March 15, 1979

Region IV, Athens, GA 30605

Volatile Organic Analysis - Water Samples, Louisville, KY, Sites

Site: A.L. Taylor
Break: 2.2
Other:

Tom B. Bennett, Jr., Chief
Analytical Services Section

Mike Carter, Chief
Water Surveillance Branch

Attached are results of volatile organic analysis of water samples collected from the following sites in Louisville, KY:

- o 13.68-Acre Farm
- o Brickyard, Hardin County
- o Valley of the Drums, A. J. Taylor Site

For status of extractable organic analysis and metals analysis, see Laboratory status reports dated March 9, 1979, and March 19, 1979.

Tom B. Bennett, Jr.

Enclosures

cc - John White
Alec Little
Paul Traina
Jim Finger
Tom Devine
Asa Foster
Mark McClanahan
Al Smith

10951675

U.S. EPA REGION IV

SDMS

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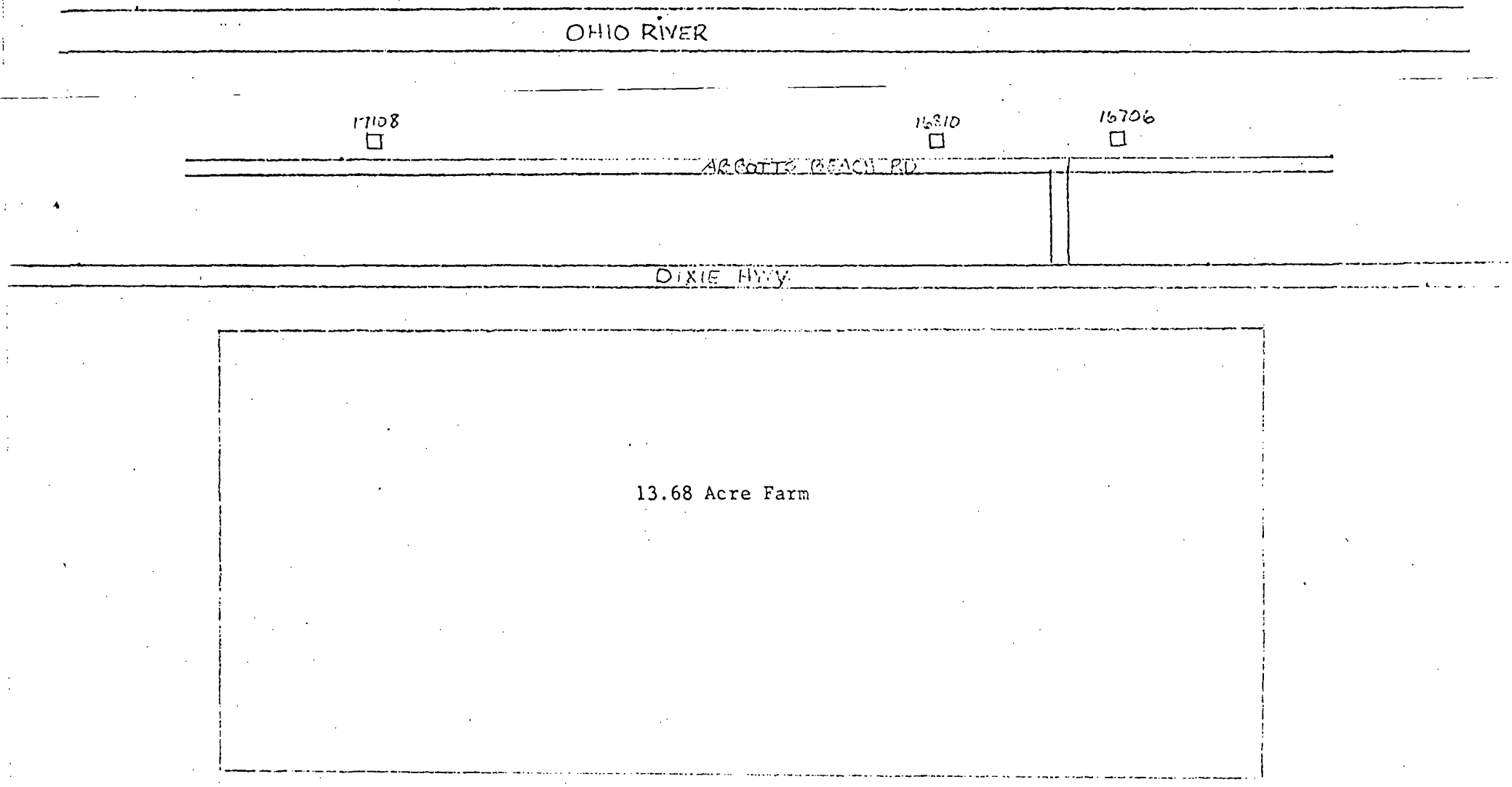
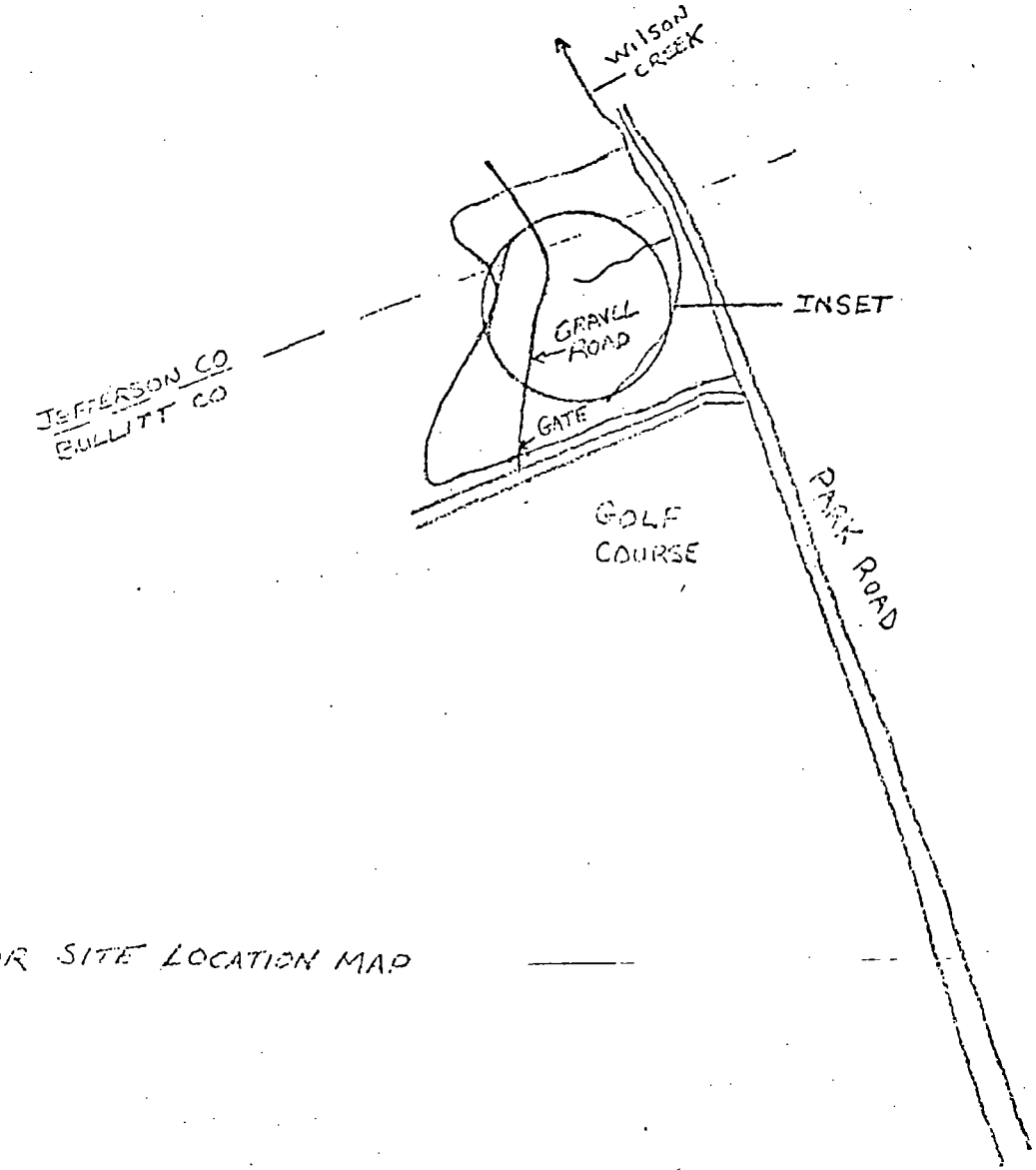
V. 2-040506

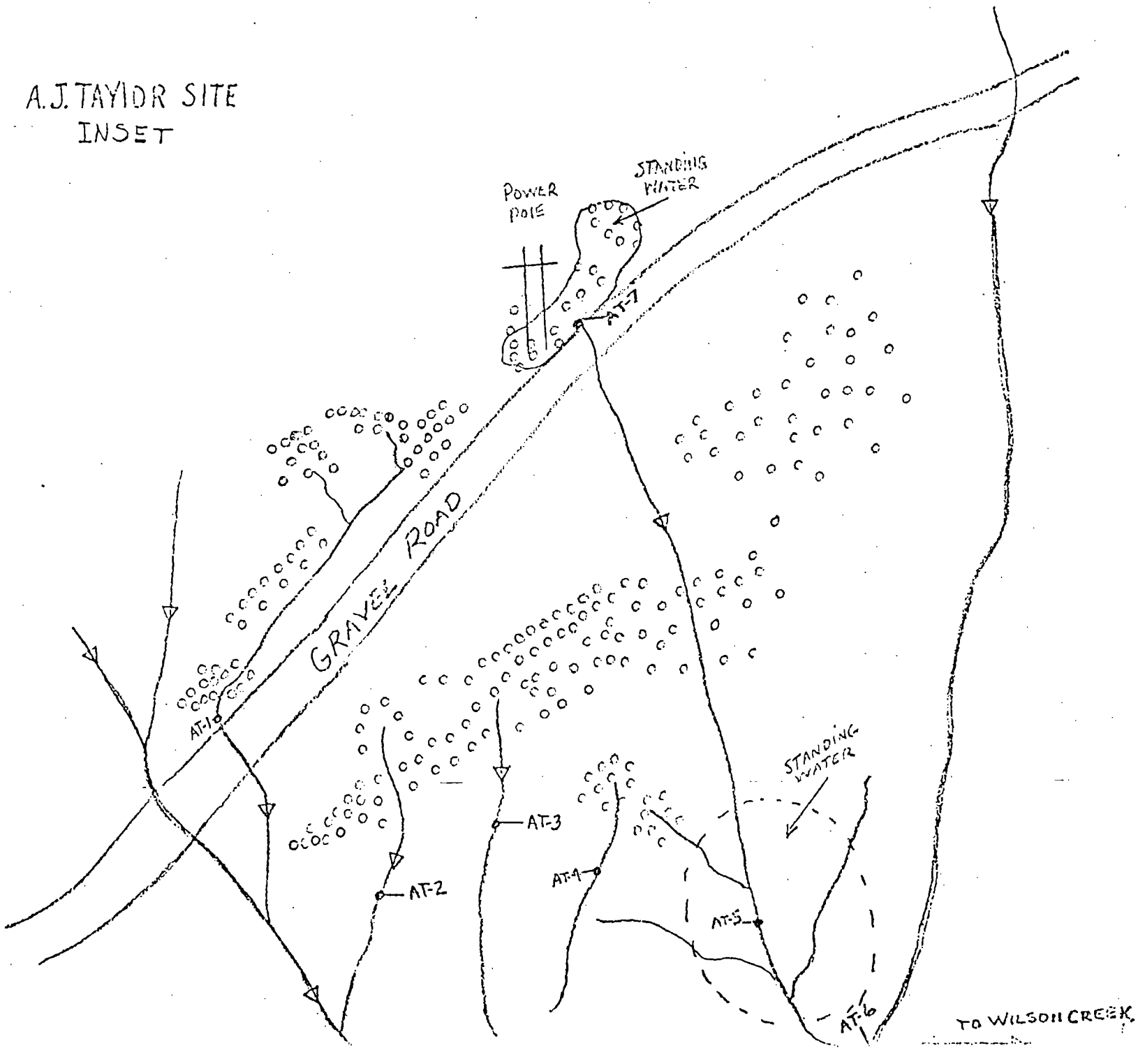
13.68 ACRE FARM WELL SAMPLE LOCATIONS





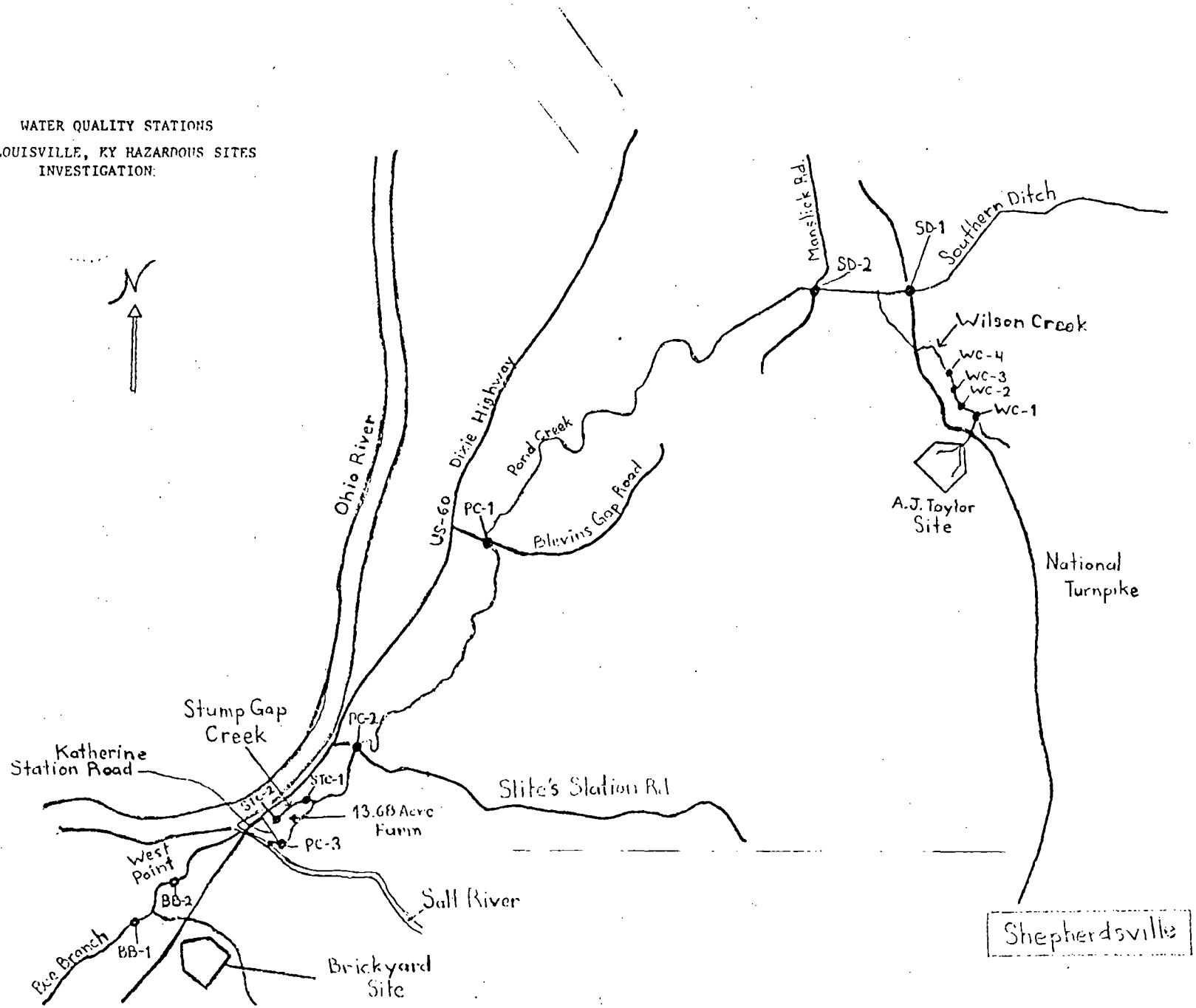
A.J. TAYLOR SITE LOCATION MAP

A.J. TAYLOR SITE
INSET



WATER QUALITY STATIONS

LOUISVILLE, KY HAZARDOUS SITES INVESTIGATION



DATA REPORTING SHEET

PROJECT Hazardous Waste Sites Louisville, KY CHEMIST Bill McDaniel REC'D 2/16/79 COMPL'D 3/15/79

	13.68 A.-Farm	13.68 A.-Farm	13.68 A.-Farm	13.68 A.-Farm
SAD No.	79C0368	79C0369	79C0370	79C0372
SOURCE & STATION	Davis Res. WHD-1	Morris Res. WCM-1	Stump Gap Crk. STC-2	West Point WWP-1
DATE/TIME	2/13/79, 1735	2/13/79, 1710	2/13/79, 1700	2/15/79, 0945
ELEMENT (UG/L)				
Silver	<10	<10	<10	<10
Arsenic	<25	<25	<25	<25
Boron	--	--	--	67
Barium	20	37	115	<10
Beryllium	<10	<10	<10	<10
Cadmium	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10
Chromium	<10	<10	<10	<10
Copper	20	15	15	<10
Molybdenum	<10	<10	<10	<10
Nickel	<20	<20	<20	<20
Lead	<25	<25	<25	<25
Antimony	<25	<25	<25	<25
Selenium	<40	<40	<40	<40
Tin	<50	<50	<50	<50
Strontium	163	127	228	183
Tellurium	<40	<40	<40	<40
Titanium	<20	<20	<20	<20
Thallium	<40	<40	<40	<40
Vanadium	<10	<10	<10	<10
Yttrium	<10	<10	<10	<10
Zinc	1,207	156	44	10
Zirconium	<10	<10	<10	<10
ELEMENT (MG/L)				
Silica	--	--	--	--
Calcium	109	100	79	103
Magnesium	35	28	20	29
Aluminum	0.1	0.1	0.2	0.2
Iron	<0.1	<0.1	1.4	0.1
Manganese	<0.05	0.15	0.9	0.07
Sodium	7	11	56	18

Louisville, KY

Extractable Organic Analyses

SAD No.	79C0364			
Source & Stn.	Water-WWP-2, West Pt., KY, Finished Water			
Date/Time	2-13-79, 1400			
COMPOUND (UG/L) (Estimated)				
Chlorocyclohexanol 1/3/	350			
Bromocyclohexanol 1/3/	170			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

3/ - These compounds are indicative of contamination from the laboratory extraction of chlorinated water with methylene chloride. It appears that this sample might have been chlorinated; therefore, the data for this compound should be used with discretion.

13.68-Acre Farm
Project Louisville, KY Chemist E. W. Loy, Jr. Rcd. 2-16-79 Comp'd. 3-16-79

Extractable Organic Analyses

SAD No.	79C0365			
Source & Stn.	Water - STC-1, Stump Gap Crk, DS, Over hill from barn			
Date/Time	2-14-79, 1600			
COMPOUND (UG/L) (Estimated)				
Diethyl Phthalate 2/	1.6			
Trimethyl Benzene Sulfonamide 1/	3.2			
Butyl Methyl Benzene Sulfonamide 1/	1.2			
Dibutyl Phthalate 2/	1.4			
2 Unidentified Compounds	1-10			

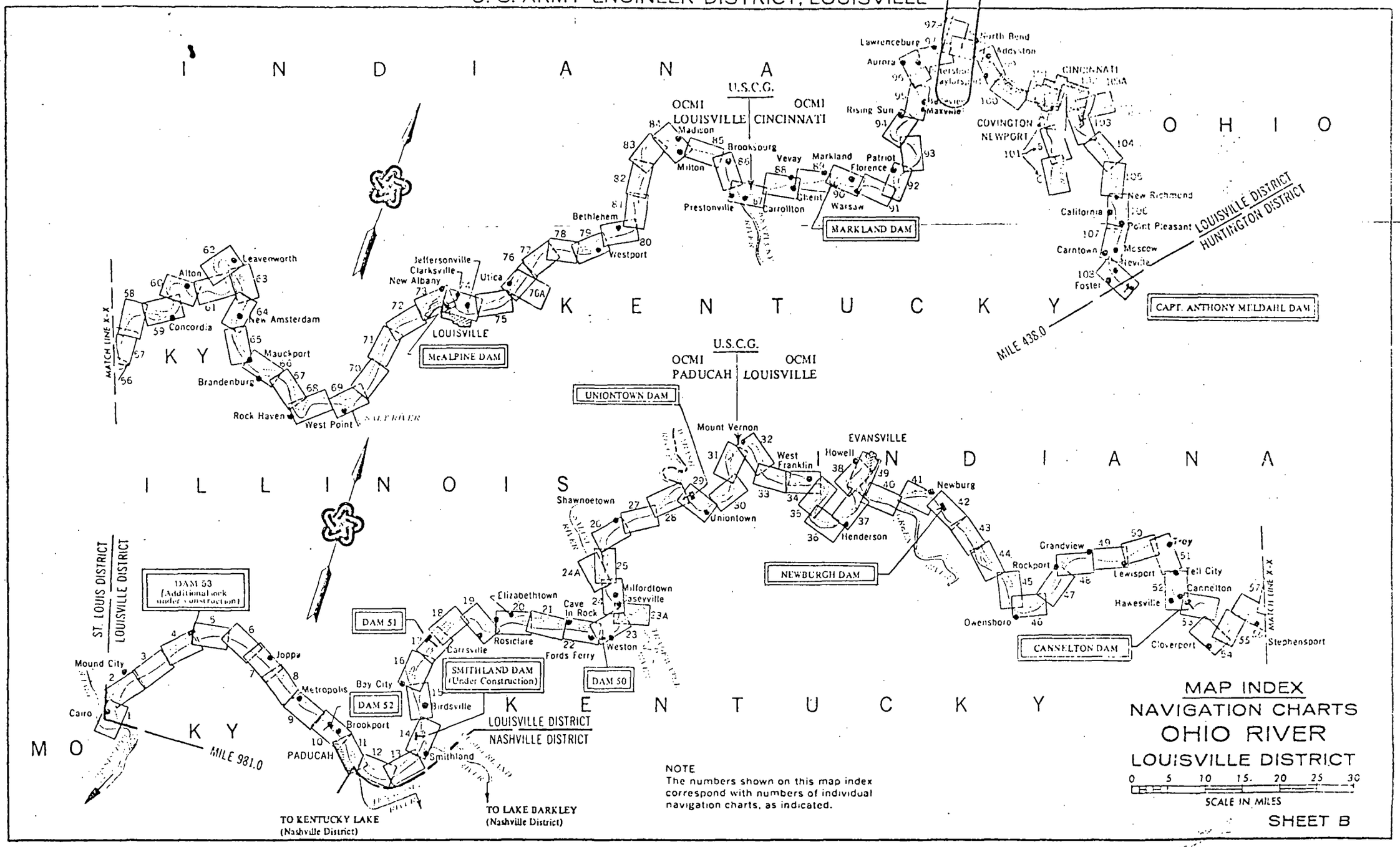
MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.



NOTE
The numbers shown on this map index correspond with numbers of individual navigation charts, as indicated.

DATA REPORTING SHEET

PROJECT Hazardous Waste Sites Louisville, KY CHEMIST Bill McDaniel REC'D 2/16/79 COMPL'D 3/15/79

	13.68 A.-Farm	13.68 A.-Farm	13.68 A.-Farm	13.68 A.-Farm
SAD No.	79C0368	79C0369	79C0370	79C0372
SOURCE & STATION	Davis Res. WHD-1	Morris Res. WCM-1	Stump Gap Crk. STC-2	West Point WWP-1
DATE/TIME	2/13/79, 1735	2/13/79, 1710	2/13/79, 1700	2/15/79, 0945
ELEMENT (UG/L)				
Silver	<10	<10	<10	<10
Arsenic	<25	<25	<25	<25
Boron	--	--	--	67
Barium	20	37	115	<10
Beryllium	<10	<10	<10	<10
Cadmium	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10
Chromium	<10	<10	<10	<10
Copper	20	15	15	<10
Molybdenum	<10	<10	<10	<10
Nickel	<20	<20	<20	<20
Lead	<25	<25	<25	<25
Antimony	<25	<25	<25	<25
Selenium	<40	<40	<40	<40
Tin	<50	<50	<50	<50
Strontium	163	127	228	183
Tellurium	<40	<40	<40	<40
Titanium	<20	<20	<20	<20
Thallium	<40	<40	<40	<40
Vanadium	<10	<10	<10	<10
Yttrium	<10	<10	<10	<10
Zinc	1,207	156	44	10
Zirconium	<10	<10	<10	<10
ELEMENT (MG/L)				
Silica	--	--	--	--
Calcium	109	100	79	103
Magnesium	35	28	20	29
Aluminum	0.1	0.1	0.2	0.2
Iron	<0.1	<0.1	1.4	0.1
Manganese	<0.05	0.15	0.9	0.07
Sodium	7	11	56	18

DATA REPORTING SHEET

Hazardous Waste Sites

Project Louisville, KY Chemist Bill McDaniel Rec'd. 2/16/79 Compl'd. 3/15/79

	Valley of Drums	Valley of Drums	13.68-A-Farm	13-68-A.-Farm
AD No.	79C0346	79C0347	79C0364	79C0367
Source & Stn.	Judd's Res. WCJ-1	Sweeney Res. WUS-1	West Pt. Fin. Wtr, WWP-2	Kasey Res. WTK-1
Date/Time	2/14/79, 1500	2/14/79, 1545	2/13/79, 1400	2/13/79, 1735
ELEMENT (UG/L)				
Silver	<10	<10	<10	<10
Arsenic	<25	<25	<25	<25
Boron	--	--	--	--
Barium	33	79	62	18
Beryllium	<10	<10	<10	<10
Cadmium	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10
Chromium	<10	<10	<10	<10
Copper	<10	<10	<10	13
Molybdenum	<10	<10	<10	<10
Nickel	<20	<20	<20	<20
Lead	<25	<25	<25	<25
Antimony	<25	<25	<25	<25
Selenium	<40	<40	<40	<40
Tin	<50	<50	<50	<50
Strontium	183	746	169	178
Tellurium	<40	<40	<40	<40
Titanium	<20	<20	<20	<20
Thallium	<40	<40	<40	<40
Vanadium	<10	<10	<10	<10
Yttrium	<10	<10	<10	<10
Zinc	<10	11	<10	2,192
Zirconium	<10	<10	<10	<10
ELEMENT (MG/L)				
Silica	--	--	--	--
Calcium	38	25	96	121
Magnesium	11	11	27	33
Aluminum	0.2	<0.1	0.1	0.2
Iron	<0.1	0.1	0.1	0.1
Manganese	<0.05	<0.05	<0.05	<0.05
Sodium	14	137	17	10

13.68-Acre Farm

ject Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-16-79 Comp'd. 3-1

Extractable Organic Analyses

No.	79C0370			
rce & Stn.	Water -STC-2, Stump Gap Crk. U.S.-Katherine St. Rd.			
e/Time	2-13-79, 1700			
POUND (UG/L) - (Estimated)				
clopentanone	20			
ethyl Phthalate 2/	2.5			
imethyl Benzene Sulfonamide 1/	16			
tyl Methyl Benzene Sulfonamide 1/	5.9			
s(2-ethylhexyl) Phthalate 2/	1.1			
nzisothiazolone 1/	5			
Unidentified Compounds	1-10			

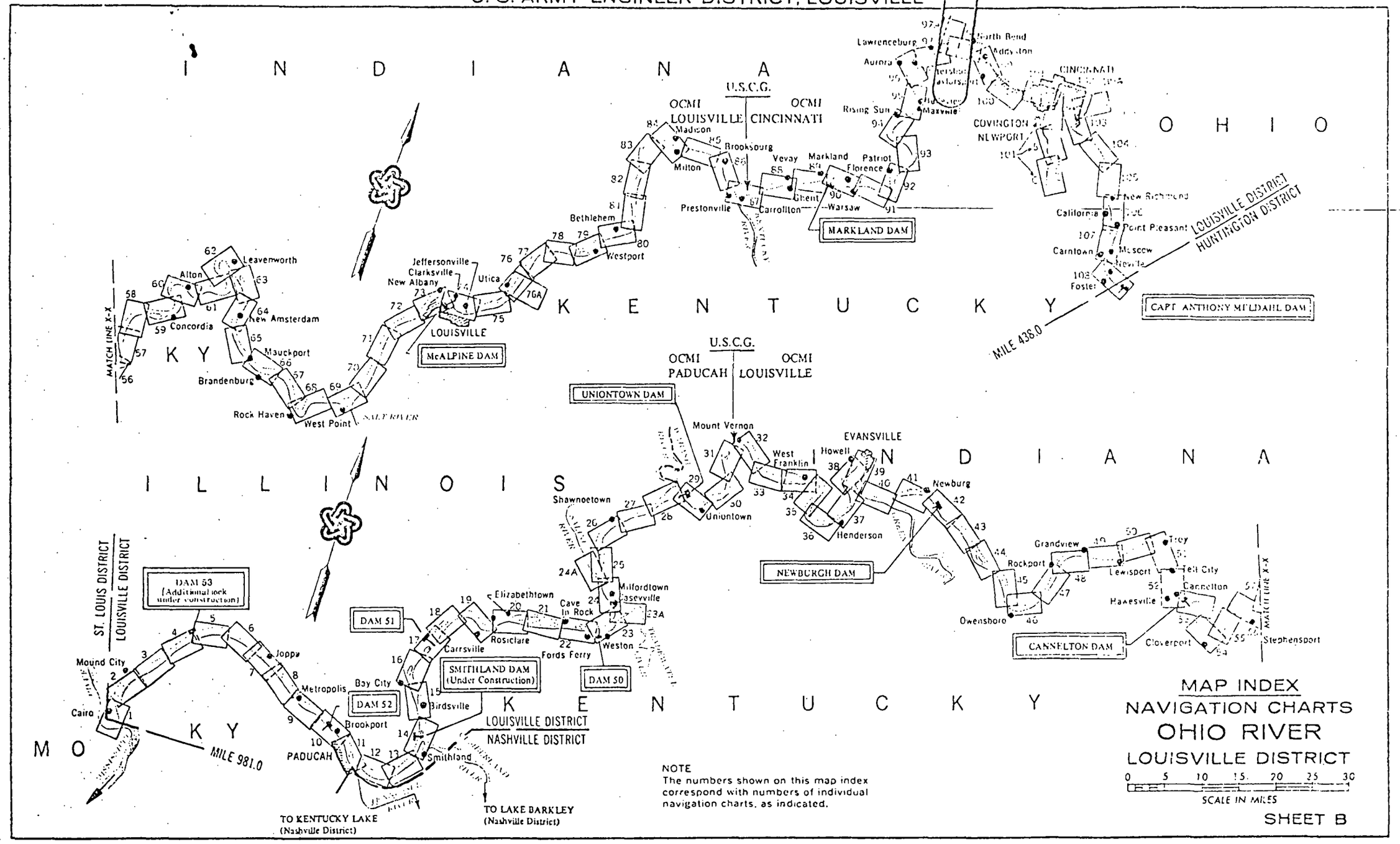
MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.


INDIANA
OHIO
KENTUCKY
ILLINOIS
MISSOURI
U.S.C.G.
OCMI LOUISVILLE
OCMI CINCINNATI
OCMI PADUCAH
OCMI LOUISVILLE
MARKLAND DAM
CAPT. ANTHONY MEUDAHL DAM
McALPINE DAM
UNIONTOWN DAM
NEWBURGH DAM
CANNELTON DAM
DAM 53 (Additional lock under construction)
DAM 52
DAM 51
DAM 50
SMITHLAND DAM (Under Construction)
ST. LOUIS DISTRICT
LOUISVILLE DISTRICT
LOUISVILLE DISTRICT
HUNTINGTON DISTRICT
LOUISVILLE DISTRICT
NASHVILLE DISTRICT
MILE 981.0
MILE 436.0
TO KENTUCKY LAKE (Nashville District)
TO LAKE BARKLEY (Nashville District)
MATCH LINE X-X
Cairo
Mound City
Joppa
Metropolis
Brookport
PADUCAH
Smithland
Bay City
Birdsville
Carrsville
Elizabethtown
Rosiclare
Cave In Rock
Fords Ferry
Weston
Milfordtown
Caseyville
Shawneetown
Uniontown
Mount Vernon
West Franklin
Henderson
EVANSVILLE
Howell
Newburg
Owensboro
Rockport
Grandview
Troy
Lewisport
Tell City
Cannelton
Hawesville
Cloverport
Stephensport
Rock Haven
West Point
Brandenburg
Mauckport
New Amsterdam
Concordia
Alton
Leavenworth
Jeffersonville
Clarksville
New Albany
Utica
LOUISVILLE
Bethlehem
Westport
Prestonville
Carrollton
Ghent
Warsaw
Vevay
Markland
Patriot
Florence
Brooksburg
Milton
Madison
Rising Sun
Aurora
Lawrenceburg
North Bend
Addyston
CINCINNATI
COVINGTON
NEWPORT
California
Point Pleasant
Carntown
Moscow
Foster
New Richmond
SALT RIVER
NOTE
The numbers shown on this map index correspond with numbers of individual navigation charts, as indicated.
MAP INDEX
NAVIGATION CHARTS
OHIO RIVER
LOUISVILLE DISTRICT
0 5 10 15 20 25 30
SCALE IN MILES
SHEET B

DATA REPORTING SHEET

Valley of the Drums
Project Louisville, KY Chemist Charles H. Hooper Rec'd. 2/16/79 Compl'd. 3/10/79

Volatile Organic Analyses

D No.	79C 0361	79C 0362	3/	79C 0348
urce & Stn.	Wilson Creek WC-004	Wilson Creek WC-003	Lab Analysis Blank	Pond Creek PC-002
ate/Time	2/13/79, 1515	2/13/79, 1445	3/6/79	2/14/79, 1200
OMPOUND (UG/L)				
inyl Chloride	ND	ND	ND	ND
ethylene Chloride	30	43	T<5	BC
,1-dichloroethylene	ND	ND	ND	BC
rans-1,2-dichloroethylene	BC	8.6	ND	BC
hloroform	ND	BC	T<5	BC
,1,1-trichloroethane	ND	ND	T<5	BC
arbon Tetrachloride	ND	ND	ND	ND
romodichloromethane	ND	ND	ND	T<5
richloroethylene	BC	BC	T<5	BC
enzene	BC	BC	T<5	BC
ibromochloromethane	ND	ND	ND	ND
romoform	ND	ND	ND	ND
Tetrachloroethene	BC	BC	T<5	BC
Tetrachloroethane	BC	BC	T<5	BC
Toluene	BC	BC	T<5	BC
Chlorobenzene	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	BC
Acetone 1/	4500	5200	ND	ND
Isopropanol 1/2/	ND	ND	ND	8.1
Trichlorotrifluoroethane 1/2/	BC	BC	5.0	BC
Methyl Ethyl Ketone 1/	2700	3200	ND	ND
2-butanol 1/2/	ND	ND	ND	ND
Hexane 1/2/	BC	BC	7.3	BC
Methyl Isobutyl Ketone 1/	1300	2400	T<200	ND
2-hexanol 1/2/	ND	T<5	ND	ND
Methyl Butyl Ketone 1/2/	ND	ND	ND	ND
Iso-octane 1/2/	BC	BC	8.2	BC
Trichlorofluoromethane	ND	ND	ND	T<5
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	ND	ND	ND
Dimethyl Disulfide 1/2/	ND	ND	ND	ND
Xylenes (2 isomers) 1/	ND	ND	ND	ND
2-methyl-1-propanol 1/2/	ND	ND	ND	ND
Methyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Analysis blank for samples 79C 0361-0362.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING SHEET

Valley of the Drums

Project Louisville, KY Chemist Charles H. Hooper Rec'd 2/15/79 Rep'd 3/10/79

Volatile Organic Analyses

AD No.	79C 0344	3/	79C 0346	79C 0347
Source & Stn.	Pond Creek PC-3	Lab Analysis Blank	Judd's Res. WCJ-1	Sweeney Res. WUS-1
Date/Time	2/13/79,@ 1620	2/28/79	2/14/79,@1500	2/14/79, @1545
COMPOUND (UG/L)				
Vinyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	T<5	BC	BC
1,1-dichloroethylene	ND	ND	BC	ND
Trans-1,2-dichloroethylene	ND	ND	ND	ND
Chloroform	ND	ND	13	ND
1,1,1-trichloroethane	ND	T<5	BC	BC
Carbon Tetrachloride	ND	ND	T<5	ND
Bromodichloromethane	ND	ND	7.8	ND
Trichloroethylene	BC	T<5	BC	BC
Benzene	BC	T<5	BC	BC
Dibromochloromethane	ND	ND	T<5	ND
Bromoform	ND	ND	T<5	ND
Tetrachloroethene	BC	T<5	BC	BC
Tetrachloroethane	BC	T<5	BC	BC
Toluene	ND	T<5	BC	BC
Chlorobenzene	ND	T<5	BC	ND
Ethyl Benzene	ND	T<5	BC	BC
Acetone 1/	ND	ND	ND	ND
Isopropanol 1/2/	ND	ND	BC	BC
Trichlorotrifluoroethane 1/2/	BC	18	BC	BC
Methyl Ethyl Ketone 1/	ND	ND	ND	ND
2-butanol 1/2/	ND	ND	ND	ND
Hexane 1/2/	BC	7.3	BC	BC
Methyl Isobutyl Ketone 1/	ND	ND	ND	ND
2-hexanol 1/2/	ND	ND	ND	ND
Methyl Butyl Ketone 1/2/	ND	ND	ND	ND
Iso-octane 1/2/	BC	5.3	BC	BC
Trichlorofluoromethane	ND	ND	ND	ND
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	ND	ND	ND
Dimethyl Disulfide 1/2/	ND	ND	ND	ND
Xylenes (2 isomers) 1/	ND	ND	ND	ND
2-methyl-1-propanol 1/2/	ND	ND	ND	ND
Methyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Lab Analysis Blank for Sample 79C 0344.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

Valley of the Drums
Place Louisville, KY Chemist Charles H. Hooper Rec'd 2/16/79 Rep'd 3/10/79
Volatile Organic Analyses

LAB No.	3/	79C 0357	79C 0358	4/
Source & Stn.	Lab Analysis Blank	Wilson Creek WC-001	Wilson Creek WC-002	Lab Analysis Blank
Date/Time	3/1/79	2/13/79, 1345	2/13/79, 1415	3/2/79
COMPOUND (UG/L)				
Vinyl Chloride	ND	T<5	T<5	ND
Methylene Chloride	T<5	58	52	T<5
1,1-dichloroethylene	ND	ND	ND	ND
Trans-1,2-dichloroethylene	ND	43	114	ND
Chloroform	ND	BC	ND	ND
1,1,1-trichloroethane	T<5	BC	BC	T<5
Carbon Tetrachloride	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Trichloroethylene	T<5	BC	BC	T<5
Benzene	T<5	BC	BC	T<5
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Tetrachloroethene	T<5	BC	BC	T<5
Tetrachloroethane	T<5	BC	BC	T<5
Toluene	T<5	BC	31	T<5
Chlorobenzene	T<5	ND	ND	ND
Ethyl Benzene	T<5	BC	6.8	T<5
Acetone 1/	T<5	8100	9300	ND
Isopropanol 1/2/	T<5	ND	15	ND
Trichlorotrifluoroethane 1/2/	15	ND	BC	15
Methyl Ethyl Ketone 1/	ND	5000	6300	ND
2-butanol 1/2/	ND	ND	34	ND
Hexane 1/2/	7.0	BC	BC	11
Methyl Isobutyl Ketone 1/	ND	2600	13000	ND
2-hexanol 1/2/	ND	T<5	36	ND
Methyl Butyl Ketone 1/2/	ND	ND	T<5	ND
Iso-octane 1/2/	7.0	BC	BC	19
Trichlorofluoromethane	ND	ND	ND	ND
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	ND	ND	ND
Dimethyl Disulfide 1/2/	ND	ND	ND	ND
Xylenes (2 isomers) 1/	ND	ND	ND	ND
2-methyl-1-propanol 1/2/	ND	ND	ND	ND
Methyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Analysis Blank for Samples 79C 0346 - 0347.
4/ - Analysis Blank for Samples 79C 0357-0358.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING SHEET

Louisville, KY

Project 10.68-Acre Farm Chemist Charles Hooper Rec'd. 2-16-79 Compl'd. 3-10-79

Volatile Organic Analyses

LD No.	79C0372	3/		
ource & Stn.	West Point WWP-1	Lab Analysis Blank		
ate/Time	2/15/79 0945	2/27/79		
OMPOUND (UG/L)				
inyl Chloride	ND	ND		
ethylene Chloride	BC	T<5		
,1-dichloroethylene	ND	ND		
rans-1,2-dichloroethylene	ND	ND		
hloroform	ND	ND		
1,1,1-trichloroethane	BC	T<5		
arbon Tetrachloride	ND	ND		
romodichloromethane	ND	ND		
Trichloroethylene	BC	T<5		
Benzene	BC	T<5		
Dibromochloromethane	ND	ND		
Bromoform	ND	ND		
etrachloroethene	BC	T<5		
Tetrachloroethane	BC	T<5		
Toluene	BC	T<5		
Chlorobenzene	ND	ND		
Ethyl Benzene	ND	T<5		
Acetone 1/	ND	ND		
Isopropanol 1/2/	ND	ND		
Trichlorotrifluoroethane 1/2/	BC	20		
Methyl Ethyl Ketone 1/	ND	ND		
2-butanol 1/2/	ND	ND		
Hexane 1/2/	BC	10		
Methyl Isobutyl Ketone 1/	ND	ND		
2-hexanol 1/2/	ND	ND		
Methyl Butyl Ketone 1/2/	ND	ND		
Iso-octane 1/2/	BC	5		
Trichlorofluoromethane	ND	8.3		
Pentane 1/2/	ND	ND		
1,1-dichloroethane	ND	ND		
Dimethyl Disulfide 1/2/	ND	ND		
Xylenes (2 isomers) 1/	ND	ND		
2-methyl-1-propanol 1/2/	ND	ND		
Methyl-propyl-ketone 1/2/	ND	ND		

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Lab Analysis Blank for Sample Nos. 79C0367 and 0372.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore data for the compound is not reported.

DATA REPORTING SHEET

Valley of the Drums
Project Louisville, KY Chemist Charles H. Hooper Rec'd. 2/16/79 Rep'd. 3/10/79
Volatile Organic Analyses

AD No.	79C 0350	79C 0353	3/	79C 0354
ource & Stn.	Southern Ditch SD-001	Pond Creek PC-001	Lab Analysis Blank	Southern Ditch SD-002
ate/Time	2/14/79, 0900	2/14/79, 1115	3/1/79	2/14/79, 1020
OMPOUND (UG/L)				
inyl Chloride	ND	ND	ND	ND
ethylene Chloride	BC	BC	T<5	BC
,1-dichloroethylene	ND	BC	ND	ND
rans-1,2-dichloroethylene	5.2	T<5	ND	T<5
hloroform	BC	BC	ND	BC
,1,1-trichloroethane	BC	BC	T<5	BC
arbon Tetrachloride	ND	ND	ND	ND
romodichloromethane	T<5	T<5	ND	T<5
Trichloroethylene	BC	BC	T<5	BC
enzene	BC	BC	T<5	BC
Dibromochloromethane	ND	T<5	ND	T<5
Bromoform	T<5	ND	ND	ND
Tetrachloroethene	BC	BC	T<5	BC
Tetrachloroethane	BC	BC	T<5	BC
Toluene	BC	BC	T<5	BC
Chlorobenzene	ND	ND	T<5	ND
Ethyl Benzene	BC	BC	T<5	BC
Acetone 1/	ND	ND	T<5	ND
Isopropanol 1/2/	ND	ND	T<5	ND
Trichlorotrifluoroethane 1/2/	BC	BC	15	BC
Methyl Ethyl Ketone 1/	ND	ND	ND	ND
2-butanol 1/2/	ND	ND	ND	ND
Hexane 1/2/	BC	BC	7.0	BC
Methyl Isobutyl Ketone 1/	ND	ND	ND	ND
2-hexanol 1/2/	ND	ND	ND	ND
Methyl Butyl Ketone 1/2/	ND	ND	ND	ND
Iso-octane 1/2/	BC	BC	7.0	BC
Trichlorofluoromethane	BC	BC	ND	BC
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	ND	ND	ND
Dimethyl Disulfide 1/2/	ND	ND	ND	ND
Xylenes (2 isomers) 1/	ND	ND	ND	ND
2-methyl-1-propanol 1/2/	ND	ND	ND	ND
Methyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Analysis Blank for Samples 79C 0348, 0350, 0353.
BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING SHEET

Valley of the Drums
Project Louisville, KY Chemist Charles Hooper Rec'd. 2/[illegible]/79 Compl'd. 3/10/79

Volatile Organic Analyses

D No.		79C0418	79C0421	79C0422
urce & Stn.	Lab Analysis Blank	AT-1	AT-2	AT-3
ite/Time	3/2/79	2/22/79 1600	2/22/79 1615	2/22/79 1625
MPOUND (UG/L)				
inyl Chloride	ND	ND	ND	T<5
ethylene Chloride	T<5	6.6	7.9	5.3
,1-dichloroethylene	ND	ND	ND	ND
rans-1,2-dichloroethylene	ND	T<5	T<5	75
hloroform	ND	ND	BC	BC
,1,1-trichloroethane	T<5	BC	BC	BC
arbon Tetrachloride	ND	ND	ND	ND
romodichloromethane	ND	ND	ND	ND
richloroethylene	T<5	BC	BC	BC
enzene	T<5	BC	BC	BC
ibromochloromethane	ND	ND	ND	ND
romoform	ND	ND	ND	ND
etrachloroethene	T<5	6.4	18	12
etrachloroethane	T<5	BC	BC	BC
oluene	T<5	BC	BC	340
hlorobenzene	ND	ND	ND	ND
thyl Benzene	T<5	ND	ND	69
cetone 1/	ND	ND	ND	ND
sopropanol 1/2/	ND	ND	ND	ND
Trichlorotrifluoroethane 1/2/	15	BC	BC	BC
ethyl Ethyl Ketone 1/	ND	ND	ND	ND
2-butanol 1/2/	ND	ND	ND	ND
Hexane 1/2/	11	BC	BC	BC
ethyl Isobutyl Ketone 1/	ND	ND	ND	330
2-hexanol 1/2/	ND	ND	ND	ND
ethyl Butyl Ketone 1/2/	ND	ND	ND	ND
Iso-octane 1/2/	19	ND	BC	BC
Trichlorofluoromethane	ND	ND	ND	BC
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	ND	ND	T<5
Dimethyl Disulfide 1/2/	ND	ND	ND	6
Xylenes (2 isomers) 1/	ND	ND	ND	ND
2-methyl-1-propanol 1/2/	ND	ND	ND	ND
ethyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING SHEET

Project Valley of the Drums Louisville, KY Chemist Charles Hooper Rec'd. 2/27/79 Comp'd. 3/10/79

Volatile Organic Analyses

AD No.	3/	79C0425	79C0426	79C0429
ource & Stn.	Lab Analyses Blank	AT-4	AT-5	AT-6
ate/Time	3-7-79	2/22/79 1635	2/22/79 1650	2/22/79 1700
OMPOUND (UG/L)				
inyl Chloride	ND	T<5	ND	ND
ethylene Chloride	T<5	BC	140	7.4
,1-dichloroethylene	ND	ND	BC	ND
rans-1,2-dichloroethylene	ND	26	36	T<5
hloroform	ND	BC	BC	BC
,1,1-trichloroethane	ND	BC	9.4	BC
Carbon Tetrachloride	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Trichloroethylene	ND	22	BC	BC
Benzene	T<5	BC	BC	BC
Dibromochloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Tetrachloroethene	T<5	5.7	12	6.2
Tetrachloroethane	T<5	BC	BC	BC
Toluene	T<5	160	180	BC
Chlorobenzene	ND	BC	BC	ND
Ethyl Benzene	ND	10	24	BC
Acetone 1/	ND	ND	400	ND
Isopropanol 1/2/	ND	ND	BC	ND
Trichlorotrifluoroethane 1/2/	17	BC	BC	BC
Methyl Ethyl Ketone 1/	ND	ND	470	ND
2-butanol 1/2/	ND	ND	T<5	ND
Hexane 1/2/	ND	ND	BC	BC
Methyl Isobutyl Ketone 1/	ND	880	1100	ND
2-hexanol 1/2/	ND	78	T<5	T<5
Methyl Butyl Ketone 1/2/	ND	ND	ND	ND
Iso-octane 1/2/	ND	ND	ND	BC
Trichlorofluoromethane	ND	BC	BC	ND
Pentane 1/2/	ND	ND	ND	ND
1,1-dichloroethane	ND	T<5	T<5	ND
Dimethyl Disulfide 1/2/	ND	ND	ND	ND
Xylenes (2 isomers) 1/	ND	630	400	ND
2-methyl-1-propanol 1/2/	ND	T<5	T<5	ND
Methyl-propyl-ketone 1/2/	ND	ND	ND	ND

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Analysis blank for Sample Nos. 79C0418, 0421, 0422.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING SHEETS

Valley of the Drums
Project Louisville, KY Chemist Charles H. Hooper Rec'd. 2/16/79 Rept'd. 3/10/79
Volatile Organic Analyses

AD No.	79C 0430	3/		
Source & Stn.	AT-7	Lab Analysis Blank		
Date/Time	2/22/79, 1715	3/8/79		
COMPOUND (UG/L)				
Vinyl Chloride	T<5	ND		
Methylene Chloride	BC	T<5		
1,1-dichloroethylene	ND	ND		
Trans-1,2-dichloroethylene	6.4	ND		
Chloroform	ND	T<5		
1,1,1-trichloroethane	BC	ND		
Carbon Tetrachloride	ND	ND		
Bromodichloromethane	ND	ND		
Trichloroethylene	BC	T<5		
Benzene	BC	T<5		
Dibromochloromethane	ND	ND		
Bromoform	ND	ND		
Tetrachloroethene	BC	T<5		
Tetrachloroethane	BC	T<5		
Toluene	160	T<5		
Chlorobenzene	BC	T<5		
Ethyl Benzene	31	T<5		
Acetone 1/	730	ND		
Isopropanol 1/2/	BC	ND		
Trichlorotrifluoroethane 1/2/	5.4	21		
Methyl Ethyl Ketone 1/	690	ND		
2-butanol 1/2/	T<5	ND		
Hexane 1/2/	7.3	5.9		
Methyl Isobutyl Ketone 1/	1600	ND		
2-hexanol 1/2/	37	ND		
Methyl Butyl Ketone 1/2/	ND	ND		
Iso-octane 1/2/	ND	ND		
Trichlorofluoromethane	ND	T<5		
Pentane 1/2/	ND	ND		
1,1-dichloroethane	T<5	ND		
Dimethyl Disulfide 1/2/	ND	ND		
Xylenes (2 isomers) 1/	340	ND		
2-methyl-1-propanol 1/2/	5.2	ND		
Methyl-propyl-ketone 1/2/	ND	ND		

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.

3/ - Analysis blank for 79C 0425,0426,0429,0430.

BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

DATA REPORTING [illegible]

Project Louisville, KY, Brickyard
Hardin County Chemist Charles Hooper [illegible] 2-[illegible]-79 [illegible] [illegible]-79

Volatile Organic Analyses

AD No.	79C0373	79C0376	3/	
Source & Stn.	Bee Branch BB-1	Bee Branch BB-2	Lab Analysis Blank	
Date/Time	2-13-79 1500	2-15-79 1530	2-28-79	
COMPOUND (UG/L)				
Vinyl Chloride	ND	ND	ND	
Methylene Chloride	BC	BC	T<5	
1,1-dichloroethylene	ND	ND	ND	
Trans-1,2-dichloroethylene	ND	ND	ND	
Chloroform	ND	ND	ND	
1,1,1-trichloroethane	BC	BC	T<5	
Carbon Tetrachloride	ND	ND	ND	
Bromodichloromethane	ND	ND	ND	
Trichloroethylene	BC	BC	T<5	
Benzene	BC	BC	T<5	
Dibromochloromethane	ND	ND	ND	
Bromoform	ND	ND	ND	
Tetrachloroethene	BC	BC	T<5	
Tetrachloroethane	BC	BC	T<5	
Toluene	BC	BC	T<5	
Chlorobenzene	ND	ND	T<5	
Ethyl Benzene	BC	ND	T<5	
Acetone 1/	ND	ND	ND	
Isopropanol 1/2/	ND	ND	ND	
Trichlorotrifluoroethane 1/2/	BC	BC	18	
Methyl Ethyl Ketone 1/	ND	ND	ND	
2-butanol 1/2/	ND	ND	ND	
Hexane 1/2/	BC	BC	7.3	
Methyl Isobutyl Ketone 1/	ND	ND	ND	
2-hexanol 1/2/	ND	ND	ND	
Methyl Butyl Ketone 1/2/	ND	ND	ND	
Iso-octane 1/2/	BC	BC	5.3	
Trichlorofluoromethane	ND	ND	ND	
Pentane 1/2/	ND	ND	ND	
1,1-dichloroethane	ND	ND	ND	
Dimethyl Disulfide 1/2/	ND	ND	ND	
Xylenes (2 isomers) 1/	ND	ND	ND	
2-methyl-1-propanol 1/2/	ND	ND	ND	
Methyl-propyl-ketone 1/2/	ND	ND	ND	

ND - None detected.
T - Trace
1/ - Estimated concentration.
2/ - Tentative identification based on published spectra.
BC - (Blank Contamination) Volatile organic compounds in the analysis blanks are indicative of laboratory contamination; therefore, data for the compound is not reported.

3/ - Lab analysis blank for Sample Nos, 79C0373, 0376

DATA REPORTING SHEET

Project Louisville, KY, Waste Sites

CHEMIST E. W. Loy, Jr. RECEIVED 2/16/79, 0830 COMPLETED 3/15/79

ANALYSES TO BE RUN								
SAD # 79C	STATION #	DATE SAMPLED	Chlorinated Organics MDL 5 ug/l		Nonchlorinated Organics MDL 1 ug/l		Site	
0344	PC-3 Pond Creek	2/13/79 1620	ND		ND		Valley of Drums	
0347	WUS-1 - U. T. Sweeney	2/14/79 1545	ND		ND		Valley of Drums	
0348	PC-002-Bridge on Hwy. 44	2/14/79 1200	ND		ND		Valley of Drums	
0354	SD-002-Bridge on Manslick Rd.	2/14/79 1020	ND		ND		Valley of Drums	
0367	WTK-1- T Kasey Res.	2/13/79 1735	ND		ND		13.68-Acre Farm	
0368	WHD-1- Harold Davis Res.	2/13/79 1725	ND		ND		13.68-Acre Farm	
0369	WCM-1 - Morris Res.	2/13/79 1710	ND		ND		13.68-Acre Farm	
0371	WFK-1 - Ft. Knox	2/13/79 1330	ND		ND		13.68-Acre Farm	
0372	WWP-1 - West Point	2/15/79 0945	ND		ND		13.68-Acre Farm	
0373	BB-1 - Upstream	2/13/79 1500	ND		ND		Brickyard, Hardin County	
0376	BB-2 - Downstream	2/13/79 1530	ND		ND		Brickyard, Hardin County	
0346	WCJ-1 Carlile Judd Res.	2/14/79 1500	ND		ND		Valley of Drums	
	MDL - Minimum Detection Limit							
	ND - None detected.							

Project Louisville, KY Chemist [illegible] 2-16-79 [illegible] 3-16-7

Extractable Organic Analyses

SAD No.	79C0350			
Source & Stn.	Water - SD-001 Bridge on turnpike			
Date/Time	2-14-79, 0900			
COMPOUND (UG/L) (Estimated)				
Diethyl Phthalate 2/	1.9			
Dihydrotrimethylpurinedione 1/	5.7			
5 unidentified compounds in the 1-10-ug/l range.				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project [illegible] Drums Louisville, KY Chemist E. W. Loy, Jr. [illegible] 2-16-79 [illegible] 3-16-7

Extractable Organic Analyses

SAD No.	79C0353			
Source & Stn.	Water-PC-001-Pond Crk. Bridge			
Date/Time	2-14-79, 1115			
COMPOUND (UG/L) - (estimated)				
Diethyl Phthalate 2/	1.1			
Dihydrotrimethylpurinedione 1/	T<1			
Bis(2-ethylhexyl) Phthalate 2/	T<1			
1 Unidentified Compound	1-10			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. Date 2-16-79 Date 3-16-7

Extractable Organic Analyses

SAD No.	79C0357			
Source & Stn.	Water - WC-001 Confluence, Wilson Creek			
Date/Time	2-13-79 1345			
COMPOUND (UG/L) (Estimated)				
Xylene	6.3			
Hexanone 1/	4.7			
Butoxy Propanol 1/	11			
Heptanone 1/	62			
Cyclohexanone 1/	5.1			
Dibutoxy Methanol 1/	3.8			
C_3 Alkyl Benzene 1/	3.8			
C_4 Alkyl Benzene (2 isomers) 1/	9.6			
Methoxymethylethoxy Propanol 1/	4.9			
Dimethyl Benzene Methanol 1/	7.0			
Methyl (propenyloxy)Ethoxy Propanol 1/	50			
Dibutoxy Propanol 1/	8.9			
Dihydroindenone 1/	1.9			
Tetraoxadodecane 1/	7.0			
Diethyl Phthalate 2/	18			
Pentaoxapentadecane 1/	19			
Bis(2-ethylhexyl) Phthalate 2/	T<1			
Phenol 2/	T<1			
Dimethyl Phenol	T<1			
Ethyl Hexanoic Acid 1/	35			
Methyl Ester of Ethyl Hexanoic Acid 1/	32			
Dimethyl Propanol 1/	23			
Methyl Benzoic Acid 1/	14			
C_3 Alkyl Benzoic Acid 1/	12			
C_4 Alkyl Benzoic Acid 1/	8.7			
21 Unidentified Compounds in the 1-10 ug/1 range				
6 Unidentified Compounds in the 10-100 ug/1 range				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-16-79 Comp'd. 3-16-79

Extractable Organic Analyses

SAD No.	79C0361			
Source & Stn.	Water - WC-004 190 Yds Downstream from WC-003			
Date/Time	2-13-79, 1515			
COMPOUND (UG/L) (Estimated)				
Xylene (2 Isomers)	13			
Heptanol 1/	11			
Heptanone 1/	35			
Dibutoxy Methanol 1/	1.0			
C_3 Alkyl Benzene 1/	1.0			
C_4 Alkyl Benzene 1/	1.8			
α,α-Dimethyl Benzene Methanol 1/	6.3			
Methyl (Propenyloxy) Ethoxy Propanol 1/	17			
Naphthalene 2/	T<1.0			
Dibutoxy Propanol 1/	2.3			
Tetraoxadodecane 1/	1.8			
Diethyl Phthalate 1/	4.0			
Pentaoxapentadecane 1/	5.1			
Methyl Pentanoic Acid 1/	6.1			
Ethyl Hexanoic Acid 1/	25			
Methyl Ester of Ethyl Hexanoic Acid 1/	13			
Dimethyl Propanol 1/	6.2			
Phenol 2/	T<1			
18 Unidentified Compounds in the 1-10 ug/l range.				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-16-79 Comp'd. 3-16-79

Extractable Organic Analyses

SAD No.	79C0362			
Source & Stn.	Water-WC-003, 180 Yds. Downs-stream from WC-002			
Date/Time	2-13-79, 1445			
COMPOUND (UG/L) (Estimated)				
Xylene (2 Isomers)	22			
Heptanol 1/	15			
Butoxy Propanol 1/	12			
Heptanone 1/	48			
Dibutoxy Methanol 1/	3.3			
C_4 Alkyl Benzene (3 Isomers) 1/	9.2			
α,α Dimethyl Benzene Methanol 1/	8.4			
C_2 Alkyl Styrene	T<1.0			
Methyl (Propenyloxy) Ethoxy Propanol 1/	22			
Naphthalene 2/	T<1.0			
Dibutoxy Propanol 1/	2.2			
Tetraoxadodecane 1/	2.2			
Diethyl Phthalate 1/	11			
Pentaoxapentadecane 1/	6.2			
Methyl Pentanoic Acid 1/	1-15			
Ethyl Hexanoic Acid 1/	33			
Methyl Ester of Ethyl Hexanoic Acid 1/	16			
Dimethyl Propanol 1/	1-15			
Benzoic Acid 1/	1-15			
Methyl Benzoic Acid (2 Isomers) 1/	1-15			
C_4 Alkyl Benzoic Acid 1/	1-15			
Phenol 2/	T<1			
15 Unidentified Compounds in the 1-10-ug/l range				
2 Unidentified Compounds in the 10-100-ug/l range				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-27-79 Rep. Date 3-16-79

Extractable Organic Analyses

LAB No.	79C0418			
Source & Stn.	Water - AT-1			
Date/Time	2-22-79, 1600			
COMPOUND (UG/L)				
Trimethyl Pentanediol 1/	6.7			
Trimethylhexene 1/	4.8			
Diethyl Phthalate 2/	9.4			
Methyl Propoxy Propanol 1/	5.7			
Hydroxy Propoxy Propanol 1/	3.2			
Di-n-butyl Phthalate 2/	39			
Bis(2-ethylhexyl) Phthalate 2/	13			
1 Unidentified Compound in the 100-ug/l Range				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Valley of the Drums
Project Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-27-79 Comp. 3-16-79

Extractable Organic Analyses

LAB No.	79C0421			
Source & Stn.	Water - AT-2			
Date/Time	2-22-79, 1615			
COMPOUND (UG/L) (Estimated)				
Methyl Heptenone 1/	4.5			
Tetraoxadodecane 1/	220			
Diethyl Phthalate 2/	17			
Pentaoxapentadecane (2 isomers) 1/	320			
Bis(2-ethylhexyl) Phthalate 2/	45			
Dibutyl Phthalate 2/	7.5			
Methyl Benzene Sulfonamide 1/	3.9			
7 Unidentified Compounds	1-10			
6 Unidentified Compounds	10-100			
1 Unidentified Compound	100-500			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums
Louisville, KY

Chemist E. W. Ley, Jr. Rec'd 2-27-79 Comp'd 3-16-79

Extractable Organic Analyses

SAD No.	79C0422			
Source & Stn.	Water AT-3			
Date/Time	2-22-79, 1625			
COMPOUND (UG/L) (Estimated)				
Xylene	260			
Dibutyl Ether 1/	5.6			
C_3 Alkyl Benzene (3 isomers) 1/	64			
Hydroxy Methyl Pentanone 1/	24			
Methyl Styrene (2 isomers) 1/	48			
Dibutoxy Methanol (3 isomers) 1/	65			
C_4 Alkyl Benzene (4 Isomers) 1/	22			
Trimethyl Cyclohexanone 1/	32			
C_2 Alkyl Styrene (2 isomers) 1/	4.7			
C_5 Alkyl Benzene 1/	1.4			
Methyl (Propenyloxy) Ethoxy Propanol 1/	24			
C_3 Alkyl Phenol 1/	11			
Naphthalene 2/	1.9			
Isophorone 2/	49			
C_3 Alkyl Styrene (2 isomers) 1/	2.5			
Tetraoxadodecane 1/	6.6			
Diethyl Phthalate 2/	42			
Propoxy Butane 1/	3.8			
Methyl Propyl Ester of Benzoic Acid 1/	7.5			
Pentaoxapentadecane (2 isomers) 1/	27			
Dibutyl Phthalate 2/	5.6			
Bis (2-ethylhexyl) Phthalate 2/	3.8			
α,α-Dimethyl Benzene Methanol 1/	5.6			
Methyl Phenol	1-10			
C_2 Alkyl Phenol (3 isomers)	96			
Methyl Benzoic Acid (2 isomers) 1/	10-100			
C_2 Alkyl Benzoic Acid (2 isoms.) 1/	10-100			
Hydroxy Methoxy Benzaldehyde 1/	1-10			
18 Unidentified Compounds	1-10			
11 Unidentified Compounds	10-100			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-27-79 Comp'd. 3-16-79

Extractable Organic Analyses

SAD No.	79C0425			
Source & Stn.	Water - AT<4			
Date/Time	2-22-79, 1635			
COMPOUND (UG/L) (Estimated)				
Xylene (2 Isomers)	120			
Naphthalene 2/	T<1			
Butoxy Propanol 1/	35			
Hexenol 1/	28			
Hydroxy Methyl Pentanone 1/	170			
C_3 Alkyl Benzene (2 Isomers) 1/	21			
Tetra Methyl Pentanone 1/	6.2			
Dibutoxy Methanol (3 Isomers) 1/	150			
α,α-Dimethyl Benzene Methanol 1/	27			
C_4 Alkyl Benzene 1/	11			
C_2 Alkyl Styrene 1/	6.2			
Methyl (Propenyloxy) Ethoxy Propanol 1/	110			
Isophorone 2/	20			
Butoxy Ethoxy Ethanol 1/	12			
Quinoline	4.9			
Acenaphthene 2/	11			
Dimethyl Phthalate 2/	8.7			
Tetraoxadodecane 1/	20			
Diethyl Phthalate 2/	4.9			
Dibutyl Phthalate 2/	10			
Fluoranthene 2/	4.9			
Bis(2-ethylhexyl) Phthalate 2/	4.9			
Methyl Phenol	1-10			
Dimethyl Phenol (2 Isomers)	1-10			
Ethyl Hexanoic Acid 1/	42			
Dimethyl Propanol 1/	10-100			
Phthalic Acid 1/	1-10			
Methyl Benzoic Acid (2 Isomers) 1/	10-100			
C_2 Alkyl Benzoic Acid 1/	1-10			
C_3 Alkyl Benzoic Acid 1/	1-10			
C_4 Alkyl Benzoic Acid 1/	1-10			
Phenol 2/	T<1			
16 Unidentified Compounds	1-10			
11 Unidentified Compounds	10-100			
1 Unidentified Compound	100-1000			

MDL - Method Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Valley of the Drums
Project Louisville, KY Chemist E. W. Loy, Jr. Rec'd: 2-27-79 Rep'd: 3-16-79
Extractable Organic Analyses

CAD No.	79C0426			
Source & Stn.	Water - AT-5			
Date/Time	2-22-79, 1650			
COMPOUND (UG/L) (Estimated)				
Xylene (2 Isomers)	470			
Naphthalene 2/	4.5			
Heptanol (2 Isomers) 1/	14			
Hexenol 1/	9.6			
Hydroxy Methyl Pentanone 1/	220			
Heptanone 1/	220			
C_3 Alkyl Benzene 1/	7.2			
Cyclohexanone 1/	2.4			
C_4 Alkyl Benzene (4 Isomers) 1/	26			
Indene 1/	2.4			
Methyl (Methylethenyl) Cyclo-hexanol 1/	62			
α-Terpineol	400			
Terpinene-4-ol	113			
Camphor	230			
Isophorone 2/	19			
Quinoline	9.6			
Methyl Naphthalene (2 Isomers)	9.6			
Acenaphthene 2/	12			
Dibenzofuran	4.8			
Dimethyl Phthalate 2/	9.6			
Tetraoxadodecane 1/	7.2			
Beta-naphthonitrile 1/	4.8			
Fluorene 2/	7.2			
Diethyl Phthalate 2/	29			
Tributyl Ester of Phosphoric Acid 1/	7.2			
Methyl Propyl Ester of Benzoic Acid (2 Isomers) 1/	17			
Phenanthrene/Anthracene 2/	5.7			
Butyl Methyl Benzene Sulfonamide 1/	17			
Dibutyl Phthalate 2/	9.6			
Fluoranthene 2/	7.2			
Pyrene 2/	7.2			
Bis(2-ethylhexyl) Phthalate 2/	36			
Dibutoxy Methanol 1/	86			
Methyl Octanone 1/	7.2			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project [illegible] Chemist E. W. Loy, Jr. Date [illegible] 3-16-79

Extractable Organic Analyses

LAB No.	79C0426 (Continued - P. 2)			
Source & Stn.	Water - AT-5			
Date/Time	2-22-79, 1650			
COMPOUND (UG/L) (Estimated)				
Phenol 2/	T<1			
Methyl Phenol	1-25			
Ethyl Hexanoic Acid 1/	10-100			
C_2 Alkyl Phenol (2 Isomers) 1/	1-25			
Methyl Ester of Ethyl Hexanoic Acid 1/	1-25			
C_4 Alkyl Phenol 1/	1-25			
Phthalic Acid 1/	1-25			
Benzoic Acid 1/	1-25			
Methyl Benzoic Acid (2 Isomers) 1/	1-25			
C_2 Alkyl Benzoic Acid 1/	1-25			
C_3 Alkyl Benzoic Acid 1/	1-25			
C_4 Alkyl Benzoic Acid 1/	1-25			
Hydroxy Methoxy Benzaldehyde 1/	1-25			
Benzene Propanoic Acid 1/	1-25			
Methyl Benzene Sulfonomide 1/	1-25			
24 Unidentified Compounds	1-10			
13 Unidentified Compounds	10-100			
3 Unidentified Compounds	100-500			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Valley of the Drums
ject Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-27-79 Comp'd. 3-10-79
Extractable Organic Analyses

No.	79C0429			
rce & Stn.	Water - AT-6			
e/Time	2-22-79, 1700			
POUND (UG/L) (Estimated)				
ene (2 Isomers)	62			
droxymethyl Pentanone 1/	28			
utoxy Methanol (3 Isomers) 1/	15			
Alkyl Benzene (2 Isomers) 1/	5.7			
imethyl Cyclohexanone 1/	15			
-Dimethyl Benzene Methanol 1/	19			
thyl Benzene Methanol 1/	1.2			
ophorone 2/	15			
enyl Ether	1.4			
rbonic Acid, Butyl Phenyl Ester 1/	3.5			
imethyl Phthalate 2/	13			
etraoxadodecane 1/	2.7			
iethyl Phthalate 2/	26			
ropoxy Butane 1/	1.2			
entaoxapentadecane 1/	4.7			
i-n-butyl Phthalate 2/	16			
luoranthene 2/	T<1.0			
is(2-ethylhexyl) Phthalate 2/	7.4			
ethyl Phenol	1-10			
imethyl Phenol (3 Isomers)	1-10			
thyl Hexanoic Acid 1/	10-100			
exanoic Acid 1/	32			
enzoic Acid 1/	1-10			
ethyl Benzoic Acid (2 Isomers) 1/	1-10			
C_4 Alkyl Benzoic Acid 1/	1-10			
ydroxy Methoxy Benzaldehyde 1/	1-10			
entachlorophenol 2/	4.3			
henol 2/	T<1			
0 Unidentified Compounds in the 1-10 ug/l range				
Unidentified Compound in the 10-100 ug/l range				

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Valley of the Drums
Project Louisville, KY Chemist E. W. Loy, Jr. Rec'd. 2-27-79 Comp'd. 3-16-79

Extractable Organic Analyses

AD No.	79C0430			
ource & Stn.	Water - AT-7			
ate/Time	2-22-79, 1715			
OMPOUND (UG/L) (Estimated)				
ylene (2 Isomers)	380			
Iethyl Pentanol 1/	3.7			
Iethyl Cyclopentanol 1/	42			
)imethyl Pentanone 1/	37			
Butoxyethanol 1/	73			
Methyl Hydroxy Pentanone 1/	200			
C_3 Alkyl Benzene (3 Isomers) 1/	24			
Cyclohexanone 1/	66			
Dibutoxymethanol (2 Isomers) 1/	60			
Methyl Styrene 1/	9			
C_4 Alkyl Benzene (5 Isomers) 1/	28			
α;α Dimethyl Benzene Methanol 1/	86			
C_2 Alkyl Styrene 1/	7.3			
Methyl Benzene Methanol 1/	7.3			
Isophorone 2/	37			
Phenoxy Methyl Oxirane 1/	15			
Phenyl Ether	2.7			
Chlorophenoxypropanol 1/	18			
Dimethyl Phthalate 2/	16			
Phenoxypropanediol 1/	57			
Tetraoxadodecane 1/	29			
Diethyl Phthalate 2/	44			
Methyl Propyl Ester of Benzoic Acid 1/	3.7			
Pentaoxapentadecane 1/	9.1			
Bis (2-ethylhexyl) Phthalate 2/	3.7			
Methyl Butanoic Acid 1/	10-50			
Pentanoic Acid 1/	1-10			
Phenol 2/	44			
Methyl Phenol	10-50			
C_2 Alkyl Phenol (3 Isomers)	1-10			
C_4 Alkyl Phenol 1/	1-10			
Ethyl Hexanoic Acid 1/	10-50			
Dimethyl Propanol 1/	10-50			
Phthalic Acid 1/	1-10			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Chemist E. W. Loy, Jr. Date 3-16-79

Extractable Organic Analyses

AD No.	79C0430 (continued - p. 2)			
Source & Stn.	Water - AT-7			
Date/Time	2-22-79, 1715			
COMPOUND (UG/L) - (Estimated)				
Benzoic Acid 1/	10-50			
Methyl Benzoic Acid (2 Isomers) 1/	10-50			
C_2 Alkyl Benzoic Acid 1/	1-10			
C_4 Alkyl Benzoic Acid 1/	1-10			
Methyl Benzene Sulfonamide 1/	1-10			
24 Unidentified Compounds	1-10			
15 Unidentified Compounds	10-100			

MDL - Minimum Detection Limit

ND - None Detected.

T - Trace

1/ - Tentative Identification.

2/ - On NRDC List of Priority Pollutants.

Project Valley of the Drums Louisville, KY Chemist E. W. Loy, Jr. [illegible] 2-16-79 [illegible] 3-16-79

Extractable Organic Analyses

SAD No.	79C0358			
Source & Stn.	Water-WC-002 170 Yds downst.			
Date/Time	2-13-79, 1415			
COMPOUND (UG/L) (Estimated)				
Xylene (2 isomers)	68			
Naphthalene 2/	3.6			
Hexanone 1/	6.4			
Heptanol 1/	48			
Hexenol 1/	19			
Heptanone 1/	108			
C_3 Alkyl Benzene (2 isomers) 1/	9			
C_4 Alkyl Benzene (7 isomers) 1/	40			
α,α -Dimethyl Benzene Methanol 1/	18			
C_2 Alkyl Styrene 1/	5			
Methyl (Propenyloxy) Ethoxy Propanol 1/	61			
Dibutoxy Propanol 1/	5			
Tetraoxadodecane 1/	16			
Pentaoxapentadecane 1/	30			
Dibutoxy Methanol	4			
Methylpropanoic Acid 1/	1-10			
Methyl Butanoic Acid (2 isomers) 1/	1-10			
Phenol 2/	1-10			
Methyl Pentanoic Acid 1/	1-10			
Butanoic Acid 1/	1-10			
C_2 Alkyl Phenol (2 isomers)	1-10			
2-Ethyl Hexanoic Acid 1/	100			
Methyl Ester of Ethylhexanoic Acid 1/	10-100			
Butoxybutanoic Acid 1/	1-10			
Benzoic Acid 1/	1-10			
Methyl Benzoic Acid (2 isomers) 1/	1-10			
C_2 Alkyl Benzoic Acid 1/	1-10			
C_3 Alkyl Benzoic Acid (2 isomers) 1/	1-10			
Trimethyl Pentanone 1/	1-10			
C_4 Alkyl Benzoic Acid 1/	1-10			
12 Unidentified Compounds	1-10			
5 Unidentified Compounds	10-100			

NDL - Minimum Detection Limit

NO - Not Detected

T - Trace

1/ - Tentative Identification.

2/ - On NEDC List of Priority Pollutants.