # NJT3	ND	
1056	New Jersey Transit, air conditioning filter, west side of building No. 1, first aid room. Old # NJT4	ND	
1057N	Known Blank (Matrix Spike)	1.2	
1058	QA Reference Material F (Native)	1.2	
1059	New Jersey Transit, air conditioning filter, north side of building No. 1, Unit Dept. Foreman's office. Old # NJT5	ND	

ND = Not Detected

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
NEW JERSEY TRANSIT  
10/27/83

SAMPLE TYPE - AIR CONDITIONER FILTER

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1060	New Jersey Transit, air conditioning filter, south side of building No. 1, second floor, Electric Dept. Foreman's office. Old # NJT6	ND	
1061	New Jersey Transit, air conditioning filter, west side of building No. 2, Body Shop office. Old # NJT7	ND	
1062	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, first filter from the west. Old # NJT8	0.36	
1063	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, second filter from the west. Old # NJT9	NG	
1064	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, third filter from the west. Old # NJT10	ND	
1065	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, fourth filter from the west. Old # NJT11	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
NEW JERSEY TRANSIT  
10/27/83**

**SAMPLE TYPE - AIR CONDITIONER FILTER**

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1066	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, fifth filter from the west. Old # NJT12	ND	
1067	New Jersey Transit, air conditioning filter, north side of building No. 3, Storage office, sixth filter from the west. Old # NJT13	ND	
1068	New Jersey Transit, air conditioning filter, east side of building No. 3, Receiving office. Old # NJT14	NG	ND
1069	Unknown Blank	ND ND duplicate	
1070	QA Reference Material F (Native)	1.3	
1071	New Jersey Transit, air conditioning filter, first two filters taken from large blower unit in building No. 2, south side. Old # NJT15	ND	
1072	New Jersey Transit, air conditioning filter, second of two filters taken from large blower unit in building No. 2, south side. Old # NJT16	ND	

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
NEW JERSEY TRANSIT  
10/27/83

SAMPLE TYPE - AIR CONDITIONER FILTER

SAMPLE NUMBER	SAMPLE LOCATION	TCDD CONCENTRATION (ppb)	
		Initial	Repeat
1073	New Jersey Transit, air conditioning filter, first of two filters taken from large blower unit in building No. 1, western side. Old # NJT17	NG	
1074	New Jersey Transit, air conditioning filter, second of two filters taken from large blower unit in building No. 2, western side. Old # NJT18	0.16	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**NEW JERSEY TRANSIT**  
**10/27/83**

**BRADY IRON AND METALS**

**REMEDIAL GRID AND WIPE**

**80 LISTER AVENUE**

**NEWARK, N.J.**

**SUMMARY OF  
SAMPLE RESULTS  
80 LISTER AVENUE  
BRADY IRON AND METALS PERIMETER  
10/22/83 and 10/26/83**

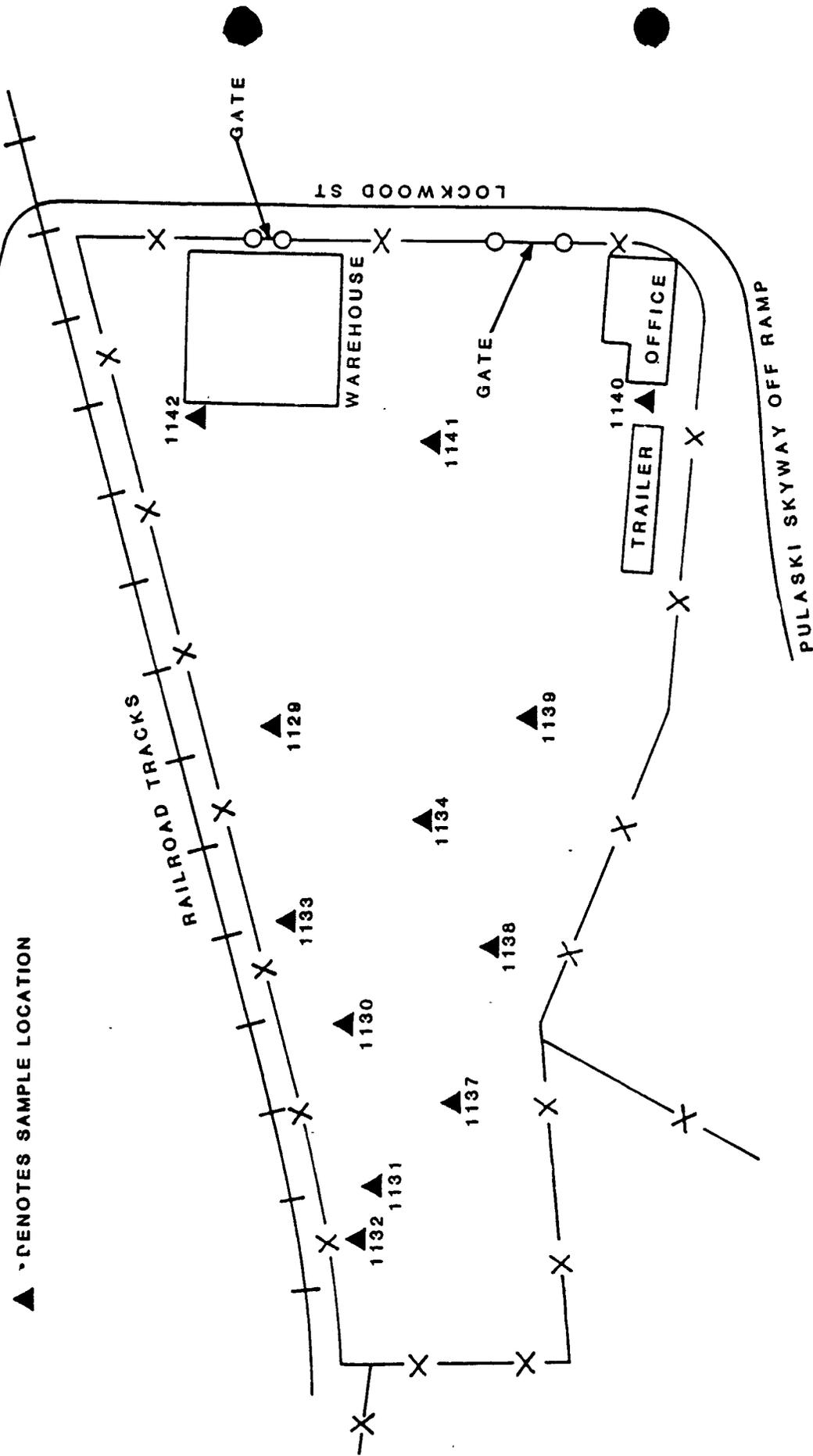




EUCLID AVE

**LEGEND:**

▲ DENOTES SAMPLE LOCATION



33-2

FIGURE 33-2

**REMEDIAL WIPE SAMPLE LOCATIONS**  
**BRADY IRON & METALS, 80 LISTER AVENUE, NEWARK, N.J.**

SCALE: 1" = 40'



**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1078	In hole dug by TAT in northwest corner of the site	Soil, 3' depth	23	
1080	Southwest section of the site 20' off fence line	Surface Soil	10 5.5 duplicate	
1081	Southwest section of the site 20' off fence line	Soil, 11-12"	NG	1027
1082	8 feet off north fence at west edge of waste pile	Surface Soil	NG	110
1084	8 feet off north fence at west edge of waste pile	Soil, 11-12" depth	4.9	
1085	10 feet off south fence at base of southern waste pile	Surface Soil	NG	1400
1086	10 feet off south fence at base of southern waste pile	Soil, 5-6" depth	NG	20
1087	10 feet off south fence at base of southern waste pile	Soil, 11-12" depth	22	
1090	8 feet off north fence north of waste pile	Surface Soil	NG	65
1091	8 feet off north fence north of waste pile	Soil, 5-6" depth	NG	250

**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1092	8 feet off north fence north of waste pile	Soil, 11-12" depth	NG	152
1093	28 feet off north fence, center of site	Surface Soil	NG	326
1094	28 feet off north fence, center of site	Soil, 5-6" depth	NG	54
1095	28 feet off north fence, center of site	Soil, 11-12" depth	NG	47
1096	7 feet off south fence south of waste pile	Surface Soil	NG	710
1097	7 feet of south fence south of waste pile	Soil, 5-6" depth	NG	1900 1846 Duplicate
1098	7 feet off south fence north of waste pile	Soil, 11-12" depth	NG	39
1099	16 feet off north fence north of waste pile	Surface Soil	NG	45

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

TABLE 1  
SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER  
BRADY IRON AND METALS REMEDIAL GRID AND WIPE  
11/8/83, 11/9/83 & 11/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1102	16 feet off north fence north of waste pile	Soil, 5-6" depth	NG	270
1103	16 feet off north fence north of waste pile	Soil, 11-12" depth	NG	250
1104	65 feet off south fence center of site	Surface Soil	NG	150
1105	64 feet off south fence center of site	Soil, 5-6" depth	NG	41
1106	65 feet off south fence center of site	Soil, 11-12" depth	NG	27
1107	38 feet off north fence in northeast section of site	Surface Soil	NG	48
1110	At the base of western edge of trailer	Surface Soil	NG	23
1113	At base of western edge of trailer	Soil, 5-6" depth	1.2	
1114	At base of western edge of trailer	Soil, 11-12" depth	1.3	
1115	12 feet south of Warehouse	Surface Soil	9.2	

**TABLE 1**  
**SAMPLES WITH CONCENTRATIONS 1 PPB OR GREATER**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1118	At southwest corner of office building	Surface Soil	NG	27
1119	At southwest corner of office building	Soil, 5-6" depth	21	
1120	At southwest corner of office building	Soil, 11-12" depth	NG	22
1122	70 feet due west main gate	Soil, 5-6" depth	4.7	
1125	70 feet due west of main gate	Soil, 11-12" depth	1.5	
1127	48 feet from north fence in center of site	Soil, 5-6" depth	63	
1128	48 feet from north fence in center of site	Soil, 11-12" depth	29	

NOTES:

- (a) 55 samples were collected.
- (b) 3 samples were detected below 1.00 ppb TCDD.
- (c) 5 samples did not pass EPA Monitoring Management Branch QA/QC requirements.
- (d) NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

**SAMPLE RESULTS**  
**80 LISTER AVENUE**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 and 11/15/83**

**TABLE 2  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS REMEDIAL GRID AND WIPE  
11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1076N	Known Blank (Matrix Spike)	NA	1.07	
1077	QA Reference Material A (Native)	NA	9.8	
1078	In hole dug by TAT in northwest corner of the site	Soil, 3' depth	23	
1079	Southwest section of the site 20' off fence line	Soil, 5-6" depth	0.95	
1080	Southwest section of the site 20' off fence line	Surface Soil	10 5.5 duplicate	
1081	Southwest section of the site 20' off fence line	Soil, 11-12" depth	NG	1027
1082	8 feet off north fence at west edge of waste pile	Surface Soil	NG	110
1083	8 feet off north fence at west edge of waste pile	Soil, 5-6" depth	NG	NG
1084	8 feet off north fence at west edge of waste pile	Soil, 11-12" depth	4.9	
1085	10 feet off south fence at base of southern waste pile	Surface Soil	NG	1400

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1086	10 feet off south fence at base of southern waste pile	Soil, 5-6" depth	NG	20
1087	10 feet off south fence at base of southern waste pile	Soil, 11-12" depth	22	
1088	Unknown Blank	N/A	0.08	
1089	QA Reference Material F (Native)	N/A	1.3	
1090	8 feet off north fence north of waste pile	Surface Soil	NG	65
1091	8 feet off north fence north of waste pile	Soil, 5-6" depth	NG	250
1092	8 feet off north fence north of waste pile	Soil, 11-12" depth	NG	152
1093	28 feet off north fence, center of site	Surface Soil	NG	326
1094	28 feet off north fence, center of site	Soil, 5-6" depth	NG	54
1095	28 feet off north fence, center of site	Soil, 11-12" depth	NG	47

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1096	7 feet off south fence south of waste pile	Surface Soil	NG	710
1097	7 feet off south fence south of waste pile	Soil, 5-6" depth	NG	1900 1846 duplicate
1098	7 feet off south fence south of waste pile	Soil, 11-12" depth	NG	39
1099	16 feet off north fence north of waste pile	Surface Soil	NG	45
1100	Unknown Blank	N/A	ND	
1101	QA Reference Material F (Native)	N/A	1.4	
1102	16 feet off north fence north of waste pile	Soil, 5-6" depth	NG	270
1103	16 feet off north fence north of waste pile	Soil, 11-12" depth	NG	250
1104	65 feet off south fence center of site	Surface Soil	NG	150
1105	64 feet off south fence center of site	Soil, 5-6" depth	NG	41

ND = Not Detected

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.

N/A = Not Applicable

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1106	65 feet off south fence center of site	Soil, 11-12" depth	NG	27
1107	38 feet off north fence in northeast section of site	Surface Soil	NG	48
1108	38 feet off north fence in northeast section of site	Soil, 5-6" depth	NG NG duplicate	
1109	38 feet off north fence in northeast section of site	Soil, 11-12" depth	NG	
1110	At the base of western edge of trailer	Surface Soil	NG	23
1111N	Known Blank (Matrix Spike)	N/A	1.22	
1112	QA Reference Material F (Native)	N/A	1.5	
1113	At base of western edge of trailer	Soil, 5-6" depth	1.2	
1114	At base of western edge of trailer	Soil, 11-12" depth	1.3	
1115	12 feet south of Warehouse	Surface Soil	9.2	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable  
BA = Being Analyzed

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS REMEDIAL GRID AND WIPE  
11/8/83, 11/9/83 & 11/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1116	12 feet south of Warehouse	Soil, 5-6" depth	0.31	0.32
1117	12 feet south of Warehouse	Soil, 11-12" depth	0.51	
1118	At southwest corner of office building	Surface Soil	NG	27
1119	At southwest corner of office building	Soil, 5-6" depth	21	
1120	At southwest corner of office building	Soil, 11-12" depth	NG	22
1121	70 feet due west of main gate	Surface Soil	NG	
1122	70 feet due west of main gate	Soil, 5-6" depth	4.7	
1123N	Known Blank (Matrix Spike)	N/A	1.2 NG Duplicate	
1124	QA Reference Material A (Native)	N/A	8.4	
1125	70 feet due west of main gate	Soil, 11-12" depth	1.5	

NG = Did not pass EPA Monitoring Management Branch QA/QC requirements.  
N/A = Not Applicable  
BA = Being Analyzed

**TABLE 2 (cont'd)**  
**ALL SAMPLES INCLUDING QA/QC**  
**BRADY IRON AND METALS REMEDIAL GRID AND WIPE**  
**11/8/83, 11/9/83 & 11/15/83**

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1126	48 feet from north fence in center of site	Surface Soil	NG	NG Duplicate NG Duplicate
1127	48 feet from north fence in center of site	Soil, 5-6" depth	63	
1128	48 feet from north fence in center of site	Soil, 11-12" depth	29	
1129	Dumpster labled 74 in northeast side of property	Surface Wipe	52 ng	
1130	Surface of large reaction vessel in center of western waste pile	Surface Wipe	45 ng	
1131	Wipe off machine press on western edge of north waste pile	Surface Wipe	560 ng	
1132	Wipe off machine press on western edge of north of site	Surface Wipe	12 ng	
1133	Wipe off ceramic bearls piled along waste pile	Surface Wipe	115 ng	
1134	Wipe inside green dumpster in center of site	Surface Wipe	110 ng	
1135	QA Reference Material F (Native)	N/A	1.9	

N/A = Not Applicable

ng= Sample results reported in nanograms

TABLE 2 (cont'd)  
ALL SAMPLES INCLUDING QA/QC  
BRADY IRON AND METALS REMEDIAL GRID AND WIPE  
11/8/83, 11/9/83 & 11/15/83

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE TYPE	TCDD CONCENTRATION (ppb)	
			Initial	Repeat
1136	Unknown Blank	N/A	ND	
1137	Wipe off spool of wire at western edge of south waste pile	Surface Wipe	88 ng	
1138	Wipe off stainless steel vessel in center of south waste pile	Surface Wipe	54 ng	
1139	Wipe off yellow truck body on southern edge of waste pile	Surface Wipe	15 ng	
1140	Wipe off machine behind office building	Surface Wipe	20 ng	
1141	Wipe off engine block near TAT deconn area	Surface Wipe	12 ng	
1142	Wipe off western side of Warehouse	Surface Wipe	150 ng	

N/A = Not Applicable  
ng= Sample results reported in nanograms