Ohio EPA Ohio Environmental Protection Agency

Maumee River REMEDIAL ACTION PLAN

Stage I Investigation Report

Appendices

October 1990

Maumee River Remedial Action Plan Advisory Committee

APPENDIX A

Ohio EPA *Biological Water Quality Report*
Sediment Data: Priority Pollutants

APPENDIX A
SEDIMENT DATA: VOLATILE ORGANICS

MAUMEE RIVER RA 1.0
DOWNSTREAM OF TOLEDO WWTP

: SAMPLE NUMBER :
:
: V162924 R :

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TRA/ERG
CASE NO: AS036
LAB SAMPLE ID NO: V162924R
QC REPORT NO:
SAMPLE MATRIX: SOIL
CONTRACT NO:
DATA RELEASE AUTHORIZED BY: Josephine Kratt DATE SAMPLE RECEIVED: 11/16/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 12/02/86
DATE ANALYZED: 12/02/86
DIL FACTOR: 9.434 PH 7.38
PERCENT MOISTURE: (NOT DECANTED) 61.0

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
74-87-3	CHLOROMETHANE	240.	U	78-87-5	1,2-DICHLOROPROPANE	120.	U
74-83-9	BROMOMETHANE	240.	U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	120.	U
75-01-4	VINYL CHLORIDE	240.	U	79-01-6	TRICHLOROETHENE	120.	U
75-00-3	CHLOROETHANE	240.	U	124-48-1	DIBROMOCHLOROMETHANE	120.	U
75-09-2	METHYLENE CHLORIDE	270.	B	79-00-5	1,1,2-TRICHLOROETHANE	120.	U
67-64-1	ACETONE	180.	BJ	71-43-2	BENZENE	120.	U
75-15-0	CARBON DISULFIDE	120.	U	10061-01-5	CIS-1,3-DICHLOROPROPENE	120.	U
75-35-4	1,1-DICHLOROETHENE	120.	U	110-75-8	2-CHLOROETHYL VINYLETHER	240.	U
75-34-3	1,1-DICHLOROETHANE	120.	U	75-25-2	BROMOFORM	120.	U
156-60-5	TRANS-1,2-DICHLOROETHENE	120.	U	108-10-1	4-METHYL-2-PENTANONE	240.	U
67-66-3	CHLOROFORM	120.	U	591-78-6	2-HEXANONE	240.	U
107-06-2	1,2-DICHLOROETHANE	120.	U	127-18-4	TETRACHLOROETHENE	120.	U
78-93-3	2-BUTANONE	240.	U	79-34-5	1,1,2,2-TETRACHLOROETHANE	240.	U
71-55-6	1,1,1-TRICHLOROETHANE	120.	U	108-88-3	TOLUENE	1300.	
56-23-5	CARBON TETRACHLORIDE	120.	U	108-90-7	CHLOROBENZENE	120.	U
108-05-4	VINYL ACETATE	240.	U	100-41-4	ETHYLBENZENE	120.	U
75-27-4	BROMODICHLOROMETHANE	120.	U	100-42-5	STYRENE	120.	U
					TOTAL XYLENES	120.	U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: TRA/ERG
CASE NO: OHIOEPAS036

: SAMPLE NUMBER :
: 162924 :
:

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/27/87
CONC/DIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 61.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	850.	U	83-32-9	ACENAPHTHENE	850.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	850.	U	51-28-5	2,4-DINITROPHENOL	4100.	U
95-57-8	2-CHLOROPHENOL	850.	U	100-02-7	4-NITROPHENOL	4100.	U
541-73-1	1,3-DICHLOROBENZENE	850.	U	132-64-9	DIBENZOFURAN	850.	U
106-46-7	1,4-DICHLOROBENZENE	850.	U	121-14-2	2,4-DINITROTOLUENE	850.	U
100-51-6	BENZYL ALCOHOL	850.	U	606-20-2	2,6-DINITROTOLUENE	850.	U
95-50-1	1,2-DICHLOROBENZENE	850.	U	84-66-2	DIETHYLPHTHALATE	850.	BU
95-48-7	2-METHYLPHENOL	850.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	850.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	850.	U	86-73-7	FLUORENE	250.	J
106-44-5	4-METHYLPHENOL	1400.		100-10-6	4-NITROANILINE	4100.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	850.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	4100.	U
67-72-1	HEXACHLOROETHANE	850.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	850.	U
98-95-3	NITROBENZENE	850.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	850.	U
78-59-1	ISOPHORONE	850.	U	118-74-1	HEXACHLOROBENZENE	850.	U
88-75-5	2-NITROPHENOL	850.	U	87-86-5	PENTACHLOROPHENOL	4100.	U
105-67-9	2,4-DIMETHYLPHENOL	850.	U	85-01-8	PHENANTHRENE	1000.	
65-85-0	BENZOIC ACID	4100.	U	120-12-7	ANTHRACENE	490.	BJ
111-91-1	BIS(2-CHLOROETHOXY)METHANE	850.	U	84-74-2	DI-N-BUTYLPHTHALATE	850.	BU
120-83-2	2,4-DICHLOROPHENOL	850.	U	206-44-0	FLUORANTHENE	2100.	
120-82-1	1,2,4-TRICHLOROBENZENE	850.	U	129-00-0	PYRENE	1900.	
91-20-3	NAPHTHALENE	380.	BJ	85-68-7	BUTYLBENZYLPHTHALATE	850.	U
106-47-8	4-CHLOROANILINE	850.	U	91-94-1	3,3'-DICHLOROBENZIDINE	1700.	U
87-68-3	HEXACHLOROBUTADIENE	850.	U	56-55-3	BENZO(A)ANTHRACENE	1000.	
59-50-7	4-CHLORO-3-METHYLPHENOL	850.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	8400.	B
91-57-6	2-METHYLNAPHTHALENE	850.	U	218-01-9	CHRYSENE	1200.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	850.	U	117-84-0	DI-N-OCTYL PHTHALATE	2000.	
88-06-2	2,4,6-TRICHLOROPHENOL	850.	U	205-99-2	BENZO(B)FLUORANTHENE	880.	
95-95-4	2,4,5-TRICHLOROPHENOL	4100.	U	207-08-9	BENZO(K)FLUORANTHENE	990.	
91-58-7	2-CHLORONAPHTHALENE	850.	U	50-32-8	BENZO(A)PYRENE	910.	
88-74-4	2-NITROANILINE	4100.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	890.	
131-11-3	DIMETHYL PHTHALATE	850.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	820.	J
208-96-8	ACENAPHTHYLENE	850.	U	191-24-2	BENZO(G,H,I)PERYLENE	1100.	
99-09-2	3-NITROANILINE	4100.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: THA/ERG, Inc.
Case No: OEPA AS035

Sample Number: 162924

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 61

GPC Cleanup ☑Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	21	U
319-85-7	Beta-BHC	21	U
319-86-8	Delta-BHC	21	U
58-89-9	Gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor Epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	42	U
72-55-9	4, 4'-DDE	42	U
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	42	U
72-54-8	4, 4'-DDD	42	U
1031-07-8	Endosulfan Sulfate	42	U
50-29-3	4, 4'-DDT	42	U
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin Ketone	42	U
57-74-9	Chlordane	210	U
8001-35-2	Toxaphene	420	U
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	420	U
	Minus	42	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 12g DRY WT. V_t 1000 ml V_i 3.0 ml

MAUMEE RIVER RM 4.9
AT CLAY ST. BRIDGE

: SAMPLE NUMBER :
: V162923R3 :

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: THA/ERG — CASE NO: AS035
LAB SAMPLE ID NO: V162923R3 — QC REPORT NO:
SAMPLE MATRIX: SOIL — CONTRACT NO:
DATA RELEASE AUTHORIZED BY: Joseph C. Hufnagel — DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 11/21/86
CONC/DIL FACTOR: 1. PH 7.53
PERCENT MOISTURE: (NOT DECANTED) 55.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	22. U	78-87-5	1,2-DICHLOROPROPANE	11. U
74-83-9	BROMOMETHANE	22. U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	11. U
75-01-4	VINYL CHLORIDE	22. U	79-01-6	TRICHLOROETHENE	11. U
75-00-3	CHLOROETHANE	22. U	124-48-1	DIBROMOCHLOROMETHANE	11. U
75-09-2	METHYLENE CHLORIDE	51. B	79-00-5	1,1,2-TRICHLOROETHANE	11. U
67-64-1	ACETONE	64.	71-43-2	BENZENE	11. U
75-15-0	CARBON DISULFIDE	11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE	11. U
75-35-4	1,1-DICHLOROETHENE	11. U	110-75-8	2-CHLOROETHYLVINYLETHER	22. U
75-34-3	1,1-DICHLOROETHANE	11. U	75-25-2	BROMOFORM	11. U
156-60-5	TRANS-1,2-DICHLOROETHENE	11. U	108-10-1	4-METHYL-2-PENTANONE	22. U
67-66-3	CHLOROFORM	11. U	591-78-6	2-HEXANONE	22. U
107-06-2	1,2-DICHLOROETHANE	11. U	127-18-4	TETRACHLOROETHENE	11. U
78-93-3	2-BUTANONE	22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	22. U
71-55-6	1,1,1-TRICHLOROETHANE	11. U	108-88-3	TOLUENE	11. U
56-23-5	CARBON TETRACHLORIDE	11. U	108-90-7	CHLOROBENZENE	11. U
108-05-4	VINYL ACETATE	22. U	100-41-4	ETHYLBENZENE	11. U
75-27-4	BROMODICHLOROMETHANE	11. U	100-42-5	STYRENE	11. U
				TOTAL XYLENES	11. U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: THA/ERG
CASE NO: OHIOEPA5035

SAMPLE NUMBER
162923

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/27/87
CONC/DIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 55.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	730.	U	83-32-9	ACENAPHTHENE	1600.	
111-44-4	BIS(2-CHLOROETHYL)ETHER	730.	U	51-28-5	2,4-DINITROPHENOL	3600.	U
95-57-8	2-CHLOROPHENOL	730.	U	100-02-7	4-NITROPHENOL	3600.	U
541-73-1	1,3-DICHLOROBENZENE	730.	U	132-64-9	DIBENZOFURAN	1300.	
106-46-7	1,4-DICHLOROBENZENE	730.	U	121-14-2	2,4-DINITROTOLUENE	730.	U
100-51-6	BENZYL ALCOHOL	730.	U	606-20-2	2,6-DINITROTOLUENE	730.	U
95-50-1	1,2-DICHLOROBENZENE	730.	U	84-66-2	DIETHYLPHTHALATE	730.	BU
95-48-7	2-METHYLPHENOL	730.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	730.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	730.	U	86-73-7	FLUORENE	2500.	
106-44-5	4-METHYLPHENOL	730.	U	100-10-6	4-NITROANILINE	3600.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	730.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	3600.	U
67-72-1	HEXACHLOROETHANE	730.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	730.	U
98-95-3	NITROBENZENE	730.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	730.	U
78-59-1	ISOPHORONE	730.	U	118-74-1	HEXACHLOROBENZENE	730.	U
88-75-5	2-NITROPHENOL	730.	U	87-86-5	PENTACHLOROPHENOL	3600.	U
105-67-9	2,4-DIMETHYLPHENOL	730.	U	85-01-8	PHENANTHRENE	11000.	
65-85-0	BENZOIC ACID	3600.	U	120-12-7	ANTHRACENE	6400.	B
111-91-1	BIS(2-CHLOROETHOXY)METHANE	730.	U	84-74-2	DI-N-BUTYLPHTHALATE	940.	B
120-83-2	2,4-DICHLOROPHENOL	730.	U	206-44-0	FLUORANTHENE	11000.	
120-82-1	1,2,4-TRICHLOROBENZENE	730.	U	129-00-0	PYRENE	7300.	
91-20-3	NAPHTHALENE	770.	B	85-68-7	BUTYLBENZYLPHTHALATE	730.	U
106-47-8	4-CHLOROANILINE	730.	U	91-94-1	3,3'-DICHLOROBENZIDINE	1500.	U
87-68-3	HEXACHLOROBUTADIENE	730.	U	56-55-3	BENZO(A)ANTHRACENE	3900.	
59-50-7	4-CHLORO-3-METHYLPHENOL	730.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1100.	B
91-57-6	2-METHYLNAPHTHALENE	790.		218-01-9	CHRYSENE	4000.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	730.	U	117-84-0	DI-N-OCTYL PHTHALATE	730.	U
88-06-2	2,4,6-TRICHLOROPHENOL	730.	U	205-99-2	BENZO(B)FLUORANTHENE	1900.	
95-95-4	2,4,5-TRICHLOROPHENOL	3600.	U	207-08-9	BENZO(K)FLUORANTHENE	2100.	
91-58-7	2-CHLORONAPHTHALENE	730.	U	50-32-8	BENZO(A)PYRENE	2300.	
88-74-4	2-NITROANILINE	3600.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	1500.	
131-11-3	DIMETHYL PHTHALATE	730.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	970.	
208-96-8	ACENAPHTHYLENE	730.	U	191-24-2	BENZO(G,H,I)PERYLENE	1800.	
99-09-2	3-NITROANILINE	3600.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: THA/E.R.G. Inc.
Case No: OEPA A5035

Sample Number
162923

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 55

GPC Cleanup ☑ Yes ☐ No
Separatory Funnel Extraction ☐ Yes
Continuous Liquid - Liquid Extraction ☐ Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	18	U
319-85-7	Beta-BHC	18	U
319-86-8	Delta-BHC	18	U
58-89-9	Gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor Epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	36	U
72-55-9	4,4'-DDE	36	U
72-20-8	Endrin	36	U
33213-65-9	Endosulfan II	36	U
72-54-8	4,4'-DDD	36	U
1031-07-8	Endosulfan Sulfate	36	U
50-29-3	4,4'-DDT	36	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin Ketone	36	U
57-74-9	Chlordane	180	U
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	360	U
11096-82-5	Aroclor-1260	360	U
	Mirex	36	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ____ or W_s 14g (DRY WT.) V_t 1000 ul V_i 3.0 ul

MAUMEE RIVER RM 9.4

! SAMPLE NUMBER !
!
!V162722R !

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TNA/ERS
CASE NO: A5035
LAB SAMPLE ID NO: V162722R
GC REPORT NO:
SAMPLE MATRIX: SOIL
CONTRACT NO:
DATA RELEASE AUTHORIZED BY Joseph A. Hutchison DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC FACTOR: 1.041666 PH 7.58
PERCENT MOISTURE: (NOT DECANTED) 54.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	22. U	78-87-5	1,2-DICHLOROPROPANE	11. U
74-83-9	BROMOMETHANE	22. U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	11. U
75-01-4	VINYL CHLORIDE	22. U	79-01-6	TRICHLOROETHENE	6.0J
75-00-3	CHLOROETHANE	22. U	124-48-1	DIBROMOCHLOROMETHANE	11. U
75-09-2	METHYLENE CHLORIDE	15. B	79-00-5	1,1,2-TRICHLOROETHANE	11. U
67-64-1	ACETONE	6.0J	71-43-2	BENZENE	11. U
75-15-0	CARBON DISULFIDE	11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE	11. U
75-35-4	1,1-DICHLOROETHENE	11. U	110-75-8	2-CHLOROETHYLVINYLETHER	22. U
75-34-3	1,1-DICHLOROETHANE	11. U	75-25-2	BROMOFORM	11. U
156-60-5	TRANS-1,2-DICHLOROETHENE	11. U	108-10-1	4-METHYL-2-PENTANONE	22. U
67-66-3	CHLOROFORM	11. U	591-78-6	2-HEXANONE	22. U
107-06-2	1,2-DICHLOROETHANE	11. U	127-18-4	TETRACHLOROETHENE	11. U
78-93-3	2-BUTANONE	22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	22. U
71-55-6	1,1,1-TRICHLOROETHANE	11. U	108-88-3	TOLUENE	11. U
56-23-5	CARBON TETRACHLORIDE	11. U	108-90-7	CHLOROBENZENE	11. U
108-05-4	VINYL ACETATE	22. U	100-41-4	ETHYLBENZENE	11. U
75-27-4	BROMODICHLOROMETHANE	11. U	100-42-5	STYRENE	11. U
				TOTAL XYLENES	11. U

B - COMPOUND WAS DETECTED IN THE GC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: TNA/ERS
CASE NO: DEPA5038

! SAMPLE NUMBER !
! 162922 !
!

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/28/87
CONC/DIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 56.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
108-95-2	PHENOL	750. U	83-32-9	ACENAPHTHENE	750. U
111-44-4	BIS(2-CHLOROETHYL)ETHER	750. U	51-28-5	2,4-DINITROPHENOL	3600. U
95-57-8	2-CHLOROPHENOL	750. U	100-02-7	4-NITROPHENOL	3600. U
541-73-1	1,3-DICHLOROBENZENE	750. U	132-64-9	DIBENZOFURAN	750. U
106-46-7	1,4-DICHLOROBENZENE	750. U	121-14-2	2,4-DINITROTOLUENE	750. U
100-51-6	BENZYL ALCOHOL	750. U	606-20-2	2,6-DINITROTOLUENE	750. U
95-50-1	1,2-DICHLOROBENZENE	750. U	84-66-2	DIETHYLPHTHALATE	750. BU
95-48-7	2-METHYLPHENOL	750. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	750. U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	750. U	86-73-7	FLUORENE	750. U
106-44-5	4-METHYLPHENOL	750. U	100-10-6	4-NITROANILINE	3600. U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	750. U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	3600. U
67-72-1	HEXACHLOROETHANE	750. U	86-30-6	N-NITROSODIPHENYLAMINE (1)	750. U
98-95-3	NITROBENZENE	750. U	101-55-3	4-BROMOPHENYL-PHENYLETHER	750. U
78-59-1	ISOPHORONE	750. U	118-74-1	HEXACHLOROBENZENE	750. U
88-75-5	2-NITROPHENOL	750. U	87-86-5	PENTACHLOROPHENOL	3600. U
105-67-9	2,4-DIMETHYLPHENOL	750. U	85-01-8	PHENANTHRENE	750. U
65-85-0	BENZOIC ACID	3600. U	120-12-7	ANTHRACENE	750. BU
111-91-1	BIS(2-CHLOROETHOXY)METHANE	750. U	84-74-2	DI-N-BUTYLPHTHALATE	750. BU
120-83-2	2,4-DICHLOROPHENOL	750. U	206-44-0	FLUORANTHENE	170. J
120-82-1	1,2,4-TRICHLOROBENZENE	750. U	129-00-0	PYRENE	750. U
91-20-3	NAPHTHALENE	750. BU	85-68-7	BUTYLBENZYLPHTHALATE	750. U
106-47-8	4-CHLOROANILINE	750. U	91-94-1	3,3'-DICHLOROBENZIDINE	1500. U
87-68-3	HEXACHLOROBUTADIENE	750. U	56-55-3	BENZO(A)ANTHRACENE	750. U
59-50-7	4-CHLORO-3-METHYLPHENOL	750. U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	350. BJ
91-57-6	2-METHYLNAPHTHALENE	750. U	218-01-9	CHRYSENE	750. U
77-47-4	HEXACHLOROCYCLOPENTADIENE	750. U	117-84-0	DI-N-OCTYL PHTHALATE	750. U
88-06-2	2,4,6-TRICHLOROPHENOL	750. U	205-99-2	BENZO(B)FLUORANTHENE	750. U
95-95-4	2,4,5-TRICHLOROPHENOL	3600. U	207-08-9	BENZO(K)FLUORANTHENE	750. U
91-58-7	2-CHLORONAPHTHALENE	750. U	50-32-8	BENZO(A)PYRENE	750. U
88-74-4	2-NITROANILINE	3600. U	193-39-5	INDENO(1,2,3-CD)PYRENE	750. U
131-11-3	DIMETHYL PHTHALATE	750. U	53-70-3	DIBENZ(A,H)ANTHRACENE	750. U
208-96-8	ACENAPHTHYLENE	750. U	191-24-2	BENZO(G,H,I)PERYLENE	750. U
99-09-2	3-NITROANILINE	3600. U			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMI/E.R.G. Inc.
Case No. OEPA A5035

Sample Number
162922

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor:
Percent Moisture (decanted) 56

GPC Cleanup ☑Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/kg (Circle One)	
319-84-6	Alpha-BHC	18	U
319-85-7	Beta-BHC	18	U
319-86-8	Delta-BHC	18	U
58-89-9	Gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor Epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	36	U
72-55-9	4,4'-DDE	36	U
72-20-8	Endrin	36	U
33213-65-9	Endosulfan II	36	U
72-54-8	4,4'-DDD	36	U
1031-07-8	Endosulfan Sulfate	36	U
50-29-3	4,4'-DDT	36	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin Ketone	36	U
57-74-9	Chlordane	180	U
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	360	U
11096-82-5	Aroclor-1260	360	U
	Mirex	36	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 13g DRY WT. V_t 1000 ml V_i 3.0 ml

OTTAWA RIVER RM 4.9
AT STICKNEY AVE.

SAMPLE NUMBER
V162930R

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TMA/ERG
LAB SAMPLE ID NO: V162930R
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: Josepha A. Hudson

CASE NO: A5035
SC REPORT NO:
CONTRACT NO:
DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC FACTOR: 1.023541 PH 7.74
PERCENT MOISTURE: (NOT DECANTED) 36.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	15. U	78-87-5	1,2-DICHLOROPROPANE	7.4U
74-83-9	BROMOMETHANE	15. U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	7.4U
75-01-4	VINYL CHLORIDE	15. U	79-01-6	TRICHLOROETHENE	7.4U
75-00-3	CHLOROETHANE	15. U	124-48-1	DIBROMOCHLOROMETHANE	7.4U
75-09-2	METHYLENE CHLORIDE	16. B	79-00-5	1,1,2-TRICHLOROETHANE	7.4U
67-64-1	ACETONE	15. U	71-43-2	BENZENE	7.4U
75-15-0	CARBON DISULFIDE	7.4U	10061-01-5	CIS-1,3-DICHLOROPROPENE	7.4U
75-35-4	1,1-DICHLOROETHENE	7.4U	110-75-8	2-CHLOROETHYLVINYLETHER	15. U
75-34-3	1,1-DICHLOROETHANE	7.4U	75-25-2	BROMOFORM	7.4U
156-60-5	TRANS-1,2-DICHLOROETHENE	7.4U	108-10-1	4-METHYL-2-PENTANONE	15. U
67-66-3	CHLOROFORM	7.4U	591-78-6	2-HEXANONE	15. U
107-06-2	1,2-DICHLOROETHANE	7.4U	127-18-4	TETRACHLOROETHENE	7.4U
78-93-3	2-BUTANONE	15. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	15. U
71-55-6	1,1,1-TRICHLOROETHANE	7.4U	108-88-3	TOLUENE	7.4U
56-23-5	CARBON TETRACHLORIDE	7.4U	108-90-7	CHLOROBENZENE	7.4U
108-05-4	VINYL ACETATE	15. U	100-41-4	ETHYLBENZENE	7.4U
75-27-4	BROMODICHLOROMETHANE	7.4U	100-42-5	STYRENE	7.4U
				TOTAL XYLENES	7.4U

B - COMPOUND WAS DETECTED IN THE BC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: TMA/ERG
CASE NO: OHIOEPA5035

: SAMPLE NUMBER :
: 162930 :

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 02/03/87
DIL FACTOR: 2.000
PERCENT MOISTURE: (DECANTED) 34.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	1000.	U	83-32-9	ACENAPHTHENE	330.	J
111-44-4	BIS(2-CHLOROETHYL)ETHER	1000.	U	51-28-5	2,4-DINITROPHENOL	4800.	U
95-57-8	2-CHLOROPHENOL	1000.	U	100-02-7	4-NITROPHENOL	4800.	U
541-73-1	1,3-DICHLOROBENZENE	1000.	U	132-64-9	DIBENZOFURAN	260.	J
106-46-7	1,4-DICHLOROBENZENE	1000.	U	121-14-2	2,4-DINITROTOLUENE	1000.	U
100-51-6	BENZYL ALCOHOL	1000.	U	606-20-2	2,6-DINITROTOLUENE	1000.	U
95-50-1	1,2-DICHLOROBENZENE	1000.	U	84-66-2	DIETHYLPHTHALATE	1000.	BU
95-48-7	2-METHYLPHENOL	1000.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	1000.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	1000.	U	86-73-7	FLUORENE	470.	J
106-44-5	4-METHYLPHENOL	1000.	U	100-10-6	4-NITROANILINE	4800.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1000.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	4800.	U
67-72-1	HEXACHLOROETHANE	1000.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	1000.	U
98-95-3	NITROBENZENE	1000.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	1000.	U
78-59-1	ISOPHORONE	1000.	U	118-74-1	HEXACHLOROBENZENE	1000.	U
88-75-5	2-NITROPHENOL	1000.	U	87-86-5	PENTACHLOROPHENOL	4800.	U
105-67-9	2,4-DIMETHYLPHENOL	1000.	U	85-01-8	PHENANTHRENE	4100.	
65-85-0	BENZOIC ACID	4800.	U	120-12-7	ANTHRACENE	870.	BJ
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1000.	U	84-74-2	DI-N-BUTYLPHTHALATE	1000.	BU
120-83-2	2,4-DICHLOROPHENOL	1000.	U	206-44-0	FLUORANTHENE	5400.	
120-82-1	1,2,4-TRICHLOROBENZENE	1000.	U	129-00-0	PYRENE	4900.	
91-20-3	NAPHTHALENE	230.	BJ	85-68-7	BUTYLBENZYLPHTHALATE	4300.	
106-47-8	4-CHLOROANILINE	1000.	U	91-94-1	3,3'-DICHLOROBENZIDINE	2000.	U
87-68-3	HEXACHLOROBUTADIENE	1000.	U	56-55-3	BENZO(A)ANTHRACENE	3200.	
59-50-7	4-CHLORO-3-METHYLPHENOL	1000.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	16000.	B
91-57-6	2-METHYLNAPHTHALENE	1000.	U	218-01-9	CHRYSENE	2900.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1000.	U	117-84-0	DI-N-OCTYL PHTHALATE	3600.	
88-06-2	2,4,6-TRICHLOROPHENOL	1000.	U	205-99-2	BENZO(B)FLUORANTHENE	1000.	U
95-95-4	2,4,5-TRICHLOROPHENOL	4800.	U	207-08-9	BENZO(K)FLUORANTHENE	1000.	U
91-58-7	2-CHLORONAPHTHALENE	1000.	U	50-32-8	BENZO(A)PYRENE	1000	
88-74-4	2-NITROANILINE	4800.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	1700.	
131-11-3	DIMETHYL PHTHALATE	1000.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	930.	J
208-96-8	ACENAPHTHYLENE	100.	J	191-24-2	BENZO(G,H,I)PERYLENE	1800.	
99-09-2	3-NITROANILINE	4800.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMA/E.R.G. Inc.
Case No OEPA A5035

Sample Number
162930

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 34

GPC Cleanup ☒Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	12	U
319-85-7	Beta-BHC	12	U
319-86-8	Delta-BHC	12	U
58-89-9	Gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	12	U
1024-57-3	Heptachlor Epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	24	U
72-55-9	4,4'-DDE	24	U
72-20-8	Endrin	24	U
33213-65-9	Endosulfan II	24	U
72-54-8	4,4'-DDD	24	U
1031-07-8	Endosulfan Sulfate	24	U
50-29-3	4,4'-DDT	24	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin Ketone	24	U
57-74-9	Chlordane	120	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	2500	
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	240	U
11096-82-5	Aroclor-1260	240	U
	Mirex	24	U

V_t = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 20g DRY WT. V_t 1000 ul V_i 3.0 ul

OTTAWA RIVER RM 6.4
AT LAGRANGE ST.

SAMPLE NUMBER
V162929 R2

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: THA/ERS
CASE NO: A5035
LAB SAMPLE ID NO: V162929R2
QC REPORT NO:
SAMPLE MATRIX: SOIL
CONTRACT NO:
DATA RELEASE AUTHORIZED BY: Joseph A. Hunter DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC FACTOR: 1.036126 PH 7.55
PERCENT MOISTURE: (NOT DECANTED) 35.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	15. U	78-87-5	1,2-DICHLOROPROPANE	7.4U
74-83-9	BROMOMETHANE	15. U	10061-02-6	TRANS-1,3-DICHLOROPROENE	7.4U
75-01-4	VINYL CHLORIDE	15. U	79-01-6	TRICHLOROETHENE	6.8J
75-00-3	CHLOROETHANE	15. U	124-48-1	DIBROMOCHLOROMETHANE	7.4U
75-09-2	METHYLENE CHLORIDE	14. B	79-00-5	1,1,2-TRICHLOROETHANE	7.4U
67-64-1	ACETONE	5.3J	71-43-2	BENZENE	7.4U
75-15-0	CARBON DISULFIDE	7.4U	10061-01-5	CIS-1,3-DICHLOROPROPENE	7.4U
75-35-4	1,1-DICHLOROETHENE	7.4U	110-75-8	2-CHLOROETHYLVINYLETHER	15. U
75-35-3	1,1-DICHLOROETHANE	7.4U	75-25-2	BROMOFORM	7.4U
156-60-5	TRANS-1,2-DICHLOROETHENE	7.4U	108-10-1	4-METHYL-2-PENTANONE	15. U
67-66-3	CHLOROFORM	7.4U	591-78-6	2-HEXANONE	15. U
107-06-2	1,2-DICHLOROETHANE	7.4U	127-18-4	TETRACHLOROETHENE	7.4U
78-93-3	2-BUTANONE	15. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	15. U
71-55-6	1,1,1-TRICHLOROETHANE	7.4U	108-88-3	TOLUENE	7.4U
56-23-5	CARBON TETRACHLORIDE	7.4U	108-90-7	CHLOROBENZENE	7.4U
108-05-4	VINYL ACETATE	15. U	100-41-4	ETHYLBENZENE	7.4U
75-27-4	BROMODICHLOROMETHANE	7.4U	100-42-5	STYRENE	7.4U
				TOTAL XYLENES	7.4U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: THA/ERS
CASE NO: 5035

SAMPLE NUMBER
162929

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/23/87
CONC/DIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 35.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
108-95-2	PHENOL	510. U	83-32-9	ACENAPHTHENE	510. U
111-44-4	BIS(2-CHLOROETHYL)ETHER	510. U	51-28-5	2,4-DINITROPHENOL	2500. U
95-57-8	2-CHLOROPHENOL	510. U	100-02-7	4-NITROPHENOL	2500. U
541-73-1	1,3-DICHLOROBENZENE	510. U	132-64-9	DIBENZOFURAN	510. U
106-46-7	1,4-DICHLOROBENZENE	510. U	121-14-2	2,4-DINITROTOLUENE	510. U
100-51-6	BENZYL ALCOHOL	510. U	606-20-2	2,6-DINITROTOLUENE	510. U
95-50-1	1,2-DICHLOROBENZENE	510. U	84-66-2	DIETHYLPHTHALATE	510. BU
95-48-7	2-METHYLPHENOL	510. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	510. U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	510. U	86-73-7	FLUORENE	510. U
106-44-5	4-METHYLPHENOL	510. U	100-10-6	4-NITROANILINE	2500. U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	510. U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	2500. U
67-72-1	HEXACHLOROETHANE	510. U	86-30-6	N-NITROSODIPHENYLAMINE (1)	510. U
98-95-3	NITROBENZENE	510. U	101-55-3	4-BROMOPHENYL-PHENYLETHER	510. U
78-59-1	ISOPHORONE	510. U	118-74-1	HEXACHLOROBENZENE	510. U
88-75-5	2-NITROPHENOL	510. U	87-86-5	PENTACHLOROPHENOL	2500. U
105-67-9	2,4-DIMETHYLPHENOL	510. U	85-01-8	PHENANTHRENE	2000.
65-85-0	BENZOIC ACID	2500. U	120-12-7	ANTHRACENE	510. BU
111-91-1	BIS(2-CHLOROETHOXY)METHANE	510. U	84-74-2	DI-N-BUTYLPHTHALATE	510. BU
120-83-2	2,4-DICHLOROPHENOL	510. U	206-44-0	FLUORANTHENE	4900.
120-82-1	1,2,4-TRICHLOROBENZENE	510. U	129-00-0	PYRENE	510. U
91-20-3	NAPHTHALENE	510. BU	85-68-7	BUTYLBENZYLPHTHALATE	510. U
106-47-8	4-CHLOROANILINE	510. U	91-94-1	3,3'-DICHLOROBENZIDINE	1000. U
87-68-3	HEXACHLOROBUTADIENE	510. U	56-55-3	BENZO(A)ANTHRACENE	510. U
59-50-7	4-CHLORO-3-METHYLPHENOL	510. U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	510. BU
91-57-6	2-METHYLNAPHTHALENE	510. U	218-01-9	CHRYSENE	510. U
77-47-4	HEXACHLOROCYCLOPENTADIENE	510. U	117-84-0	DI-N-OCTYL PHTHALATE	510. U
88-06-2	2,4,6-TRICHLOROPHENOL	510. U	205-99-2	BENZO(B)FLUORANTHENE	510. U
95-95-4	2,4,5-TRICHLOROPHENOL	2500. U	207-08-9	BENZO(K)FLUORANTHENE	510. U
91-58-7	2-CHLORONAPHTHALENE	510. U	50-32-8	BENZO(A)PYRENE	510. U
88-74-4	2-NITROANILINE	2500. U	193-39-5	INDENO(1,2,3-CD)PYRENE	510. U
131-11-3	DIMETHYL PHTHALATE	510. U	53-70-3	DIBENZ(A,H)ANTHRACENE	510. U
208-96-8	ACENAPHTHYLENE	160. J	191-24-2	BENZO(G,H,I)PERYLENE	510. U
99-09-2	3-NITROANILINE	2500. U			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMA/E.R.G. Inc.
Case No: OEPA A5035

Sample Number
162929

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-25-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 35

GPC Cleanup ☑Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	12	U
319-85-7	Beta-BHC	12	U
319-86-8	Delta-BHC	12	U
58-89-9	Gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	12	U
1024-57-3	Heptachlor Epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	24	U
72-55-9	4, 4'-DDE	24	U
72-20-8	Endrin	24	U
33213-65-9	Endosulfan II	24	U
72-54-8	4, 4'-DDD	24	U
1031-07-8	Endosulfan Sulfate	24	U
50-29-3	4, 4'-DDT	24	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin Ketone	24	U
57-74-9	Chlordane	120	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	160	
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	710	
11096-82-5	Aroclor-1260	240	U
	Mirex	24	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 20 g DRY WT. V_t 1000 ul V_i 3.0 ul

TENMILE CREEK RM 4.1 SYLVANIA AVE.

Sample Number
162273

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc.
Lab Sample ID No: 162273
Sample Matrix: SOIL / LEO.
Data Release Authorized By:

Case No: OEPA A4989
QC Report No:
Contract No: 360336 - G1
Date Sample Received: 4/5/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11/7/86
Date Analyzed: 11/7/86
Conc/Dil Factor: 1 pH 6.7
Percent Moisture: (Not Decanted) 22

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	16	B
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1, 1-Dichloroethene	6	U
75-34-3	1, 1-Dichloroethane	6	U
156-60-5	Trans-1, 2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
107-06-2	1, 2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1, 1, 1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6
10061-02-6	Trans-1, 3-Dichloropropene	6
79-01-6	Trichloroethene	6
124-48-1	Dibromochloromethane	6
79-00-5	1, 1, 2-Trichloroethane	6
71-43-2	Benzene	6
10061-01-5	cis-1, 3-Dichloropropene	6
110-75-8	2-Chloroethylvinylether	13
75-25-2	Bromoform	6
108-10-1	4-Methyl-2-Pentanone	13
591-78-6	2-Hexanone	13
127-18-4	Tetrachloroethene	6
79-34-5	1, 1, 2, 2-Tetrachloroethane	6
108-88-3	Toluene	6
108-90-7	Chlorobenzene	6
100-41-4	Ethylbenzene	6
100-42-5	Styrene	6
	Total Xylenes	6

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit report the value

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. 10U based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

NR — No value required.

LABORATORY NAME: TMA/ERG
CASE NO: A4989

SAMPLE NUMBER
162273

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 12/26/86
CONC FACTOR: 1.016260
PERCENT MOISTURE: (DECANTED) 22

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	420.	U	83-32-9	ACENAPHTHENE	420.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	420.	U	51-28-5	2,4-DINITROPHENOL	2000.	U
95-57-8	2-CHLOROPHENOL	420.	U	100-02-7	4-NITROPHENOL	2000.	U
541-73-1	1,3-DICHLOROBENZENE	420.	U	132-64-9	DIBENZOFURAN	420.	U
106-46-7	1,4-DICHLOROBENZENE	420.	U	121-14-2	2,4-DINITROTOLUENE	420.	U
100-51-6	BENZYL ALCOHOL	420.	U	606-20-2	2,6-DINITROTOLUENE	420.	U
95-50-1	1,2-DICHLOROBENZENE	420.	U	84-66-2	DIETHYLPHTHALATE	420.	U
95-48-7	2-METHYLPHENOL	420.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	420.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	420.	U	86-73-7	FLUORENE	420.	U
106-44-5	4-METHYLPHENOL	420.	U	100-10-6	4-NITROANILINE	2000.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	420.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	2000.	U
67-72-1	HEXACHLOROETHANE	420.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	420.	U
98-95-3	NITROBENZENE	420.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	420.	U
78-59-1	ISOPHORONE	420.	U	118-74-1	HEXACHLOROBENZENE	420.	U
88-75-5	2-NITROPHENOL	420.	U	87-86-5	PENTACHLOROPHENOL	2000.	U
105-67-9	2,4-DIMETHYLPHENOL	420.	U	85-01-8	PHENANTHRENE	420.	U
65-85-0	BENZOIC ACID	2000.	U	120-12-7	ANTHRACENE	420.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	420.	U	84-74-2	DI-N-BUTYLPHTHALATE	420.	U
120-83-2	2,4-DICHLOROPHENOL	420.	U	206-44-0	FLUORANTHENE	170.	J
120-82-1	1,2,4-TRICHLOROBENZENE	420.	U	129-00-0	PYRENE	110.	J
91-20-3	NAPHTHALENE	420.	U	85-68-7	BUTYLBENZYLPHTHALATE	420.	U
106-47-8	4-CHLOROANILINE	420.	U	91-94-1	3,3'-DICHLOROBENZIDINE	830.	U
87-68-3	HEXACHLOROBUTADIENE	420.	U	56-55-3	BENZO(A)ANTHRACENE	420.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	420.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	420.	U
91-57-6	2-METHYLNAPHTHALENE	420.	U	218-01-9	CHRYSENE	420.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	420.	U	117-84-0	DI-N-OCTYL PHTHALATE	420.	U
88-06-2	2,4,6-TRICHLOROPHENOL	420.	U	205-99-2	BENZO(B)FLUORANTHENE	420.	U
95-95-4	2,4,5-TRICHLOROPHENOL	2000.	U	207-08-9	BENZO(K)FLUORANTHENE	420.	U
91-58-7	2-CHLORONAPHTHALENE	420.	U	50-32-8	BENZO(A)PYRENE	420.	U
88-74-4	2-NITROANILINE	2000.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	420.	U
131-11-3	DIMETHYL PHTHALATE	420.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	420.	U
208-96-8	ACENAPHTHYLENE	420.	U	191-24-2	BENZO(G,H,I)PERYLENE	420.	U
99-09-2	3-NITROANILINE	2000.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name TMA/ERG, Inc.
Case No OEPA A4989

Sample Numc
162273

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-7-86
Date Analyzed: 2-3-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 22

GPC Cleanup ☐Yes ☑No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Ye

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	10	U
319-85-7	Beta-BHC	10	U
319-86-8	Delta-BHC	10	U
58-89-9	Gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor Epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan Sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin Ketone	20	U
57-74-9	Chlordane	100	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U
	MIREX	20	U

V = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 23 g (DRY WT.) V_t 1000 ml V_i 30 ml

SWAN CREEK AT COLLINGWOOD BLVD. RM 1.2

: SAMPLE NUMBER :
: V162922 :

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TMA/ERG
LAB SAMPLE ID NO: V162922
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: Joseph C. Hunter

CASE NO: A5035
QC REPORT NO:
CONTRACT NO:
DATE SAMPLE RECEIVED: 11/14/84

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/84
DATE ANALYZED: 11/19/84
CONC/DIL FACTOR: 1. PH 7.40
PERCENT MOISTURE: (NOT DECANTED) 54.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	22. U	78-87-5	1,2-DICHLOROPROPANE	11. U
74-83-9	BROMOMETHANE	22. U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	11. U
75-01-4	VINYL CHLORIDE	22. U	79-01-6	TRICHLOROETHENE	19.
75-00-3	CHLOROETHANE	22. U	124-48-1	DIBROMOCHLOROMETHANE	11. U
75-09-2	METHYLENE CHLORIDE	13. B	79-00-5	1,1,2-TRICHLOROETHANE	11. U
67-64-1	ACETONE	22. U	71-43-2	BENZENE	11. U
75-15-0	CARBON DISULFIDE	11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE	11. U
75-35-4	1,1-DICHLOROETHENE	11. U	110-75-8	2-CHLOROETHYLVINYLETHER	22. U
75-35-3	1,1-DICHLOROETHANE	11. U	75-25-2	BROMOFORM	11. U
156-60-5	TRANS-1,2-DICHLOROETHENE	11. U	108-10-1	4-METHYL-2-PENTANONE	22. U
67-66-3	CHLOROFORM	11. U	591-78-6	2-HEXANONE	22. U
107-06-2	1,2-DICHLOROETHANE	11. U	127-18-4	TETRACHLOROETHENE	11. U
78-93-3	2-BUTANONE	22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	22. U
71-55-6	1,1,1-TRICHLOROETHANE	11. U	108-88-3	TOLUENE	11. U
56-23-5	CARBON TETRACHLORIDE	11. U	108-90-7	CHLOROBENZENE	11. U
108-05-4	VINYL ACETATE	22. U	100-41-4	ETHYLBENZENE	11. U
75-27-4	BROMODICHLOROMETHANE	11. U	100-42-5	STYRENE	11. U
				TOTAL XYLENES	11. U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

SWAN CREEK AT COLLINGWOOD BLVD. RM 1.2

: SAMPLE NUMBER :
: V162928R :

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TMA/ERG
LAB SAMPLE ID NO: V162928R
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: Joseph C. Hunter

CASE NO: A5035
QC REPORT NO:
CONTRACT NO:
DATE SAMPLE RECEIVED: 11/14/84

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/20/84
DATE ANALYZED: 11/20/84
CONC/DIL FACTOR: 1. PH 7.40
PERCENT MOISTURE: (NOT DECANTED) 54.0

CAS NUMBER		UG/KG	CAS NUMBER		UG/KG
74-87-3	CHLOROMETHANE	22. U	78-87-5	1,2-DICHLOROPROPANE	11. U
74-83-9	BROMOMETHANE	22. U	10061-02-6	TRANS-1,3-DICHLOROPROPENE	11. U
75-01-4	VINYL CHLORIDE	22. U	79-01-6	TRICHLOROETHENE	6.2J
75-00-3	CHLOROETHANE	22. U	124-48-1	DIBROMOCHLOROMETHANE	11. U
75-09-2	METHYLENE CHLORIDE	56. B	79-00-5	1,1,2-TRICHLOROETHANE	11. U
67-64-1	ACETONE	38.	71-43-2	BENZENE	11. U
75-15-0	CARBON DISULFIDE	11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE	11. U
75-35-4	1,1-DICHLOROETHENE	11. U	110-75-8	2-CHLOROETHYLVINYLETHER	22. U
75-35-3	1,1-DICHLOROETHANE	11. U	75-25-2	BROMOFORM	11. U
156-60-5	TRANS-1,2-DICHLOROETHENE	11. U	108-10-1	4-METHYL-2-PENTANONE	22. U
67-66-3	CHLOROFORM	11. U	591-78-6	2-HEXANONE	22. U
107-06-2	1,2-DICHLOROETHANE	11. U	127-18-4	TETRACHLOROETHENE	11. U
78-93-3	2-BUTANONE	22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	22. U
71-55-6	1,1,1-TRICHLOROETHANE	11. U	108-88-3	TOLUENE	11. U
56-23-5	CARBON TETRACHLORIDE	11. U	108-90-7	CHLOROBENZENE	11. U
108-05-4	VINYL ACETATE	39.	100-41-4	ETHYLBENZENE	11. U
75-27-4	BROMODICHLOROMETHANE	11. U	100-42-5	STYRENE	11. U
				TOTAL XYLENES	11. U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

LABORATORY NAME: TNA/ERG
CASE NO: OHIOEPA5035

SAMPLE NUMBER
162928

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 02/03/87
DIL FACTOR: 4.000
PERCENT MOISTURE: (DECANTED) 54.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	2900.	U	83-32-9	ACENAPHTHENE	5300.	
111-44-4	BIS(2-CHLOROETHYL)ETHER	2900.	U	51-28-5	2,4-DINITROPHENOL	14000.	U
95-57-8	2-CHLOROPHENOL	2900.	U	100-02-7	4-NITROPHENOL	14000.	U
541-73-1	1,3-DICHLOROBENZENE	2900.	U	132-64-9	DIBENZOFURAN	4900.	
106-46-7	1,4-DICHLOROBENZENE	2900.	U	121-14-2	2,4-DINITROTOLUENE	2900.	U
100-51-6	BENZYL ALCOHOL	2900.	U	606-20-2	2,6-DINITROTOLUENE	2900.	U
95-50-1	1,2-DICHLOROBENZENE	2900.	U	84-66-2	DIETHYLPHTHALATE	2900.	BU
95-48-7	2-METHYLPHENOL	2900.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	2900.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	2900.	U	86-73-7	FLUORENE	7500.	
106-44-5	4-METHYLPHENOL	2900.	U	100-10-6	4-NITROANILINE	14000.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	2900.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	14000.	U
67-72-1	HEXACHLOROETHANE	2900.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	2900.	U
98-95-3	NITROBENZENE	2900.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	2900.	U
78-59-1	ISOPHORONE	2900.	U	118-74-1	HEXACHLOROBENZENE	2900.	U
88-75-5	2-NITROPHENOL	2900.	U	87-86-5	PENTACHLOROPHENOL	14000.	U
105-67-9	2,4-DIMETHYLPHENOL	2900.	U	85-01-8	PHENANTHRENE	29000.	
65-85-0	BENZOIC ACID	14000.	U	120-12-7	ANTHRACENE	12000.	B
111-91-1	BIS(2-CHLOROETHOXY)METHANE	2900.	U	84-74-2	DI-N-BUTYLPHTHALATE	610.	BJ
120-83-2	2,4-DICHLOROPHENOL	2900.	U	206-44-0	FLUORANTHENE	26000.	
120-82-1	1,2,4-TRICHLOROBENZENE	2900.	U	129-00-0	PYRENE	22000.	
91-20-3	NAPHTHALENE	2700.	BJ	85-68-7	BUTYLBENZYLPHTHALATE	2900.	U
106-47-8	4-CHLOROANILINE	2900.	U	91-94-1	3,3'-DICHLOROBENZIDINE	5700.	U
87-68-3	HEXACHLOROBUTADIENE	2900.	U	56-55-3	BENZO(A)ANTHRACENE	11000.	
59-50-7	4-CHLORO-3-METHYLPHENOL	2900.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	6300.	B
91-57-6	2-METHYLNAPHTHALENE	2800.	J	218-01-9	CHRYSENE	8800.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	2900.	U	117-84-0	DI-N-OCTYL PHTHALATE	590.	J
88-06-2	2,4,6-TRICHLOROPHENOL	2900.	U	205-99-2	BENZO(B)FLUORANTHENE	6500.	
95-95-4	2,4,5-TRICHLOROPHENOL	14000.	U	207-08-9	BENZO(K)FLUORANTHENE	4400.	
91-58-7	2-CHLORONAPHTHALENE	2900.	U	50-32-8	BENZO(A)PYRENE	4800.	
88-74-4	2-NITROANILINE	14000.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	2600.	J
131-11-3	DIMETHYL PHTHALATE	2900.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	1200.	J
208-96-8	ACENAPHTHYLENE	2900.	U	191-24-2	BENZO(G,H,I)PERYLENE	2300.	J
99-09-2	3-NITROANILINE	14000.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TNA/E.R.G. inc.
Case No. OEPA A5035

Sample Number
162928

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-25-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 54

GPC Cleanup ☑Yes ☐No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	17	U
319-85-7	Beta-BHC	17	U
319-86-8	Delta-BHC	17	U
58-89-9	Gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor Epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	34	U
72-55-9	4,4'-DDE	34	U
72-20-8	Endrin	34	U
33213-65-9	Endosulfan II	34	U
72-54-8	4,4'-DDD	34	U
1031-07-8	Endosulfan Sulfate	34	U
50-29-3	4,4'-DDT	34	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	1680	
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	340	U
11096-82-5	Aroclor-1260	340	U
	Mirex	34	U

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_i ____ or W 14 g V_s 1000 ml V_t 3.0 ml

OTTER CREEK RM2.1 MILLARD AVE.

Sample Number
162270

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc. Case No: OHEPA 44989

Lab Sample ID No: 162270 QC Report No:

Sample Matrix: SOIL/SED Contract No: 360336 - GS

Data Release Authorized By: Joseph A. Hinton Date Sample Received: 11/5/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 12/2/86

Date Analyzed: 12/2/86

Conc/Dil Factor: 1 pH 6.58

Percent Moisture: (Not Decanted) 53

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	21	B
67-64-1	Acetone	21	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1, 1-Dichloroethene	11	U
75-34-3	1, 1-Dichloroethane	11	U
156-60-5	Trans-1, 2-Dichloroethene	11	U
67-66-3	Chloroform	11	U
107-06-2	1, 2-Dichloroethane	11	U
78-93-3	2-Butanone	21	U
71-55-6	1, 1, 1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
108-05-4	Vinyl Acetate	21	U
75-27-4	Bromodichloromethane	11	U

CAS Number		ug/l or ug/Kg (Circle One)	
78-87-5	1, 2-Dichloropropane	11	U
10061-02-6	Trans-1, 3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1, 1, 2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-01-5	cis-1, 3-Dichloropropene	11	U
110-75-8	2-Chloroethylvinylether	21	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	11	U
108-88-3	Toluene	320	
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
	Total Xylenes	11	U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be clearly

Value — The result is a value greater than or equal to the detection limit; report the value.

- — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. Corrected for necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U — Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide/PCB analytes where the identification has been confirmed by GC/MS. If the compound selected in GC/MS is not within the limits, it should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action.

NR — No value required.

LABORATORY NAME: TMA/ERG
CASE NO: A4989

SAMPLE NUMBER
162270

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 01/16/87
CONC FACTOR: 1.007049
PERCENT MOISTURE: (DECANTED) 53

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG	
108-95-2	PHENOL	890.	
111-44-4	BIS(2-CHLOROETHYL)ETHER	700.	U
95-57-8	2-CHLOROPHENOL	700.	U
541-73-1	1,3-DICHLOROBENZENE	700.	U
106-46-7	1,4-DICHLOROBENZENE	700.	U
100-51-6	BENZYL ALCOHOL	700.	U
95-50-1	1,2-DICHLOROBENZENE	700.	U
95-48-7	2-METHYLPHENOL	700.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	700.	U
106-44-5	4-METHYLPHENOL	1700.	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	700.	U
67-72-1	HEXACHLOROETHANE	700.	U
98-95-3	NITROBENZENE	700.	U
78-59-1	ISOPHORONE	700.	U
88-75-5	2-NITROPHENOL	700.	U
105-67-9	2,4-DIMETHYLPHENOL	700.	U
65-85-0	BENZOIC ACID	3400.	U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	700.	U
120-83-2	2,4-DICHLOROPHENOL	700.	U
120-82-1	1,2,4-TRICHLOROBENZENE	700.	U
91-20-3	NAPHTHALENE	700.	U
106-47-8	4-CHLOROANILINE	700.	U
87-68-3	HEXACHLOROBUTADIENE	700.	U
59-50-7	4-CHLORO-3-METHYLPHENOL	700.	U
91-57-6	2-METHYLNAPHTHALENE	700.	U
77-47-4	HEXACHLOROCYCLOPENTADIENE	700.	U
88-06-2	2,4,6-TRICHLOROPHENOL	700.	U
95-95-4	2,4,5-TRICHLOROPHENOL	3400.	U
91-58-7	2-CHLORONAPHTHALENE	700.	U
88-74-4	2-NITROANILINE	3400.	U
131-11-3	DIMETHYL PHTHALATE	700.	U
208-96-8	ACENAPHTHYLENE	700.	U
99-09-2	3-NITROANILINE	3400.	U

CAS NUMBER		UG/KG	
83-32-9	ACENAPHTHENE	700.	U
51-28-5	2,4-DINITROPHENOL	3400.	U
100-02-7	4-NITROPHENOL	3400.	U
132-64-9	DIBENZOFURAN	700.	U
121-14-2	2,4-DINITROTOLUENE	700.	U
606-20-2	2,6-DINITROTOLUENE	700.	U
84-66-2	DIETHYLPHTHALATE	700.	U
7005-72-3	4-CHLOROPHENYL-PHENYLETHER	700.	U
86-73-7	FLUORENE	700.	U
100-16-6	4-NITROANILINE	3400.	U
534-52-1	4,6-DINITRO-2-METHYLPHENOL	3400.	U
86-30-6	N-NITROSODIPHENYLAMINE (1)	700.	U
101-55-3	4-BROMOPHENYL-PHENYLETHER	700.	U
118-74-1	HEXACHLOROBENZENE	700.	U
87-86-5	PENTACHLOROPHENOL	3400.	U
85-01-8	PHENANTHRENE	700.	U
120-12-7	ANTHRACENE	700.	U
84-74-2	DI-N-BUTYLPHTHALATE	700.	U
206-44-0	FLUORANTHENE	540.	J
129-00-0	PYRENE	710.	
85-68-7	BUTYLBENZYLPHTHALATE	700.	U
91-94-1	3,3'-DICHLOROBENZIDINE	1400.	U
56-55-3	BENZO(A)ANTHRACENE	700.	U
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	610.	J
218-01-9	CHRYSENE	420.	J
117-84-0	DI-N-OCTYL PHTHALATE	700.	U
205-99-2	BENZO(B)FLUORANTHENE	700.	U
207-08-9	BENZO(K)FLUORANTHENE	700.	U
50-32-8	BENZO(A)PYRENE	260.	J
193-39-5	INDENO(1,2,3-CD)PYRENE	700.	U
53-70-3	DIBENZ(A,H)ANTHRACENE	700.	U
191-24-2	BENZO(G,H,I)PERYLENE	290.	J

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

Laboratory Name: TM/E.R.G. inc.
Case No. OEPA A4989

Sample Number
162270

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11-7-86
Date Analyzed: 2-3-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 53

GPC Cleanup ☐Yes ☑No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	17	U
319-85-7	Beta-BHC	17	U
319-86-8	Delta-BHC	17	U
58-89-9	Gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor Epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	34	U
72-55-9	4, 4'-DDE	34	U
72-20-8	Endrin	34	U
33213-65-9	Endosulfan II	34	U
72-54-8	4, 4'-DDD	34	U
1031-07-8	Endosulfan Sulfate	34	U
50-29-3	4, 4'-DDT	34	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	340	U
11096-82-5	Aroclor-1260	340	U
MIREX		34	U

V_t = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 14g DRY WT. V_t 1000ul V_i 3.0 ml

OTTER CREEK RM 4.0
WHEELING ST.

Sample Number
162271

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc.
Lab Sample ID No: 162271
Sample Matrix: SOIL/SED.
Data Release Authorized By:

Case No: OEPA A4989
QC Report No:
Contract No: 360336 - G1
Date Sample Received: 11/5/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 11/8/86
Date Analyzed: 11/8/86
Conc/Dil Factor: 1 pH 6.5
Percent Moisture: (Not Decanted) 31

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	12	JB
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	6	U
75-35-4	1, 1-Dichloroethene	6	U
75-34-3	1, 1-Dichloroethane	6	U
156-60-5	Trans-1, 2-Dichloroethene	6	U
67-66-3	Chloroform	6	U
107-06-2	1, 2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1, 1, 1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U

CAS Number		ug/l or ug/Kg (Circle One)	
78-87-5	1, 2-Dichloropropane	6	U
10061-02-6	Trans-1, 3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1, 1, 2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-01-5	cis-1, 3-Dichloropropene	6	U
110-75-8	2-Chloroethylvinylether	13	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
	Total Xylenes	6	U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — The result is a value greater than or equal to the detection limit; report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. (U based on necessary concentration, dilution action. This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR No value required.

LABORATORY NAME: TMA/ERG
CASE NO: A4989

SAMPLE NUMBER
162271

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 01/16/87
CONC FACTOR: 1.019348
PERCENT MOISTURE: (DECANTED) 31

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	480.	U	83-32-9	ACENAPHTHENE	480.	U
111-44-4	BIS(2-CHLOROETHYL)ETHER	480.	U	51-28-5	2,4-DINITROPHENOL	2300.	U
95-57-8	2-CHLOROPHENOL	480.	U	100-02-7	4-NITROPHENOL	2300.	U
541-73-1	1,3-DICHLOROBENZENE	480.	U	132-64-9	DIBENZOFURAN	150.	J
106-46-7	1,4-DICHLOROBENZENE	480.	U	121-14-2	2,4-DINITROTOLUENE	480.	U
100-51-6	BENZYL ALCOHOL	480.	U	606-20-2	2,6-DINITROTOLUENE	480.	U
95-50-1	1,2-DICHLOROBENZENE	480.	U	84-66-2	DIETHYLPHTHALATE	480.	U
95-48-7	2-METHYLPHENOL	480.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	480.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	480.	U	86-73-7	FLUORENE	290.	J
106-44-5	4-METHYLPHENOL	480.	U	100-16-4	4-NITROANILINE	2300.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	480.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	2300.	U
67-72-1	HEXACHLOROETHANE	480.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	480.	U
98-95-3	NITROBENZENE	480.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	480.	U
78-59-1	ISOPHORONE	480.	U	118-74-1	HEXACHLOROBENZENE	480.	U
88-75-5	2-NITROPHENOL	480.	U	87-86-5	PENTACHLOROPHENOL	2300.	U
105-67-9	2,4-DIMETHYLPHENOL	480.	U	85-01-8	PHENANTHRENE	2300.	
65-85-0	BENZOIC ACID	2300.	U	120-12-7	ANTHRACENE	830.	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	480.	U	84-74-2	DI-N-BUTYLPHTHALATE	480.	U
120-83-2	2,4-DICHLOROPHENOL	480.	U	206-44-0	FLUORANTHENE	3500.	
120-82-1	1,2,4-TRICHLOROBENZENE	480.	U	129-00-0	PYRENE	3700.	
91-20-3	NAPHTHALENE	480.	U	85-68-7	BUTYLBENZYLPHTHALATE	480.	U
106-47-8	4-CHLOROANILINE	480.	U	91-94-1	3,3'-DICHLOROBENZIDINE	970.	U
87-68-3	HEXACHLOROBUTADIENE	480.	U	56-55-3	BENZO(A)ANTHRACENE	1500.	
59-50-7	4-CHLORO-3-METHYLPHENOL	480.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	650.	
91-57-6	2-METHYLNAPHTHALENE	480.	U	218-01-9	CHRYSENE	1700.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	480.	U	117-84-0	DI-N-OCTYL PHTHALATE	480.	U
88-06-2	2,4,6-TRICHLOROPHENOL	480.	U	205-99-2	BENZO(B)FLUORANTHENE	480.	U
95-95-4	2,4,5-TRICHLOROPHENOL	2300.	U	207-08-9	BENZO(K)FLUORANTHENE	480.	U
91-58-7	2-CHLORONAPHTHALENE	480.	U	50-32-8	BENZO(A)PYRENE	1000.	
88-74-4	2-NITROANILINE	2300.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	680.	
131-11-3	DIMETHYL PHTHALATE	480.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	260.	J
208-96-8	ACENAPHTHYLENE	480.	U	191-24-2	BENZO(G,H,I)PERYLENE	750.	
99-09-2	3-NITROANILINE	2300.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMA/E.R.G. inc.
Case No. OERA A4989

Sample Number
162271

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-7-86
Date Analyzed: 2-3-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 31

GPC Cleanup ☐Yes ☑No
Separatory Funnel Extraction ☐Yes
Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	12	U
319-85-7	Beta-BHC	12	U
319-86-8	Delta-BHC	12	U
58-89-9	Gamma-BHC (Lindane)	12	U
76-44-8	Heptachlor	12	U
309-00-2	Aldrin	12	U
1024-57-3	Heptachlor Epoxide	12	U
959-98-8	Endosulfan I	12	U
60-57-1	Dieldrin	24	U
72-55-9	4,4'-DDE	24	U
72-20-8	Endrin	24	U
33213-65-9	Endosulfan II	24	U
72-54-8	4,4'-DDD	24	U
1031-07-8	Endosulfan Sulfate	24	U
50-29-3	4,4'-DDT	24	U
72-43-5	Methoxychlor	120	U
53494-70-5	Endrin Ketone	24	U
57-74-9	Chlordane	120	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	240	U
11096-82-5	Aroclor-1260	240	U
	MIREX	24	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 21 g (DRY WT.) V_t 1000 ml V_i 3.0 ml

OTTER CREEK RM 5.9
OAKDALE AVE.

Sample Number
162272

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc.
Case No: OEPA 44989
Lab Sample ID No: 162272 R
QC Report No:
Sample Matrix: SOIL/SED.
Contract No: 360736 - GS
Data Release Authorized By:
Date Sample Received: 11/5/86

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 12/2/86
Date Analyzed: 12/2/86
Conc/Dil Factor: 1 pH 7.69
Percent Moisture: (Not Decanted) 67

CAS Number		ug/l or ug/Kg (Circle One)	
74-87-3	Chloromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl Chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene Chloride	37	B
67-64-1	Acetone	47	
75-15-0	Carbon Disulfide	15	U
75-35-4	1, 1-Dichloroethene	15	U
75-34-3	1, 1-Dichloroethane	15	U
156-60-5	Trans-1, 2-Dichloroethene	15	U
67-66-3	Chloroform	15	U
107-06-2	1, 2-Dichloroethane	15	U
78-93-3	2-Butanone	30	U
71-55-6	1, 1, 1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
108-05-4	Vinyl Acetate	30	U
75-27-4	Bromodichloromethane	15	U

CAS Number		ug/l or ug/Kg (Circle One)	
78-87-5	1, 2-Dichloropropane	15	U
10061-02-6	Trans-1, 3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1, 1, 2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-01-5	cis-1, 3-Dichloropropene	15	U
110-75-8	2-Chloroethylvinylether	30	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
	Total Xylenes	15	U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value — If the result is a value greater than or equal to the detection limit, report the value.

U — Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration/dilution action. This is not necessarily the instrument detection limit.) The footnote should read: U — Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J — Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

C — This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B — This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

NR — No value required.

LABORATORY NAME: TMA/ERG
CASE NO: 44989

SAMPLE NUMBER: 162272

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 12/26/86
CONC FACTOR: 1.007049
PERCENT MOISTURE: (DECANTED) 67

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER		UG/KG		CAS NUMBER		UG/KG	
108-95-2	PHENOL	960.	U	83-32-9	ACENAPHTHENE	630.	J
111-44-4	BIS(2-CHLOROETHYL)ETHER	960.	U	51-28-5	2,4-DINITROPHENOL	4700.	U
95-57-8	2-CHLOROPHENOL	960.	U	100-02-7	4-NITROPHENOL	4700.	U
541-73-1	1,3-DICHLOROBENZENE	960.	U	132-64-9	DIBENZOFURAN	390.	J
106-46-7	1,4-DICHLOROBENZENE	960.	U	121-14-2	2,4-DINITROTOLUENE	960.	U
100-51-6	BENZYL ALCOHOL	960.	U	606-20-2	2,6-DINITROTOLUENE	960.	U
95-50-1	1,2-DICHLOROBENZENE	960.	U	84-66-2	DIETHYLPHTHALATE	960.	U
95-48-7	2-METHYLPHENOL	960.	U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	960.	U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	960.	U	86-73-7	FLUORENE	830.	J
106-44-5	4-METHYLPHENOL	960.	U	100-10-6	4-NITROANILINE	4700.	U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	960.	U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	4700.	U
67-72-1	HEXACHLOROETHANE	960.	U	86-30-6	N-NITROSODIPHENYLAMINE (1)	960.	U
98-95-3	NITROBENZENE	960.	U	101-55-3	4-BROMOPHENYL-PHENYLETHER	960.	U
78-59-1	ISOPHORONE	960.	U	118-74-1	HEXACHLOROBENZENE	960.	U
88-75-5	2-NITROPHENOL	960.	U	87-86-5	PENTACHLOROPHENOL	4700.	U
105-67-9	2,4-DIMETHYLPHENOL	960.	U	85-01-8	PHENANTHRENE	8700.	
65-85-0	BENZOIC ACID	4700.	U	120-12-7	ANTHRACENE	1900.	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	960.	U	84-74-2	DI-N-BUTYLPHTHALATE	960.	U
120-83-2	2,4-DICHLOROPHENOL	960.	U	206-44-0	FLUORANTHENE	12000.	
120-82-1	1,2,4-TRICHLOROBENZENE	960.	U	129-00-0	PYRENE	7500.	
91-20-3	NAPHTHALENE	960.	U	85-68-7	BUTYLBENZYLPHTHALATE	960.	U
106-47-8	4-CHLOROANILINE	960.	U	91-94-1	3,3'-DICHLOROBENZIDINE	1900.	U
87-68-3	HEXACHLOROBUTADIENE	960.	U	56-55-3	BENZO(A)ANTHRACENE	5000.	
59-50-7	4-CHLORO-3-METHYLPHENOL	960.	U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	550.	J
91-57-6	2-METHYLNAPHTHALENE	960.	U	218-01-9	CHRYSENE	3400.	
77-47-4	HEXACHLOROCYCLOPENTADIENE	960.	U	117-84-0	DI-N-OCTYL PHTHALATE	960.	U
88-06-2	2,4,6-TRICHLOROPHENOL	960.	U	205-99-2	BENZO(B)FLUORANTHENE	3900.	
95-95-4	2,4,5-TRICHLOROPHENOL	4700.	U	207-08-9	BENZO(K)FLUORANTHENE	2700.	
91-58-7	2-CHLORONAPHTHALENE	960.	U	50-32-8	BENZO(A)PYRENE	2900.	
88-74-4	2-NITROANILINE	4700.	U	193-39-5	INDENO(1,2,3-CD)PYRENE	2200.	
131-11-3	DIMETHYL PHTHALATE	960.	U	53-70-3	DIBENZ(A,H)ANTHRACENE	1000.	
208-96-8	ACENAPHTHYLENE	960.	U	191-24-2	BENZO(G,H,I)PERYLENE	2600.	
99-09-2	3-NITROANILINE	4700.	U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMA/E.R.G. inc.

Case No. OEPA A4989

Sample Number: 162272

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11-7-87

Date Analyzed: 2-3-87

Conc/Dil Factor: 1

Percent Moisture (decanted) 67

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha-BHC	24	U
319-85-7	Beta-BHC	24	U
319-86-8	Delta-BHC	24	U
58-89-9	Gamma-BHC (Lindane)	24	U
76-44-8	Heptachlor	24	U
309-00-2	Aldrin	24	U
1024-57-3	Heptachlor Epoxide	24	U
959-98-8	Endosulfan I	24	U
60-57-1	Dieldrin	48	U
72-55-9	4, 4'-DDE	48	U
72-20-8	Endrin	48	U
33213-65-9	Endosulfan II	48	U
72-54-8	4, 4'-DDD	48	U
1031-07-8	Endosulfan Sulfate	48	U
50-29-3	4, 4'-DDT	48	U
72-43-5	Methoxychlor	240	U
53494-70-5	Endrin Ketone	48	U
57-74-9	Chlordane	240	U
8001-35-2	Toxaphene	480	U
12674-11-2	Aroclor-1016	240	U
11104-28-2	Aroclor-1221	240	U
11141-16-5	Aroclor-1232	240	U
53469-21-9	Aroclor-1242	240	U
12672-29-6	Aroclor-1248	240	U
11097-69-1	Aroclor-1254	480	U
11096-82-5	Aroclor-1260	480	U
	MIREX	48	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s ——— or W_s 9.9 g (DRY WT.) V_t 1000 ml V_i 3.0 ml

APPENDIX B

Package Sewage Treatment Plant Data

APPENDIX B
PACKAGE SEWAGE TREATMENT PLANT EFFLUENT DATA

NOTE: There are many package plants in the RAP Area, and most of them do not have NPDES Discharge Permits; and consequently, there are no data available on what they are discharging. The data in this table covers package plants in Lucas County, most of which are or were operated by the Lucas County Sanitary Engineer, and in all likelihood, are better operated and maintained than the "typical" package plant. Two of these plants (Corey Meadows and Lincoln Green) are no longer in use. Data for these plants is included here as examples of package plant discharge.

SOURCE: Lucas County Facilities Plan[5]

PACKAGE PLANT DATA
Maumee Basin Plants with NPDES Permits

	FLOW RATE	TOTAL FLOW, MG				Avg BOD	TOTAL BOD, POUNDS				Avg SS	TOTAL SS, POUNDS				Avg P	TOTAL P (est), POUNDS				FILTERS?
	Avg, gpd	1979	1980	1981	1982		1979	1980	1981	1982		1979	1980	1981	1982		1979	1980	1981	1982	
Bentbrook	88,200	29.0	30.2	33.8	35.8	934	4,938	6,057	11,892	8,834	902	5,193	6,484	11,010	7,579	940	848	883	985	1,046	N
Corey Meadows	62,100	21.1	22.0	23.3	24.4	136	814	948	1,011	1,449	227	1,458	2,446	1,359	2,193	662	615	642	680	711	N
Lincoln Green	117,800	38.6	42.7	48.7	42.1	1,162	6,099	10,533	13,088	10,235	1,463	11,962	13,544	10,929	11,600	1,256	1,127	1,245	1,422	1,230	N
Oak Openings Ind	48,100	12.6	11.3	19.1	27.2	88	483	339	714	1,594	176	1,109	987	1,349	2,578	293	210	189	318	454	Y
Oak Terrace	61,200	18.8	15.2	33.2	22.2	291	820	526	5,195	4,535	358	1,226	823	7,097	4,226	373	314	254	553	371	Y

EXTENDED AERATION PACKAGE PLANT EFFLUENT DATA

Source: Lucas County Facilities Plan, Appendix F

PACKAGE PLANT NAME: BENTBROOK FARMS
PACKAGE PLANT NUMBER: L-68
NPDES PERMIT NUMBER: G 702 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.079	6.7	.6	23.4	29.3	3.0	71.0
February	.080	6.7	.6	14.3	15.0	3.5	23.0
March	.089	6.7	.6	27.3	31.2	3.5	19.0
April	.101	6.9	.6	18.3	25.8	3.5	31.0
May	.113	6.9	.6	14.0	13.8	3.3	21.0
June	.057	6.9	.6	22.7	17.7	3.2	32.0
July	.066	7.1	.6	10.6	6.8	3.3	11.0
August	.083	6.7	.6	23.3	34.5	3.7	180.0
September	.063	6.7	.6	10.2	7.9	2.8	6.0
October	.058	6.7	.6	11.0	13.7	2.9	9.0
November	.069	6.8	.6	11.5	15.9	3.3	31.0
December	.096	7.0	.6	58.1	45.7	3.6	1,198.0
AVERAGES	79,500	6.8	.6	20.4	21.4	3.3	136.0
TOTALS	348		5.2	175.8	184.8	28.4	
January 1980	.080	7.0	.6	65.2	41.5	3.4	1,319.0
February	.070	6.9	.6	25.0	21.6	3.4	96.0
March	.091	6.9	.6	8.5	13.0	3.3	12.0
April							
May	.114	6.9	.6	6.2	8.2	3.3	3.0
June	.108	6.9	.6	54.7	54.3	2.7	337.0
July	.080	7.1	.6	6.3	7.4	3.2	3.0
August	.116	6.9	.6	7.1	13.3	2.1	6.0
September	.080	7.0	.6	AH	AH	3.6	AH
October	.058	6.9	.6	12.7	26.0	1.6	36.0
November	.062	7.0	.4	42.5	56.7	3.3	1,240.0
December	.052	6.7	.5	11.9	15.0	3.0	302.0
AVERAGES	82,818	6.9	.6	24.0	25.7	3.0	335.4
TOTALS	333		4.7	182.4	195.3	24.8	
January 1981	.075	6.7	AH	107.9	71.6	3.0	AH
February	.132	6.9	AH	84.0	92.0	3.8	AH
March	.076	6.7	AH	47.4	38.3	3.0	AH
April	.072	6.9	AH	43.1	40.2	2.4	AH
May	.090	7.0	.6	32.7	32.9	1.8	54.0
June	.098	6.9	.6	33.3	23.9	2.2	61.0
July	.099	6.8	.6	23.7	24.7	2.2	25.0
August	.079	6.9	.6	12.6	8.5	2.2	15.0
September	.118	6.8	.6	42.3	40.6	2.0	280.0
October	.097	6.8	.6	35.6	35.6	3.1	460.0
November	.088	6.8	.5	30.8	48.2	3.7	1,100.0
December	.085	6.9	AH	13.5	12.8	2.6	AH
AVERAGES	92,417	6.8	.6	42.2	39.1	2.7	285.0
TOTALS	405		3.6	423.3	391.9	26.7	
January 1982	.105	6.8	AH	23.6	18.2	3.0	AH
February	.081	7.0	AH	51.7	49.0	4.0	AH
March	.143	7.0	AH	58.9	50.6	3.1	AH
April	.102	7.0	AH	38.0	26.0	3.4	AH
May	.123	6.9	AH	43.8	43.5	3.3	AH
June	.178	6.8	.5	34.3	39.6	2.3	265.0
July	.118	6.7	.6	7.7	10.5	2.5	56.0
August	.061	6.9	.4	23.0	13.5	2.6	109.0
September	.069	6.8	.5	8.7	7.0	3.0	15.0
October	.055	6.9	.4	22.9	12.4	3.2	100.0
November	.062	6.9	AH	16.9	14.5	3.4	AH
December	.080	7.0	AH	25.3	19.6	3.3	AH
AVERAGES	98,083	6.9	.5	29.6	25.4	3.1	109.0
TOTALS	430		2.4	314.4	269.8	32.9	

PACKAGE PLANT NAME: COREY MEADOWS
PACKAGE PLANT NUMBER: L-75
NPDES PERMIT NUMBER: G 701 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.059	6.7	.6	9.6	20.2	2.7	10.0
February	.047	6.7	.6	2.7	9.9	3.5	2.0
March	.045	6.7	.6	1.8	7.4	3.4	2.0
April	.072	6.8	.6	7.0	7.7	3.6	2.0
May	.068	7.0	.6	1.5	4.0	3.1	1.0
June	.059	6.8	.6	2.0	9.9	3.1	14.0
July	.075	7.0	.6	6.1	5.5	2.8	2.0
August	.051	6.7	.6	3.2	1.3	2.9	3.0
September	.040	6.8	.6	3.8	3.6	1.9	3.0
October	.043	6.7	.6	11.9	15.5	2.5	7.0
November	.051	6.9	.6	1.6	6.0	2.9	1.0
December	.082	7.2	.6	4.4	8.6	3.7	2.0
AVERAGES	57,667	6.8	.6	4.6	8.3	3.0	4.1
TOTALS	253		3.7	29.0	51.9	18.8	
January 1980	.071	6.9	.5	17.4	23.3	3.5	18.0
February	.044	6.9	.6	7.6	12.9	3.2	3.0
March	.070	6.8	.6	2.8	7.8	3.3	2.0
April							
May	.076	6.9	.6	1.0	1.8	3.2	1.0
June	.071	6.8	.6	.6	1.6	2.5	1.0
July	.056	6.7	.6	9.1	53.0	1.6	11.0
August	.082	6.8	.6	6.0	8.4	3.2	5.0
September	.058	6.8	.6	AH	AH	2.8	AH
October	.045	6.7	.6	2.5	8.8	3.3	2.0
November	.043	6.8	.5	1.9	4.9	3.2	156.0
December	.046	6.7	.4	2.8	10.9	2.8	1.0
AVERAGES	60,182	6.8	.6	5.2	13.3	3.0	20.0
TOTALS	242		3.4	28.5	73.7	17.8	
January 1981	.043	7.0	AH	2.9	3.4	3.2	AH
February	.058	6.7	AH	12.5	16.9	3.7	AH
March	.061	6.7	AH	3.6	3.1	2.2	AH
April	.055	6.5	AH	2.2	3.2	2.2	AH
May	.062	6.8	.6	1.0	2.0	2.1	1.0
June	.065	6.8	.6	1.0	1.9	1.9	1.0
July	.064	6.7	.6	1.7	3.3	2.1	1.0
August	.047	6.7	.6	1.9	3.1	2.2	3.0
September	.101	6.7	.6	8.4	9.5	1.7	9.0
October	.068	6.9	.5	10.7	17.7	2.5	13.0
November	.080	6.8	.6	9.8	9.8	3.2	2.0
December	.061	6.8	AH	6.8	10.1	2.6	AH
AVERAGES	63,750	6.8	.6	5.2	7.0	2.5	4.3
TOTALS	279		2.5	36.0	48.4	17.0	
January 1982	.075	6.8	AH	10.1	13.2	3.1	AH
February	.063	6.8	AH	6.3	12.2	3.4	AH
March	.108	7.0	AH	12.6	23.8	2.5	AH
April	.091	6.7	AH	3.7	4.5	3.2	AH
May	.061	6.8	AH	4.6	10.5	3.3	AH
June	.067	6.7	.5	3.4	3.5	2.3	5.0
July	.050	6.7	.5	3.5	3.0	2.2	5.0
August	.047	6.7	.4	2.4	4.6	2.0	11.0
September	.062	6.9	.4	3.1	4.4	2.8	10.0
October	.048	6.9	.4	1.9	1.7	3.0	7.0
November	.055	7.0	AH	32.2	44.6	3.5	AH
December	.073	7.1	AH	1.8	3.6	3.2	AH
AVERAGES	66,667	6.8	.4	7.1	10.8	2.9	7.6
TOTALS	292		1.5	51.6	78.1	20.8	

PACKAGE PLANT LINCOLN GREEN
PACKAGE PLANT L-49
NPDES PERMIT H 704 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.109	6.7	.6	13.5	9.7	3.1	22.0
February	.075	6.8	.6	38.2	44.8	3.4	225.0
March	.105	6.7	.6	7.5	9.3	3.5	14.0
April	.142	6.8	.6	6.4	4.3	3.3	4.0
May	.141	7.0	.6	5.1	8.3	3.2	6.0
June	.094	6.9	.6	3.7	8.6	3.1	8.0
July	.091	6.9	.6	2.9	2.7	3.1	3.0
August	.127	6.8	.6	3.6	5.0	3.5	2.0
September	.092	6.7	.6	3.4	2.9	2.8	3.0
October	.078	6.7	.6	16.5	193.2	2.6	33.0
November	.093	6.8	.6	93.4	128.8	3.5	4,021.0
December	.122	7.0	.6	33.0	28.0	3.7	303.0
AVERAGES	105,750	6.8	.6	18.9	37.1	3.2	387.0
TOTALS	**464**		**6.9**	**217.1**	**425.7**	**37.1**	
January 1980	.119	7.1	.5	64.1	72.6	3.5	103.0
February	.102	6.9	.6	29.4	18.0	3.4	124.0
March	.161	6.9	.6	42.3	51.2	3.5	135.0
April							
May	.143	7.1	.6	6.0	7.5	3.1	6.0
June	.134	6.9	.6	10.4	13.2	3.1	8.0
July	.094	6.8	.6	5.7	4.8	3.2	4.0
August	.106	6.9	.6	20.0	18.3	2.5	40.0
September	.102	7.2	.7	AH	AH	2.4	AH
October	.091	6.9	.6	7.7	9.2	2.1	11.0
November	.093	7.0	.6	89.2	165.5	2.9	779.0
December	.140	6.8	.6	21.2	20.3	2.5	42.0
AVERAGES	116,818	7.0	.6	29.6	38.1	2.9	125.2
TOTALS	**469**		**7.0**	**317.2**	**407.9**	**34.2**	
January 1981	.149	7.0	.6	126.7	117.6	3.3	299.0
February	.144	7.0	.5	106.5	71.5	3.9	533.0
March	.128	7.0	.6	35.7	22.0	3.0	58.0
April	.123	6.7	.6	20.7	13.2	3.1	46.0
May	.131	6.7	.6	24.4	28.9	2.8	56.0
June	.184	6.8	.6	15.8	10.7	2.2	15.0
July	.101	6.6	.6	22.8	24.0	2.8	47.0
August	.101	6.8	.6	6.8	8.6	2.4	4.0
September	.170	6.6	.6	14.7	16.2	2.3	10.0
October	.122	6.9	.5	4.1	5.1	3.3	12.0
November	.118	6.9	.6	3.5	2.4	2.5	2.0
December	.129	6.8	AH	5.0	2.7	2.8	AH
AVERAGES	133,333	6.8	.6	32.2	26.9	2.9	98.4
TOTALS	**584**		**7.8**	**465.8**	**389.0**	**41.4**	
January 1982	.098	6.9	AH	17.4	10.3	3.2	AH
February	.122	6.8	AH	15.7	19.2	2.6	AH
March	.161	6.8	AH	15.8	11.6	2.5	AH
April	.158	6.9	AH	47.2	65.7	3.6	AH
May	.109	6.8	AH	35.4	23.8	3.1	AH
June	.107	6.8	.5	46.8	46.4	2.9	199.0
July	.103	6.8	.5	10.6	6.1	2.4	29.0
August	.095	6.7	.4	5.0	5.8	1.9	16.0
September	.102	6.9	.5	10.5	9.6	3.0	55.0
October	.099	6.8	.4	22.4	30.5	3.8	166.0
November	.107	6.9	AH	21.8	31.2	3.4	AH
December	.123	7.0	AH	101.0	136.0	3.4	AH
AVERAGES	115,333	6.8	.5	29.1	33.0	3.0	93.0
TOTALS	**506**		**2.7**	**364.3**	**412.9**	**37.3**	

PACKAGE PLANT NAME: OAK OPENINGS INDUSTRIAL PARK
PACKAGE PLANT NUMBER: L-52
NPDES PERMIT NUMBER: 2PH00013*CD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979							
February	.013	6.8	.6	1.5	6.5	3.7	3.0
March	.032	6.8	.6	3.7	11.5	3.5	7.0
April	.037	6.9	.6	3.8	12.1	3.7	5.0
May	.030	7.0	.6	5.2	15.2	3.4	13.0
June	.024	6.8	.6	3.9	13.6	3.3	21.0
July	.027	6.9	.6	5.0	6.4	3.8	7.0
August	.034	6.8	.6	1.6	8.0	3.7	3.0
September	.038	6.8	.6	4.4	2.5	2.7	2.0
October	.034	6.8	.6	2.2	7.4	3.5	1.0
November	.065	6.7	.6	2.8	11.4	4.7	6.0
December	.046	7.2	.6	16.4	21.3	4.5	17.0
AVERAGES	34,545	6.9	.6	4.6	10.5	3.7	7.7
TOTALS	139		2.1	15.9	36.4	12.7	
January 1980	.052	7.0	.5	4.7	13.0	4.6	7.0
February	.029	6.9	.6	3.6	8.6	4.2	1.0
March	.029	6.9	.6	4.0	12.0	4.1	3.0
April							
May	.025	6.9	.6	3.0	11.1	4.1	2.0
June	.023	6.8	.5	3.1	5.9	4.5	2.0
July	.020	6.7	.6	2.1	5.4	4.0	1.0
August	.021	6.6	.6	2.0	4.9	3.4	3.0
September	.021	6.9	.6	AH	AH	2.4	AH
October	.042	6.8	.6	AH	AH	1.8	2.0
November	.038	7.0	.5	7.0	22.9	2.3	290.0
December	.041	6.7	.4	2.8	10.3	2.9	1.0
AVERAGES	31,000	6.8	.6	3.6	10.5	3.5	31.2
TOTALS	125		1.7	9.3	27.0	10.8	
January 1981	.037	6.7	AH	3.3	3.8	3.2	AH
February	.046	6.8	AH	6.5	13.4	3.8	AH
March	.051	6.5	AH	5.1	10.8	2.5	AH
April	.044	6.7	AH	4.2	5.3	4.1	AH
May	.052	6.7	.6	2.7	8.6	4.6	5.0
June	.060	6.7	.6	2.6	5.5	4.2	2.0
July	.063	6.7	.6	3.3	6.6	4.0	5.0
August	.048	6.8	.6	3.1	6.0	3.4	4.0
September	.051	6.8	.6	2.7	5.2	4.4	3.0
October	.056	6.8	.6	7.6	11.0	3.1	11.0
November	.062	6.8	.6	7.8	14.5	4.1	15.0
December	.056	6.9	AH	5.0	11.2	3.6	AH
AVERAGES	52,167	6.7	.6	4.5	8.5	3.8	6.4
TOTALS	229		2.1	25.4	48.0	21.2	
January 1982	.063	6.8	AH	15.3	21.3	3.9	AH
February	.067	7.0	AH	11.1	17.3	3.7	AH
March	.101	6.9	AH	8.3	12.3	4.1	AH
April	.104	6.9	AH	4.5	7.1	3.9	AH
May	.067	6.9	AH	5.6	8.9	3.7	AH
June	.078	6.9	.5	4.1	6.5	3.6	24.0
July	.064	6.8	.6	12.0	12.2	3.2	62.0
August	.063	6.7	.4	2.9	3.7	2.4	13.0
September	.082	6.8	.5	2.8	2.2	3.1	5.0
October	.062	6.8	.4	4.5	7.1	3.5	21.0
November	.075	6.9	AH	9.9	29.5	3.9	AH
December	.068	7.0	AH	3.3	8.2	3.5	AH
AVERAGES	74,500	6.9	.5	7.0	11.4	3.5	25.0
TOTALS	327		1.8	56.7	91.7	28.6	

PACKAGE PLANT NAME: OAK TERRACE SUBDIVISION
PACKAGE PLANT BER: L-37
NPDES PERMIT NUMBER: 2PH00014*CD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979							
February							
March							
April							
May							
June				1.3	4.3	6.3	3.0
July	.047	6.8	.6	2.2	1.3	3.5	1.0
August	.037	6.8	.6	2.1	5.1	3.6	3.0
September	.054	6.8	.6	22.1	24.5	2.7	27.0
October	.062	6.8	.6	2.7	8.3	4.0	1.0
November	.045	6.7	.6	2.4	5.2	4.4	3.0
December	.064	7.0	.6	3.8	6.0	4.7	3.0
AVERAGES	51,500	6.8	.6	5.2	7.8	4.2	5.9
TOTALS	113		1.8	18.0	26.9	14.3	
January 1980	.046	7.0	.5	2.0	4.5	4.5	1.0
February	.042	6.9	.6	3.9	6.4	4.2	2.0
March	.031	6.9	.6	2.6	4.6	4.2	1.0
April							
May	.045	6.8	.6	4.3	8.8	4.1	4.0
June	.050	7.0	.6	19.9	17.9	4.0	20.0
July	.040	6.6	.6	2.0	6.0	3.8	2.0
August	.046	6.6	.6	1.5	.7	3.1	1.0
September	.043	6.6	.6	AH	AH	2.2	AH
October	.033	6.8	.6	1.8	4.6	2.1	2.0
November	.033	6.9	.5	1.7	6.1	2.6	1.0
December	.049	6.7	.5	1.8	5.3	3.1	2.0
AVERAGES	41,636	6.8	.6	4.2	6.5	3.4	3.6
TOTALS	167		2.4	15.9	24.8	14.4	
January 1981	.059	6.7	.6	2.9	4.1	3.1	2.0
February	.089	6.8	.5	4.6	4.0	3.7	2.0
March	.201	6.7	.5	5.0	7.3	2.7	6.0
April	.156	6.6	.6	4.3	3.4	3.2	6.0
May	.159	6.6	.6	4.2	5.3	2.4	4.0
June	.106	6.6	.6	3.5	6.7	2.7	5.0
July	.067	6.7	.6	4.5	7.4	2.9	5.0
August	.051	6.9	.6	2.5	2.3	2.9	2.0
September	.042	6.7	.6	11.7	13.3	2.1	47.0
October	.051	6.9	.6	45.1	63.0	4.1	110.0
November	.054	6.7	.6	53.0	44.0	3.8	280.0
December	.055	6.8	AH	84.0	147.0	4.1	AH
AVERAGES	90,833	6.7	.6	18.8	25.7	3.1	42.6
TOTALS	398		5.3	184.9	252.6	30.9	
January 1982	.052	6.8	AH	76.0	49.0	4.2	AH
February	.058	7.0	AH	73.0	69.0	3.4	AH
March	.050	6.8	AH	23.7	18.6	2.9	AH
April	.056	6.8	AH	26.0	22.6	3.8	AH
May	.078	6.8	AH	4.4	6.1	3.4	AH
June	.077	6.8	.5	4.9	4.2	3.3	26.0
July	.059	6.7	.6	4.7	4.4	3.1	24.0
August	.066	6.7	.4	18.4	9.9	2.2	27.0
September	.070	6.8	.4	3.9	3.0	3.1	13.0
October	.049	6.8	.4	30.9	37.2	3.5	111.0
November	.054	6.8	AH	6.6	14.6	4.3	AH
December	.062	6.8	AH	20.8	34.7	4.7	AH
AVERAGES	60,917	6.8	.5	24.4	22.8	3.5	40.2
TOTALS	267		1.4	161.4	150.4	23.1	

APPENDIX C

NPDES Permits in the RAP Area

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IG00006*ED OUTFALL: EXPIR. DATE: 10/24/88 STATUS: Expired	Ashland Oil Company 3147 Jessie St Toledo Terminal Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, ship ballast	R.M.: 1.8	0.018	0.018	0.549
PKG PLANT: n/a 2IW00010*AD OUTFALL: 001 EXPIR. DATE: 12/01/79 STATUS: Expired	Bowling Green WTP 304 N. Church St 17549 W. River Rd @ Hull-Prairie Rd Wood County, Plain Twp. OLD NAME(S):	WTRSHED NO: 045 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Hull-Prarie Road Ditch VERIFIED? Yes WASTE: WTP backwash	R.M.: 22.8	8.000	5.550	168.928
PKG PLANT: L-20 2IT00013*BD OUTFALL: EXPIR. DATE: 01/07/87 STATUS: Expired	CSX - Chessie - Presque Isle P.O. Box 45052 Presque Isle, Otter Cr & Bayshore Lucas County, Oregon OLD NAME(S): C&O, Chessie	WTRSHED NO: 028 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, sewage	R.M.: 0.1	0.003	0.003	0.076
PKG PLANT: n/a 2IT00015*AD OUTFALL: 001 EXPIR. DATE: 04/13/90 STATUS: Active	Conrail 415 Emerald Ave. 415 Emerald Ave. Lucas County, Toledo OLD NAME(S): Penn Central	WTRSHED NO: 013 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River via unnamed trib. VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IC00021*FD OUTFALL: EXPIR. DATE: 03/20/92 STATUS: Active	Doehler-Jarvis/Farley, Plant 2 1945 Smead Ave., POB 902 5400 N. Detroit Ave. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Shantee Creek VERIFIED? Yes WASTE: Cooling water	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IF00016*DD OUTFALL: 001 EXPIR. DATE: 12/13/92 STATUS: Active	DuPont De Nemours, Paint Plant PO Box 953 1930 Tremainsville Rd., 43613 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE: Non-contact cooling water	R.M.: 0.0	0.490	0.490	14.914
PKG PLANT: n/a 2IF00016*DD OUTFALL: 002 EXPIR. DATE: 12/13/82 STATUS: Active	DuPont De Nemours, Paint Plant County, OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE:	R.M.: 0.0	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IN00013*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Fondessy / Envirosafe Services of Oh 876 Otter Creek Rd. 876 Otter Creek Rd. Lucas County, Oregon OLD NAME(S): Fondessey	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Runoff, sewage	R.M.: 2.3	0.050	0.050	1.522
PKG PLANT: n/a 2IJ00047*BD OUTFALL: 001 EXPIR. DATE: 03/31/87 STATUS: Expired	France Stone Co., Waterville 8130 Brint Road, PO Box 278 700 S.River Rd Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 22.2	0.300	0.300	9.131
PKG PLANT: L-96 2PH00000*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: To be sewered 7/1/88	Fuller's Creekside Estates 1 Government Center Suite 800 6064 Villamar Lucas County, Washington Twp. OLD NAME(S):	WTRSHED NO: 021 SUB-BASIN: Portage *RAP? Yes *PRE? No STREAM: Shantee Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.100	0.270	8.218
PKG PLANT: n/a 2IH00093*BD OUTFALL: 001 EXPIR. DATE: 08/31/92 STATUS: Active	General Mills PO Box 923 1250 Laskey Rd. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: Silver Creek *RAP? Yes *PRE? Yes STREAM: Jamieson Ditch VERIFIED? Yes WASTE: Runoff, high BOD	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PA00026*CD OUTFALL: EXPIR. DATE: 09/23/88 STATUS: Active	Haskins WWTP Village Hall, Church St. S.R. 64 and King Rd. Wood County, Middleton Twp. OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Liberty High Rd Ditch VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 21.6	0.100	0.060	1.826
PKG PLANT: n/a 2IC00026*CD OUTFALL: EXPIR. DATE: 08/01/82 STATUS: Expired	Hydra-Matic 3044 W. Grant Blvd. 1455 West Alexis Rd Lucas County, Toledo OLD NAME(S): GMC Chevrolet	WTRSHED NO: 023 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.100	3.044
PKG PLANT: n/a 2IN00020*DD OUTFALL: EXPIR. DATE: 09/27/90 STATUS: Active	Libbey Owens Ford - Plants #4 and #8 811 Madison 1701 E Broadway Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Glass mfg process waste	R.M.: 6.6	0.100	0.100	3.044

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IN00030*ED OUTFALL: EXPIR. DATE: 06/30/82 STATUS: Expired	Libbey Owens Ford Float Glass Plant 811 Madison 140 Dixie Hwy Wood County, Rossford OLD NAME(S):	WTRSHED NO: 047 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff,Cooling, Lagoon effluent	R.M.: 6.9	6.500	6.500	197.844
PKG PLANT: L-25 2IN00069*ED OUTFALL: 001 EXPIR. DATE: 08/11/93 STATUS: Active	Liquid Carbonic Corp. 135 S. LaSalle St 3742 Cedar Point Rd., 43616 Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Sewage	R.M.: 1.9	0.002	0.002	0.054
PKG PLANT: n/a 2IG00024*BD OUTFALL: 001 EXPIR. DATE: 10/10/92 STATUS: Active	Marathon Oil Company 4131 Seaman Road 3855 York Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Runoff water	R.M.: 0.0	0.085	0.085	2.587
PKG PLANT: n/a 2PD00015*AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: Expired	Maumee Combined Sewer Overflows 214 Illinois Ave 214 Illinois Ave Lucas County, Maumee OLD NAME(S):	WTRSHED NO: 044, 078 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee VERIFIED? Yes WASTE: Sewage, storm runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PK00000*DD OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Maumee River WWTP 1111 S McCord Rd 5858 North River Road, Waterville Lucas County, Monclova Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 18.2	15.000	9.010	274.242
PKG PLANT: n/a 2IT00005*BD OUTFALL: 001 EXPIR. DATE: 10/25/88 STATUS: Expired	Norfolk Southern RR 8 N. Jefferson St 2750 Front St Lucas County, Toledo OLD NAME(S): N&W RR	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.242	0.242	7.366
PKG PLANT: n/a 2PB00007*CD OUTFALL: EXPIR. DATE: 06/08/89 STATUS: Active	Oregon South Shore Park WWTP 5350 Seaman Road, POB 7541 5760 Bayshore Rd. Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Lake Erie VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 0.0	0.225	0.490	14.914

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IW00220*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: Active ; draft permit	Oregon WTP 5350 Seaman Rd 5350 Seaman Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 029 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Berger Ditch VERIFIED? Yes WASTE: WTP backwash water	R.M.: 0.0	0.320	0.320	9.740
PKG PLANT: n/a 2PD00035*ED OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Oregon WWTP 5330 Seaman Rd Dupont Rd, N of Cedar Point Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee Bay VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 0.0	8.000	4.310	131.186
PKG PLANT: n/a 2IN00075*BD OUTFALL: 001 EXPIR. DATE: 05/26/80 STATUS: Expired	Owens-Illinois, Libbey Plant 27 PO Box 919 940 Ash St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 030 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River via Co. Dt. No.1139 VERIFIED? Yes WASTE: Cooling water,non-contact	R.M.: 0.0	0.000	0.150	4.566
PKG PLANT: n/a 2PD00002*CD OUTFALL: EXPIR. DATE: 06/28/87 STATUS: Expired	Perrysburg WWTP 201 W Indiana 1 West Boundary St Wood County, Perrysburg OLD NAME(S):	WTRSHED NO: 079 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal wastewater	R.M.: 14.5	2.750	3.000	91.313
PKG PLANT: n/a 2IG00013*CD OUTFALL: EXPIR. DATE: 05/10/92 STATUS: Active	Petroleum Fuel & Terminal Co. 2844 Summit Ave. 2844 Summit Ave. Lucas County, Toledo OLD NAME(S): Shell, Apex	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 2.2	0.000	0.000	0.000
PKG PLANT: n/a 2IF00000*CD OUTFALL: EXPIR. DATE: 03/26/90 STATUS: Active	Plaskon Electronic Materials 2829 Glendale Ave 2829 Glendale Ave Lucas County, Toledo OLD NAME(S): Allied Chemical	WTRSHED NO: 013 SUB-BASIN: Maumee River *RAP? Yes *PRE? Yes STREAM: Delaware Creek VERIFIED? Yes WASTE: Cooling water,non-contact	R.M.: 1.2	0.071	0.071	2.161
PKG PLANT: n/a 2IG00007*DD OUTFALL: EXPIR. DATE: 09/02/90 STATUS: Active	Standard Oil - Toledo Refinery PO Box 696 SE cor. Cedar Point Rd @ Bay Shore Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee Bay VERIFIED? Yes WASTE: Refinery & sewage	R.M.: 0.4	25.000	25.000	760.938

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IG00009*CD OUTFALL: EXPIR. DATE: 07/05/92 STATUS: Active (draft)	Sun Petroleum - Marine Terminal PO Box 920 1900-2100 Front Street, Toledo Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 6.5	0.001	0.001	0.015
PKG PLANT: n/a 2IG00003*FD OUTFALL: EXPIR. DATE: 09/24/89 STATUS: Active	Sun Petroleum - Toledo Refinery PO Box 920 1819 Woodville Rd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Refinery, runoff, non-contact cooling	R.M.: 4.9	3.000	3.000	91.313
PKG PLANT: n/a 2IO00001*BD OUTFALL: 001 EXPIR. DATE: 09/20/92 STATUS: Active	Teledyne Industries 1330 Laskey Road 1330 Laskey Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff, non-contact cooling	R.M.: 0.0	0.069	0.069	2.100
PKG PLANT: n/a 2PF00000*GD OUTFALL: EXPIR. DATE: 12/27/90 STATUS: Active	Toledo Bay View Park WWTP 1 Govt Center, Ste 1500 3900 N Summit, 43611 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 1.4	102.000	91.150	2774.378
PKG PLANT: n/a 2ID00011*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Toledo Coke 436 7th Ave. 2563 Front Street, Toledo Lucas County, Toledo OLD NAME(S): Koppers	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, Non-contact cooling water	R.M.: 1.7	3.730	3.730	113.532
PKG PLANT: n/a 2IW00260*BD OUTFALL: 008 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 009 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IW00260*BD OUTFALL: 005 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 006 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 004 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 003 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 002 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*CB OUTFALL: 001 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Backwash supernatant	R.M.: 3.4	10.500	10.500	319.594
PKG PLANT: n/a 2IW00260*BD OUTFALL: 007 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IB00002*CD OUTFALL: EXPIR. DATE: 01/09/92 STATUS: Active	Toledo Edison 300 Madison Ave 300 Madison Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE:	R.M.: 4.0	0.000	0.000	0.000
PKG PLANT: n/a 2IB00001*CD OUTFALL: EXPIR. DATE: 08/09/87 STATUS: Expired	Toledo Edison - ACME Station 300 Madison Ave 1401 Front St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Cooling wtr, Ash ponds	R.M.: 4.0	406.000	406.000	12357.625
PKG PLANT: L-100 2IB00000*JD OUTFALL: 604 EXPIR. DATE: 09/15/90 STATUS: Active	Toledo Edison Bayshore Plant 300 Madison Ave. 4701 Bayshore Road Lucas County, Oregon Twp. OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Sewage & cooling water	R.M.: 0.0	0.015	0.015	0.457
PKG PLANT: n/a 2IV00080*BD OUTFALL: EXPIR. DATE: 01/22/89 STATUS: Active	Waterville WTP 16 N 2nd St Waterworks Dr. Lucas County, Waterville OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: WTP Backwash Water	R.M.: 21.1	0.026	0.026	0.791
** SUBTOTAL **				592.696	570.611	17367.865

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: SWAN CREEK						
PKG PLANT: n/a 2IC00060*AD OUTFALL: 001 EXPIR. DATE: 07/19/93 STATUS: Active	Feinblanking, Ltd. 1510 Albon Rd 1510 Albon Rd Lucas County, Holland OLD NAME(S): Kern-L same addr	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Machining, stamping wastes	R.M.: 0.0	0.009	0.009	0.274
PKG PLANT: n/a 2IC00056*BD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Kern-Liebers USA 1510 Albon Rd 1510 Albon Rd Lucas County, Springfield Twp. OLD NAME(S): Feinblank same addr	WTRSHED NO: 009 SUB-BASIN: Wolf Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Well water	R.M.: 4.1	0.000	0.032	0.974
PKG PLANT: L-62 2PP00003*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active	Oak Openings - Fallen Timbers Plaza 682 Prospect Turnpike near Shaffer Road Lucas County, Swanton Twp. OLD NAME(S):	WTRSHED NO: 007 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Murbach Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.150	0.110	3.348
PKG PLANT: L-53 2PH00013*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active ; draft permit	Oak Openings Industrial Park 1 Government Center Suite 800 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Kujowski Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.180	0.110	3.348
PKG PLANT: L-37 2PH00014*CD OUTFALL: EXPIR. DATE: 09/03/89 STATUS: Active	Oak Terrace 1111 S. McCord Rd. 329 Oak Terrace Blvd. Lucas County, Spencer Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr *RAP? Yes *PRE? No STREAM: Butler Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.100	0.100	3.044
PKG PLANT: L-102 2IO00003*AD OUTFALL: 001 EXPIR. DATE: 07/01/84 STATUS: Expired	Ohio National Guard Toledo Express Airport Toledo Express Airport Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 042 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Zaleski Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.029	0.029	0.867
PKG PLANT: n/a 2IJ00048*CD OUTFALL: 001 EXPIR. DATE: 03/20/93 STATUS: Active	Stoneco - Maumee Plant PO Box 29A, 221 Allen St. 3845 Ford St Lucas County, Monclova Twp. OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 041 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Graham Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 0.0	0.435	0.435	13.240

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: SWAN CREEK						
PKG PLANT: L-98 2PB00066*AD OUTFALL: EXPIR. DATE: 07/13/93 STATUS: Active	Toledo House of Correction 1 Government Center, Ste. 1710 7846 Schadel Road, 43571 Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 040 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Blue Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.040	0.040	1.218
PKG PLANT: L-60 2PS00002*BD OUTFALL: 001 EXPIR. DATE: 05/12/85 STATUS: Expired	Woodside Terrace Trailer Park 5025 Brinthaven 7717 Angola Rd Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.080	0.080	2.4[illegible]
** SUBTOTAL **				1.023	0.945	28.749

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: L-68 2PG00002*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewered 1988	Bentbrook Farms 1 Government Center Suite 800 5447 Sturbridge Road Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.060	0.120	3.652
PKG PLANT: L-71 2PY00000*DD OUTFALL: 001 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor 3230 Centennial Road 3230 Centennial Road Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 2.0	0.030	0.015	0.457
PKG PLANT: L-71 2PY00000*DD OUTFALL: 581 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE:	R.M.: 2.0	0.000	0.000	0.000
PKG PLANT: n/a 2IQ00012*BD OUTFALL: EXPIR. DATE: 02/24/92 STATUS: Active	Diversi Tech General PO Box 875 3729 Twinning St. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Runoff	R.M.: 6.0	0.100	0.100	3.044
PKG PLANT: n/a 2IF00017*CD OUTFALL: EXPIR. DATE: 04/16/90 STATUS: Active	DuPont De Nemours, Formaldehyde Plan PO Box 6568, W. Toledo Stn 700 Matzinger Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Non-contact cooling water	R.M.: 4.8	1.700	1.700	51.744
PKG PLANT: n/a 2IJ00039*FD OUTFALL: 001 EXPIR. DATE: 03/28/93 STATUS: Active	France Stone Co., Silica Plant PO Box 278, 8130 Brint Rd Centennial Road, Sylvania Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 2.0	0.800	2.000	60.875
PKG PLANT: n/a 2IJ00039*FD OUTFALL: 002 EXPIR. DATE: 03/28/93 STATUS: Active	France Stone Co., Silica Plant County, OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 2.0	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: n/a 2IC00022*CD OUTFALL: 003 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 002 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 004 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IN00079*AD OUTFALL: 001 EXPIR. DATE: 05/19/78 STATUS: Expired	King Road Sanitary Landfill 111 S. McCord Rd 3535 King Rd. Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Leachate	R.M.: 4.5	0.000	0.310	9.436
PKG PLANT: L-49 2PH00004*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewered 1988	Lincoln Green Subdivision 1 Government Center Suite 800 6520 Burnham Green Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Potter Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.168	0.160	4.870
PKG PLANT: n/a 2IN00032 OUTFALL: EXPIR. DATE: 11/30/79 STATUS: Revoked	Medusa Portland Cement Company 2301 Front St., Toledo Sylvania, OH Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? No WASTE:	R.M.: 5.3	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: n/a 2IN00072* OUTFALL: EXPIR. DATE: 04/13/83 STATUS: Expired, NPR?	Midland-Ross Surface Combustion Div. 2375 Dorr St 2375 Dorr St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Williams Ditch VERIFIED? Yes WASTE:	R.M.: 0.0	0.000	0.002	0.061
PKG PLANT: L-86 2IS00008*ED OUTFALL: 002 EXPIR. DATE: 06/15/91 STATUS: Active	Reichert Stamping 8200 W. Central Ave. 8200 W. Central Ave. Lucas County, Syvlania Twp. OLD NAME(S): Toledo Steel Tube	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via storm sewer VERIFIED? Yes WASTE: Sewage	R.M.: 5.1	0.008	0.008	0.244
PKG PLANT: n/a 2IG00010*DD OUTFALL: 001 EXPIR. DATE: 07/13/93 STATUS: Active	Standard Oil - Hill Ave Terminal 4850 E 49th St. 2450 Hill Ave., 43607 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Fleig Ditch VERIFIED? No WASTE: Runoff	R.M.: 11.1	0.003	0.003	0.091
** SUBTOTAL **				2.989	4.538	138.125

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: LAKE ERIE						
PKG PLANT: n/a 2IT00002*CD OUTFALL: EXPIR. DATE: 02/17/92 STATUS: Active	CSX - Chessie - Walbridge Terminal PO Box 45052 Union Street, Walbridge Wood County, Walbridge OLD NAME(S): C&O, Chessie	WTRSHED NO: 032 SUB-BASIN: Cedar *RAP? Yes *PRE? No STREAM: Cedar Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: W-19 R 725 *AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: To be sewered in '88	Charter House Inn I-280 @ Hanley Rd. I-280 @ Hanley Rd. Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 SUB-BASIN: Crane *RAP? Yes *PRE? No STREAM: Crane Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.030	0.030	0.913
PKG PLANT: n/a 2IT00007*CD OUTFALL: EXPIR. DATE: 06/23/91 STATUS: Active	Conrail - Stanley Yard 435 Emerald Ave Stanley Yard, 29460 E Broadway, Moli Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 032 SUB-BASIN: Cedar *RAP? Yes *PRE? No STREAM: Cedar Creek VERIFIED? No WASTE:	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PA00012*CD OUTFALL: EXPIR. DATE: / / STATUS: Proposed Facility	Harbor View, Village of 127 Lakeview Dr 127 Lakeview Dr Lucas County, Harbor View OLD NAME(S):	WTRSHED NO: SUB-BASIN: *RAP? Yes *PRE? No STREAM: Lake Erie VERIFIED? Yes WASTE: Untreated sewage, septic tank effluent	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IJ00052*CD OUTFALL: 001 EXPIR. DATE: 06/02/92 STATUS: Active	Stoneco - Lime City Plant PO Box 29A, 221 Allen St. US 20, 8812 Fremont Pike Wood County, Perrysburg OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek *RAP? Yes *PRE? No STREAM: Dry Creek via ditch VERIFIED? Yes WASTE: Quarry runoff	R.M.: 0.0	0.216	0.216	6.575
PKG PLANT: W-39 R 724 *AD OUTFALL: EXPIR. DATE: / / STATUS: To be sewered	Union 76 Truck Stop and Restaurant 16000 9-Mi. Rd I-280 & Tpk. (@ Libbey Rd) Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 SUB-BASIN: Crane *RAP? Yes *PRE? No STREAM: Crane Creek VERIFIED? Yes WASTE:	R.M.: 0.0	0.030	0.030	0.913
** SUBTOTAL **				0.276	0.276	8.401
*** Total ***				596.983	576.369	17543.240

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IG00006*ED OUTFALL: EXPIR. DATE: 10/24/88 STATUS: Expired	Ashland Oil Company 3147 Jessie St Toledo Terminal Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, ship ballast	R.M.: 1.8	0.018	0.018	0.548
PKG PLANT: n/a 2IW00010*AD OUTFALL: 001 EXPIR. DATE: 12/01/79 STATUS: Expired	Bowling Green WTP 304 N. Church St 17549 W. River Rd @ Hull-Prairie Rd Wood County, Plain Twp. OLD NAME(S):	WTRSHED NO: 045 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Hull-Prarie Road Ditch VERIFIED? Yes WASTE: WTP backwash	R.M.: 22.8	8.000	5.550	168.928
PKG PLANT: L-20 2IT00013*BD OUTFALL: EXPIR. DATE: 01/07/87 STATUS: Expired	CSX - Chessie - Presque Isle P.O. Box 45052 Presque Isle, Otter Cr & Bayshore Lucas County, Oregon OLD NAME(S): C&O, Chessie	WTRSHED NO: 028 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, sewage	R.M.: 0.1	0.003	0.003	0.076
PKG PLANT: n/a 2IT00015*AD OUTFALL: 001 EXPIR. DATE: 04/13/90 STATUS: Active	Conrail 415 Emerald Ave. 415 Emerald Ave. Lucas County, Toledo OLD NAME(S): Penn Central	WTRSHED NO: 013 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River via unnamed trib. VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IC00021*FD OUTFALL: EXPIR. DATE: 03/20/92 STATUS: Active	Doehler-Jarvis/Farley, Plant 2 1945 Smead Ave., POB 902 5400 N. Detroit Ave. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Shantee Creek VERIFIED? Yes WASTE: Cooling water	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IF00016*DD OUTFALL: 001 EXPIR. DATE: 12/13/92 STATUS: Active	DuPont De Nemours, Paint Plant PO Box 953 1930 Tremainsville Rd., 43613 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE: Non-contact cooling water	R.M.: 0.0	0.490	0.490	14.914
PKG PLANT: n/a 2IF00016*DD OUTFALL: 002 EXPIR. DATE: 12/13/82 STATUS: Active	DuPont De Nemours, Paint Plant County, OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE:	R.M.: 0.0	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IN00013*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Fondessy / Envirosafe Services of Oh 876 Otter Creek Rd. 876 Otter Creek Rd. Lucas County, Oregon OLD NAME(S): Fondessey	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Runoff, sewage	R.M.: 2.3	0.050	0.050	1.522
PKG PLANT: n/a 2IJ00047*BD OUTFALL: 001 EXPIR. DATE: 03/31/87 STATUS: Expired	France Stone Co., Waterville 8130 Brint Road, PO Box 278 700 S.River Rd Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 22.2	0.300	0.300	9.131
PKG PLANT: L-96 2PH00000*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: To be sewered 7/1/88	Fuller's Creekside Estates 1 Government Center Suite 800 6064 Villamar Lucas County, Washington Twp. OLD NAME(S):	WTRSHED NO: 021 SUB-BASIN: Portage *RAP? Yes *PRE? No STREAM: Shantee Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.100	0.270	8.218
PKG PLANT: n/a 2IH00093*BD OUTFALL: 001 EXPIR. DATE: 08/31/92 STATUS: Active	General Mills PO Box 923 1250 Laskey Rd. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: Silver Creek *RAP? Yes *PRE? Yes STREAM: Jamieson Ditch VERIFIED? Yes WASTE: Runoff, high BOD	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PA00026*CD OUTFALL: EXPIR. DATE: 09/23/88 STATUS: Active	Haskins WWTP Village Hall, Church St. S.R. 64 and King Rd. Wood County, Middleton Twp. OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Liberty High Rd Ditch VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 21.6	0.100	0.060	1.826
PKG PLANT: n/a 2IC00026*CD OUTFALL: EXPIR. DATE: 08/01/82 STATUS: Expired	Hydra-Matic 3044 W. Grant Blvd. 1455 West Alexis Rd Lucas County, Toledo OLD NAME(S): GMC Chevrolet	WTRSHED NO: 023 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.100	3.044
PKG PLANT: n/a 2IN00020*DD OUTFALL: EXPIR. DATE: 09/27/90 STATUS: Active	Libbey Owens Ford - Plants #4 and #8 811 Madison 1701 E Broadway Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Glass mfg process waste	R.M.: 6.6	0.100	0.100	3.044

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IN00030*ED OUTFALL: EXPIR. DATE: 06/30/82 STATUS: Expired	Libbey Owens Ford Float Glass Plant 811 Madison 140 Dixie Hwy Wood County, Rossford OLD NAME(S):	WTRSHED NO: 047 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff,Cooling, Lagoon effluent	R.M.: 6.9	6.500	6.500	197.844
PKG PLANT: L-25 2IN00069*ED OUTFALL: 001 EXPIR. DATE: 08/11/93 STATUS: Active	Liquid Carbonic Corp. 135 S. LaSalle St 3742 Cedar Point Rd., 43616 Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Sewage	R.M.: 1.9	0.002	0.002	0.054
PKG PLANT: n/a 2IG00024*BD OUTFALL: 001 EXPIR. DATE: 10/10/92 STATUS: Active	Marathon Oil Company 4131 Seaman Road 3855 York Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Runoff water	R.M.: 0.0	0.085	0.085	2.587
PKG PLANT: n/a 2PD00015*AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: Expired	Maumee Combined Sewer Overflows 214 Illinois Ave 214 Illinois Ave Lucas County, Maumee OLD NAME(S):	WTRSHED NO: 044, 078 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee VERIFIED? Yes WASTE: Sewage, storm runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PK00000*DD OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Maumee River WWTP 1111 S McCord Rd 5858 North River Road, Waterville Lucas County, Monclova Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 18.2	15.000	9.010	274.242
PKG PLANT: n/a 2IT00005*BD OUTFALL: 001 EXPIR. DATE: 10/25/88 STATUS: Expired	Norfolk Southern RR 8 N. Jefferson St 2750 Front St Lucas County, Toledo OLD NAME(S): N&W RR	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.242	0.242	7.366
PKG PLANT: n/a 2PB00007*CD OUTFALL: EXPIR. DATE: 06/08/89 STATUS: Active	Oregon South Shore Park WWTP 5350 Seaman Road, POB 7541 5760 Bayshore Rd. Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Lake Erie VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 0.0	0.225	0.490	14.914

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IW00220*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: Active ; draft permit	Oregon WTP 5350 Seaman Rd 5350 Seaman Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 029 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Berger Ditch VERIFIED? Yes WASTE: WTP backwash water	R.M.: 0.0	0.320	0.320	9.740
PKG PLANT: n/a 2PD00035*ED OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Oregon WWTP 5330 Seaman Rd Dupont Rd, N of Cedar Point Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee Bay VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 0.0	8.000	4.310	131.186
PKG PLANT: n/a 2IN00075*BD OUTFALL: 001 EXPIR. DATE: 05/26/80 STATUS: Expired	Owens-Illinois, Libbey Plant 27 PO Box 919 940 Ash St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 030 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River via Co. Dt. No.1139 VERIFIED? Yes WASTE: Cooling water,non-contact	R.M.: 0.0	0.000	0.150	4.566
PKG PLANT: n/a 2PD00002*CD OUTFALL: EXPIR. DATE: 06/28/87 STATUS: Expired	Perrysburg WWTP 201 W Indiana 1 West Boundary St Wood County, Perrysburg OLD NAME(S):	WTRSHED NO: 079 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal wastewater	R.M.: 14.5	2.750	3.000	91.313
PKG PLANT: n/a 2IG00013*CD OUTFALL: EXPIR. DATE: 05/10/92 STATUS: Active	Petroleum Fuel & Terminal Co. 2844 Summit Ave. 2844 Summit Ave. Lucas County, Toledo OLD NAME(S): Shell, Apex	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 2.2	0.000	0.000	0.000
PKG PLANT: n/a 2IF00000*CD OUTFALL: EXPIR. DATE: 03/26/90 STATUS: Active	Plaskon Electronic Materials 2829 Glendale Ave 2829 Glendale Ave Lucas County, Toledo OLD NAME(S): Allied Chemical	WTRSHED NO: 013 SUB-BASIN: Maumee River *RAP? Yes *PRE? Yes STREAM: Delaware Creek VERIFIED? Yes WASTE: Cooling water,non-contact	R.M.: 1.2	0.071	0.071	2.161
PKG PLANT: n/a 2IG00007*DD OUTFALL: EXPIR. DATE: 09/02/90 STATUS: Active	Standard Oil - Toledo Refinery PO Box 696 SE cor. Cedar Point Rd @ Bay Shore Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Maumee Bay VERIFIED? Yes WASTE: Refinery & sewage	R.M.: 0.4	25.000	25.000	760.938

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IG00009*CD OUTFALL: EXPIR. DATE: 07/05/92 STATUS: Active (draft)	Sun Petroleum - Marine Terminal PO Box 920 1900-2100 Front Street, Toledo Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 6.5	0.001	0.001	0.015
PKG PLANT: n/a 2IG00003*FD OUTFALL: EXPIR. DATE: 09/24/89 STATUS: Active	Sun Petroleum - Toledo Refinery PO Box 920 1819 Woodville Rd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Refinery, runoff, non-contact cooling	R.M.: 4.9	3.000	3.000	91.313
PKG PLANT: n/a 2IO00001*BD OUTFALL: 001 EXPIR. DATE: 09/20/92 STATUS: Active	Teledyne Industries 1330 Laskey Road 1330 Laskey Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff, non-contact cooling	R.M.: 0.0	0.069	0.069	2.100
PKG PLANT: n/a 2PF00000*GD OUTFALL: EXPIR. DATE: 12/27/90 STATUS: Active	Toledo Bay View Park WWTP 1 Govt Center, Ste 1500 3900 N Summit, 43611 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	R.M.: 1.4	102.000	91.150	2774.278
PKG PLANT: n/a 2ID00011*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Toledo Coke 436 7th Ave. 2563 Front Street, Toledo Lucas County, Toledo OLD NAME(S): Koppers	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, Non-contact cooling water	R.M.: 1.7	3.730	3.730	113.532
PKG PLANT: n/a 2IW00260*BD OUTFALL: 008 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 009 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IW00260*BD OUTFALL: 005 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 006 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 004 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 003 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*BD OUTFALL: 002 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000
PKG PLANT: n/a 2IW00260*CB OUTFALL: 001 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: Backwash supernatant	R.M.: 3.4	10.500	10.500	319.594
PKG PLANT: n/a 2IW00260*BD OUTFALL: 007 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay *RAP? Yes *PRE? No STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	R.M.: 3.4	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: MAUMEE RIVER/BAY						
PKG PLANT: n/a 2IB00002*CD OUTFALL: EXPIR. DATE: 01/09/92 STATUS: Active	Toledo Edison 300 Madison Ave 300 Madison Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE:	R.M.: 4.0	0.000	0.000	0.000
PKG PLANT: n/a 2IB00001*CD OUTFALL: EXPIR. DATE: 08/09/87 STATUS: Expired	Toledo Edison - ACME Station 300 Madison Ave 1401 Front St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Cooling wtr, Ash ponds	R.M.: 4.0	406.000	406.000	12357.625
PKG PLANT: L-100 2IB00000*JD OUTFALL: 604 EXPIR. DATE: 09/15/90 STATUS: Active	Toledo Edison Bayshore Plant 300 Madison Ave. 4701 Bayshore Road Lucas County, Oregon Twp. OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Sewage & cooling water	R.M.: 0.0	0.015	0.015	0.457
PKG PLANT: n/a 2IV00080*BD OUTFALL: EXPIR. DATE: 01/22/89 STATUS: Active	Waterville WTP 16 N 2nd St Waterworks Dr. Lucas County, Waterville OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: WTP Backwash Water	R.M.: 21.1	0.026	0.026	0.791
** SUBTOTAL **				592.696	570.611	17367.965

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: SWAN CREEK						
PKG PLANT: n/a 2IC00060*AD OUTFALL: 001 EXPIR. DATE: 07/19/93 STATUS: Active	Feinblanking, Ltd. 1510 Albon Rd 1510 Albon Rd Lucas County, Holland OLD NAME(S): Kern-L same addr	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Machining, stamping wastes	R.M.: 0.0	0.009	0.009	0.274
PKG PLANT: n/a 2IC00056*BD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Kern-Liebers USA 1510 Albon Rd 1510 Albon Rd Lucas County, Springfield Twp. OLD NAME(S): Feinblank same addr	WTRSHED NO: 009 SUB-BASIN: Wolf Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Well water	R.M.: 4.1	0.000	0.032	0.974
PKG PLANT: L-62 2PP00003*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active	Oak Openings - Fallen Timbers Plaza 682 Prospect Turnpike near Shaffer Road Lucas County, Swanton Twp. OLD NAME(S):	WTRSHED NO: 007 SUB-BASIN: *RAP? Yes *PRE? No STREAM: Murbach Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.150	0.110	3.348
PKG PLANT: L-53 2PH00013*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active ; draft permit	Oak Openings Industrial Park 1 Government Center Suite 800 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Kujowski Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.180	0.110	3.348
PKG PLANT: L-37 2PH00014*CD OUTFALL: EXPIR. DATE: 09/03/89 STATUS: Active	Oak Terrace 1111 S. McCord Rd. 329 Oak Terrace Blvd. Lucas County, Spencer Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr *RAP? Yes *PRE? No STREAM: Butler Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.100	0.100	3.044
PKG PLANT: L-102 2IO00003*AD OUTFALL: 001 EXPIR. DATE: 07/01/84 STATUS: Expired	Ohio National Guard Toledo Express Airport Toledo Express Airport Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 042 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Zaleski Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.029	0.029	0.867
PKG PLANT: n/a 2IJ00048*CD OUTFALL: 001 EXPIR. DATE: 03/20/93 STATUS: Active	Stoneco - Maumee Plant PO Box 29A, 221 Allen St. 3845 Ford St Lucas County, Monclova Twp. OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 041 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Graham Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 0.0	0.435	0.435	13.240

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: SWAN CREEK						
PKG PLANT: L-98 2PB00066*AD OUTFALL: EXPIR. DATE: 07/13/93 STATUS: Active	Toledo House of Correction 1 Government Center, Ste. 1710 7846 Schadel Road, 43571 Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 040 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Blue Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.040	0.040	1.218
PKG PLANT: L-60 2PS00002*BD OUTFALL: 001 EXPIR. DATE: 05/12/85 STATUS: Expired	Woodside Terrace Trailer Park 5025 Brinthaven 7717 Angola Rd Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.080	0.080	2.435
** SUBTOTAL **				1.023	0.945	28.748

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: L-68 2PG00002*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewered 1988	Bentbrook Farms 1 Government Center Suite 800 5447 Sturbridge Road Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.060	0.120	3.653
PKG PLANT: L-71 2PY00000*DD OUTFALL: 001 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor 3230 Centennial Road 3230 Centennial Road Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 2.0	0.030	0.015	0.457
PKG PLANT: L-71 2PY00000*DD OUTFALL: 581 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE:	R.M.: 2.0	0.000	0.000	0.000
PKG PLANT: n/a 2IQ00012*BD OUTFALL: EXPIR. DATE: 02/24/92 STATUS: Active	Diversi Tech General PO Box 875 3729 Twinning St. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Runoff	R.M.: 6.0	0.100	0.100	3.044
PKG PLANT: n/a 2IF00017*CD OUTFALL: EXPIR. DATE: 04/16/90 STATUS: Active	DuPont De Nemours, Formaldehyde Plan PO Box 6568, W. Toledo Stn 700 Matzinger Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Non-contact cooling water	R.M.: 4.8	1.700	1.700	51.744
PKG PLANT: n/a 2IJ00039*FD OUTFALL: 001 EXPIR. DATE: 03/28/93 STATUS: Active	France Stone Co., Silica Plant PO Box 278, 8130 Brint Rd Centennial Road, Sylvania Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 2.0	0.800	2.000	60.875
PKG PLANT: n/a 2IJ00039*FD OUTFALL: 002 EXPIR. DATE: 03/28/93 STATUS: Active	France Stone Co., Silica Plant County, OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 2.0	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: n/a 2IC00022*CD OUTFALL: 003 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 002 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IC00022*CD OUTFALL: 004 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? Yes STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	R.M.: 7.6	0.030	0.030	0.913
PKG PLANT: n/a 2IN00079*AD OUTFALL: 001 EXPIR. DATE: 05/19/78 STATUS: Expired	King Road Sanitary Landfill 111 S. McCord Rd 3535 King Rd. Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Leachate	R.M.: 4.5	0.000	0.310	9.436
PKG PLANT: L-49 2PH00004*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewered 1988	Lincoln Green Subdivision 1 Government Center Suite 800 6520 Burnham Green Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Potter Ditch VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.168	0.160	4.870
PKG PLANT: n/a 2IN00032 OUTFALL: EXPIR. DATE: 11/30/79 STATUS: Revoked	Medusa Portland Cement Company 2301 Front St., Toledo Sylvania, OH Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? No WASTE:	R.M.: 5.3	0.000	0.000	0.000

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: OTTAWA RIVER						
PKG PLANT: n/a 2IN00072* OUTFALL: EXPIR. DATE: 04/13/83 STATUS: Expired, NPR?	Midland-Ross Surface Combustion Div. 2375 Dorr St 2375 Dorr St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Williams Ditch VERIFIED? Yes WASTE:	R.M.: 0.0	0.000	0.002	0.061
PKG PLANT: L-86 2IS00008*ED OUTFALL: 002 EXPIR. DATE: 06/15/91 STATUS: Active	Reichert Stamping 8200 W. Central Ave. 8200 W. Central Ave. Lucas County, Syvlania Twp. OLD NAME(S): Toledo Steel Tube	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via storm sewer VERIFIED? Yes WASTE: Sewage	R.M.: 5.1	0.008	0.008	0.244
PKG PLANT: n/a 2IG00010*DD OUTFALL: 001 EXPIR. DATE: 07/13/93 STATUS: Active	Standard Oil - Hill Ave Terminal 4850 E 49th St. 2450 Hill Ave., 43607 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Fleig Ditch VERIFIED? No WASTE: Runoff	R.M.: 11.1	0.003	0.003	0.091
** SUBTOTAL **				2.989	4.538	138.125

WASTEWATER DISCHARGE NPDES PERMITS
In the Maumee RAP Area

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
** BASIN: LAKE ERIE						
PKG PLANT: n/a 2IT00002*CD OUTFALL: EXPIR. DATE: 02/17/92 STATUS: Active	CSX - Chessie - Walbridge Terminal PO Box 45052 Union Street, Walbridge Wood County, Walbridge OLD NAME(S): C&O, Chessie	WTRSHED NO: 032 SUB-BASIN: Cedar *RAP? Yes *PRE? No STREAM: Cedar Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: W-19 R 725 *AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: To be sewered in '88	Charter House Inn I-280 @ Hanley Rd. I-280 @ Hanley Rd. Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 SUB-BASIN: Crane *RAP? Yes *PRE? No STREAM: Crane Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.030	0.030	0.913
PKG PLANT: n/a 2IT00007*CD OUTFALL: EXPIR. DATE: 06/23/91 STATUS: Active	Conrail - Stanley Yard 435 Emerald Ave Stanley Yard, 29460 E Broadway, Moli Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 032 SUB-BASIN: Cedar *RAP? Yes *PRE? No STREAM: Cedar Creek VERIFIED? No WASTE:	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2PA00012*CD OUTFALL: EXPIR. DATE: / / STATUS: Proposed Facility	Harbor View, Village of 127 Lakeview Dr 127 Lakeview Dr Lucas County, Harbor View OLD NAME(S):	WTRSHED NO: SUB-BASIN: *RAP? Yes *PRE? No STREAM: Lake Erie VERIFIED? Yes WASTE: Untreated sewage, septic tank effluent	R.M.: 0.0	0.000	0.000	0.000
PKG PLANT: n/a 2IJ00052*CD OUTFALL: 001 EXPIR. DATE: 06/02/92 STATUS: Active	Stoneco - Lime City Plant PO Box 29A, 221 Allen St. US 20, 8812 Fremont Pike Wood County, Perrysburg OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek *RAP? Yes *PRE? No STREAM: Dry Creek via ditch VERIFIED? Yes WASTE: Quarry runoff	R.M.: 0.0	0.216	0.216	6.575
PKG PLANT: W-39 R 724 *AD OUTFALL: EXPIR. DATE: / / STATUS: To be sewered	Union 76 Truck Stop and Restaurant 16000 9-Mi. Rd I-280 & Tpk. (@ Libbey Rd) Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 SUB-BASIN: Crane *RAP? Yes *PRE? No STREAM: Crane Creek VERIFIED? Yes WASTE:	R.M.: 0.0	0.030	0.030	0.913
** SUBTOTAL **				0.276	0.276	8.401
*** Total ***				596.983	576.369	17543.240

APPENDIX D

Package Sewage Treatment Plants in the RAP Area

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-5 BUILT: 1961	Eisenhower Jr. High School 331 N. Curtice Lucas County, Jerusalem Twp.	WTRSHED NO: 029 SUB-BASIN: Wolf Creek STREAM: Wolf Creek	20000	20000	7.3
PLANT: L-113 BUILT: 1988	Bay Village Condominiums N side Bayshore Rd 1000' W of Stadium Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	200000	200000	73.1
PLANT: L-19 BUILT: 1962	Buckeye Pipeline 3211 York Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	1500	1500	0.5
PLANT: L-20 T213*BD BUILT: 1957	Chessie System Presque Isle Dock, near Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay	2500	2500	0.9
PLANT: L-99 BUILT:	Clay School Complex 5633 Seaman Rd., @ NW cor. of Seaman & Stadium Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	30000	30000	11.0
PLANT: L-21 BUILT: 1973	G.A.F. Society Banquet Hall 3624 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3000	3000	1.1
PLANT: L-22 BUILT:	Globe Industries, Inc. 645 N. Lallendorf St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
PLANT: L-23 BUILT: 1964	Lakefront Dock & Terminal Co. Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	3000	3000	1.1
PLANT: L-24 BUILT:	Lakeside Trailer Park 5404 Bayshore Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-25 2IN00069 BUILT: 1966	Liquid Carbonic Corp. 3742 Cedar Point Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-26 BUILT: 1981	Lucas County Residential Center 133/157 Wynn Rd. (NW cor. Wynn & Seaman) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-27 BUILT: 1973	National Wire of Ohio, Inc. 832 N. Lallendorf Rd. at York St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3500	3500	1.3
PLANT: L-28 BUILT:	Oregon Municipal Building 5330 Seaman Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	5000	5000	1.8
PLANT: L-29 MI 49267 BUILT:	Shuer, Jay J., School 4955 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Johlin Ditch -> tile field	3000	3000	1.1
PLANT: L-30 BUILT: 1958, 1974	Standard Oil Asphalt Plant Cedar Point Rd. at Otter Creek Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	21500	21500	7.9
PLANT: L-100 2IB00000*ID BUILT:	Toledo Edison Bayshore Plant 4701 Bayshore Road (E. of Channel St.) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Driftmeyer Ditch	15000	15000	5.5
PLANT: L-31 BUILT:	Vargo Carry Out 5781 Corduroy Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2500	2500	0.9
PLANT: L-101 BUILT:	Wynn Elementary School 5633 Bay Shore Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	0	0	0.0
PLANT: L-109 BUILT: 1982	McDonald's SW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	7000	7000	2.6
PLANT: L-107 BUILT: 1980	Pee-Wee Inn Hagman 0.25 mi N of Alexis Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	6000	0	0.0
PLANT: L-108 BUILT: 1981	Speedway Truck Stop NE cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5
PLANT: L-106 BUILT: 1975	Standard Oil NW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-105 BUILT: 1969	State Line Builders Supply NW cor State Line & Ann Arbor RR Lucas County	WTRSHED NO: 025 SUB-BASIN: STREAM: Halfway Creek	2500	2500	0.9
PLANT: L-96 2PH00000*BD BUILT: 1972 or earlier	Fuller's Creekside Estates 6064 Villamar Lucas County, Washington Twp.	WTRSHED NO: 021 SUB-BASIN: Portage STREAM: Halfway Creek	100000	270000	98.6
PLANT: W-47 BUILT:	Southview Estates Mobile Home Park 12865 Five Point Road Wood County, Middleton Twp.	WTRSHED NO: 045 SUB-BASIN: Maumee River STREAM: Maumee River	40000	40000	14.6
PLANT: W-98 BUILT: 1957	East Lane Mobile Manor SE cor Florence & Shomberg Sts. Wood County	WTRSHED NO: 013 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-100 BUILT:	Abbey Aetna 11140 Avenue Rd Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Maumee River STREAM: Grassy Creek?	3000	3000	1.1
PLANT: W-55-W BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-55-E BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-57 BUILT: 1974	Fort Meigs State Memorial Park Off SR 65 bet. Fort & parking lot Wood County, Perrysburg Twp.	WTRSHED NO: 079 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-58 H 202 *AD BUILT: 1975	Henry Packing Company 9244 Fremont Pike (US 20) Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Cedar Creek STREAM: Dry Creek via unnamed tributary	4000	4000	1.5
** Subtotal **			517500	681500	248.9

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-14 BUILT: 1967	Chateau Estates 10430 Airport Hwy Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	36000	36000	13.1
PLANT: L-15 BUILT: 1961	Highway Patrol Post 10391 Airport Hwy., E of Turnpike Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	1500	1500	0.5
PLANT: L-16 BUILT: 1973	Monclova School (New) Monclova Road & Waterville-Monclova Rd Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	5000	5000	1.8
PLANT: L-17 BUILT: 1966	Monclova School (Old) 4526 Lose Rd. Lucas County, Monclova Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Swan Creek	8500	8500	3.1
PLANT: L-33 BUILT: 1970	Peaceful Acres Trailer Park 13555 Waterville-Neapolis Rd. Lucas County, Providence Twp.	WTRSHED NO: 038 SUB-BASIN: Swan Creek STREAM: Blue Creek	12500	12500	4.6
PLANT: L-37 2PH00014*CD BUILT: 1970	Oak Terrace 329 Oak Terrace Blvd. (off Angola at Irwin) Lucas County, Spencer Twp.	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt, Wolf Cr.	100000	100000	36.5
PLANT: L-40 BUILT: 1969	Burroughs Corporation 7300 Airport Highway (W. of Holloway Rd) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	4000	4000	1.5
PLANT: L-43 BUILT: 1988	Elizabeth Scott Nursing Home 2720 Albon Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan/Wolf Cr STREAM: Stone Ditch	15500	11000	4.0
PLANT: L-45 BUILT: 1984, 1958	Glengary Country Club SE cor Hill & Crissey Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Dt. (effl sprayed->golf)	9000	9000	3.3
PLANT: L-47 BUILT: 1968	Holland Amoco (Station #00648) Airport Highway (SR 2) at I-475, SW corner Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	2000	2000	0.7
PLANT: L-48 BUILT: 1962	Holland Shopping Center 6835 Angola Rd. @ SW cor. Clarion & Angola. Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	5000	5000	1.8

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-50 BUILT: 1972	Monclova Care Center 9831 Garden Road, 2000 ft E. of Eber Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	8000	8000	2.9
PLANT: L-51 BUILT: 1969	Neville Funeral Home 7438 Airport Highway Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	8000	8000	2.9
PLANT: L-53 2PH00013*CD BUILT: 1970	Oak Openings Industrial Park 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Kujowski Ditch	180000	110000	40.2
PLANT: L-102 2IO00003*AD BUILT: 1957	Ohio National Guard Toledo Express Airport Lucas County, Springfield Twp.	WTRSHED NO: 042 SUB-BASIN: Swan Creek STREAM: Zaleski Ditch	28500	28500	10.4
PLANT: L-56 BUILT:	Springfield Saloon 904 Clark St. at Angola Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	6000	6000	2.2
PLANT: L-58 BUILT: 1971	Stairs Apts. 750 S. McCord Road (1000 ft N. of Angola Rd) Lucas County, Springfield Twp.	WTRSHED NO: 011 SUB-BASIN: Swan Creek STREAM: Good Ditch	18000	18000	6.6
PLANT: L-57 BUILT: 1968	Sun Oil Company 6405 Airport Highway (at I-475) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	1500	1500	0.5
PLANT: L-59 BUILT: 1972	Villa West 10005 Garden Road Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	15000	15000	5.5
PLANT: L-60 S702*BD BUILT: 1969	Woodside Terrace Trailer Park 7717 Angola Rd Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek via tributary from north	80000	80000	29.2
PLANT: L-61 BUILT: 1979	Arrowhead Trailer Park 5402 Jerome Road, W. side SR 295, S. of Turnpike Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Wiregrass Ditch	35500	35500	13.0
PLANT: L-62 2PP00003*CD BUILT: 1961 or earlier	Oak Openings - Fallen Timbers Service Plaza Turnpike near Shaffer Road Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan/Wolf Cr STREAM: Murback Ditch->Prairie Ditch->AI Cr	150000	110000	40.2

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-63 BUILT:	Ohio Gas Co. Airport Highway Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	2000	2000	0.7
PLANT: L-64 BUILT: 1951	Swanton School Airport Highway E. of US 20A (Maumee-Western Road) Lucas County, Swanton Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Gale Run	6000	6000	1.6
PLANT: L-65 BUILT: 1963	Valleywood Golf Club 13501 Airport Hwy. @ NW cor Scott & SR 2 Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	12500	12500	4.6
PLANT: L-97 BUILT: 1975 (additions)	Sisters of Notre Dame (AKA Lial Convent) 5900 Davis Road, bet. Obee & Weckerly Rds. Lucas County, Waterville Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Swan Creek via Lake Lial	17500	17500	6.4
PLANT: L-98 2PB00066*AD BUILT: 1988	Toledo House of Correction 7846 Schadel Road, 43571 Lucas County, Waterville Twp.	WTRSHED NO: 040 SUB-BASIN: Swan Creek STREAM: Blue Creek	40000	40000	14.6
** Subtotal **			807500	693000	252.6

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-35 BUILT:	Corbett Gentry (Private Residence) 3917 Richfield Center Rd. Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1500	1500	0.5
PLANT: L-36 BUILT:	Richfield Center Market 3902 Washburn Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1000	1000	0.4
PLANT: L-38 BUILT: 1963	Spencer-Sharples School Unknown Lucas County, Spencer Twp.	WTRSHED NO: 001 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	15000	0	0.0
PLANT: L-39 BUILT: 1960, 1974	Bancroft Trailer Park 6951 Bancroft, Toledo OH 43615 (bet. McCord & King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Haefner Ditch	6000	6000	2.2
PLANT: L-41 BUILT: 1967	Crissey Elementary School #1 Geiser Road (NW corner Crissey & Geiser Roads) Lucas County, Springfield Twp.	WTRSHED NO: 001 SUB-BASIN: Swan Creek STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	6000	6000	1.6
PLANT: L-42 BUILT: 1974	Dorr St. Elementary School Dorr and King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	13000	13000	4.7
PLANT: L-46 BUILT: 1966, 1975	Hidden Lake 7777 W. Bancroft Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	7200	7200	2.6
PLANT: L-49 H 704 *AD BUILT: 1971 or before	Lincoln Green Subdivision 6520 Burnham Green Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink/Heldman Ditch	168000	160000	58.4
PLANT: L-52 BUILT: 1970	Oak Grove Mobile Court 1839 McCord Rd, N. of NW cor. of intersection w/ D Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Haeffner Ditch	8500	8500	3.1
PLANT: L-54 BUILT: 1970	Royal Vilage Mobile Home Park 7519 Dorr St. (betw. Dorr & Nebraska) Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Heldman/Zink Ditch	40000	40000	14.6
PLANT: L-44 BUILT: 1971	Twin Hills Apts. (form. 4S+2) 6653 Dorcas @ SW cor. of Dorcas & Hill Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink Ditch	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-67 BUILT: 1969	Arbor Hills Jr. High (Sylvania Middle School) 5334 Whiteford Rd @ SE cor. Whiteford & McGregor Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via tributary	18000	18000	6.6
PLANT: L-69 BUILT: 1971, 1974	Briarfield Rest Home 5757 Whiteford Road (N of Alexis) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	15000	15000	5.5
PLANT: L-71 Y700*CD BUILT: 1980 (expansion)	Centennial Manor 3230 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	30000	30000	11.0
PLANT: L-72 BUILT: 1959	Central Avenue Elementary School 7460 W. Central Ave. at NE cor. Centennial Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-73 BUILT: 1963	Central Mobile Village Trailer Park 7924 W Central Ave. (E. of Centennial Rd) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-76 BUILT: 1974	Courts of Sylvania Centennial Rd. at Little Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek -> tile field	2000	2000	0.7
PLANT: L-77 BUILT:	Design for Living 7640 W. Bancroft St. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-78 BUILT: 1971	Franklin Park Cinemas 5235 Monroe St., 0.5 mi. W of Talmadge Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tifft Ditch via storm sewer	12000	12000	4.4
PLANT: L-79 BUILT: 1971	Garden Court South Apartments 5522 Alexis Rd @ SW cor. of Alexis & Rudyard Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	3000	3000	1.1
PLANT: L-80 BUILT: 1969	General Telephone 3126 McCord Road at Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 202 SUB-BASIN: Swan Creek STREAM: Hill Ditch	1500	1500	0.5
PLANT: L-81 BUILT: 1973	Golden Garden Tavern & Restaurant 8256 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

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** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-5 BUILT: 1961	Eisenhower Jr. High School 331 N. Curtice Lucas County, Jerusalem Twp.	WTRSHED NO: 029 SUB-BASIN: Wolf Creek STREAM: Wolf Creek	20000	20000	7.3
PLANT: L-113 BUILT: 1988	Bay Village Condominiums N side Bayshore Rd 1000' W of Stadium Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	200000	200000	73.1
PLANT: L-19 BUILT: 1962	Buckeye Pipeline 3211 York Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	1500	1500	0.5
PLANT: L-20 T213*BD BUILT: 1957	Chessie System Presque Isle Dock, near Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay	2500	2500	0.9
PLANT: L-99 BUILT:	Clay School Complex 5633 Seaman Rd., @ NW cor. of Seaman & Stadium Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	30000	30000	11.0
PLANT: L-21 BUILT: 1973	G.A.F. Society Banquet Hall 3624 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3000	3000	1.1
PLANT: L-22 BUILT:	Globe Industries, Inc. 645 N. Lallendorf St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
PLANT: L-23 BUILT: 1964	Lakefront Dock & Terminal Co. Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	3000	3000	1.1
PLANT: L-24 BUILT:	Lakeside Trailer Park 5404 Bayshore Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-25 2IN00069 BUILT: 1966	Liquid Carbonic Corp. 3742 Cedar Point Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-26 BUILT: 1981	Lucas County Residential Center 133/157 Wynn Rd. (NW cor. Wynn & Seaman) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
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** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-27 BUILT: 1973	National Wire of Ohio, Inc. 832 N. Lallendorf Rd. at York St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3500	3500	1.3
PLANT: L-28 BUILT:	Oregon Municipal Building 5330 Seaman Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	5000	5000	1.8
PLANT: L-29 MI 49267 BUILT:	Shuer, Jay J., School 4955 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Johlin Ditch -> tile field	3000	3000	1.1
PLANT: L-30 BUILT: 1958, 1974	Standard Oil Asphalt Plant Cedar Point Rd. at Otter Creek Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	21500	21500	7.9
PLANT: L-100 2IB00000*ID BUILT:	Toledo Edison Bayshore Plant 4701 Bayshore Road (E. of Channel St.) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Driftmeyer Ditch	15000	15000	5.5
PLANT: L-31 BUILT:	Vargo Carry Out 5781 Corduroy Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2500	2500	0.9
PLANT: L-101 BUILT:	Wynn Elementary School 5633 Bay Shore Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	0	0	0.0
PLANT: L-109 BUILT: 1982	McDonald's SW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	7000	7000	2.6
PLANT: L-107 BUILT: 1980	Pee-Wee Inn Hagman 0.25 mi N of Alexis Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	6000	0	0.0
PLANT: L-108 BUILT: 1981	Speedway Truck Stop NE cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5
PLANT: L-106 BUILT: 1975	Standard Oil NW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5

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** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-105 BUILT: 1969	State Line Builders Supply NW cor State Line & Ann Arbor RR Lucas County	WTRSHED NO: 025 SUB-BASIN: STREAM: Halfway Creek	2500	2500	0.9
PLANT: L-96 2PH00000*BD BUILT: 1972 or earlier	Fuller's Creekside Estates 6064 Villamar Lucas County, Washington Twp.	WTRSHED NO: 021 SUB-BASIN: Portage STREAM: Halfway Creek	100000	270000	98.6
PLANT: W-47 BUILT:	Southview Estates Mobile Home Park 12865 Five Point Road Wood County, Middleton Twp.	WTRSHED NO: 045 SUB-BASIN: Maumee River STREAM: Maumee River	40000	40000	14.6
PLANT: W-98 BUILT: 1957	East Lane Mobile Manor SE cor Florence & Shomberg Sts. Wood County	WTRSHED NO: 013 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-100 BUILT:	Abbey Aetna 11140 Avenue Rd Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Maumee River STREAM: Grassy Creek?	3000	3000	1.1
PLANT: W-55-W BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-55-E BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-57 BUILT: 1974	Fort Meigs State Memorial Park Off SR 65 bet. Fort & parking lot Wood County, Perrysburg Twp.	WTRSHED NO: 079 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-58 H 202 *AD BUILT: 1975	Henry Packing Company 9244 Fremont Pike (US 20) Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Cedar Creek STREAM: Dry Creek via unnamed tributary	4000	4000	1.5
** Subtotal **			517500	681500	248.9

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** Basin Totals for SWAN CREEK					
PLANT: L-14 BUILT: 1967	Chateau Estates 10430 Airport Hwy Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	36000	36000	13.1
PLANT: L-15 BUILT: 1961	Highway Patrol Post 10391 Airport Hwy., E of Turnpike Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	1500	1500	0.5
PLANT: L-16 BUILT: 1973	Monclova School (New) Monclova Road & Waterville-Monclova Rd Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	5000	5000	1.8
PLANT: L-17 BUILT: 1966	Monclova School (Old) 4526 Lose Rd. Lucas County, Monclova Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Swan Creek	8500	8500	3.1
PLANT: L-33 BUILT: 1970	Peaceful Acres Trailer Park 13555 Waterville-Neapolis Rd. Lucas County, Providence Twp.	WTRSHED NO: 038 SUB-BASIN: Swan Creek STREAM: Blue Creek	12500	12500	4.6
PLANT: L-37 2PH00014*CD BUILT: 1970	Oak Terrace 329 Oak Terrace Blvd. (off Angola at Irwin) Lucas County, Spencer Twp.	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt, Wolf Cr.	100000	100000	36.5
PLANT: L-40 BUILT: 1969	Burroughs Corporation 7300 Airport Highway (W. of Holloway Rd) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	4000	4000	1.5
PLANT: L-43 BUILT: 1988	Elizabeth Scott Nursing Home 2720 Albon Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan/Wolf Cr STREAM: Stone Ditch	15500	11000	4.0
PLANT: L-45 BUILT: 1984, 1958	Glengary Country Club SE cor Hill & Crissey Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Dt. (effl sprayed->golf)	9000	9000	3.3
PLANT: L-47 BUILT: 1968	Holland Amoco (Station #00648) Airport Highway (SR 2) at I-475, SW corner Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	2000	2000	0.7
PLANT: L-48 BUILT: 1962	Holland Shopping Center 6835 Angola Rd. @ SW cor. Clarion & Angola. Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	5000	5000	1.8

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** Basin Totals for SWAN CREEK					
PLANT: L-50 BUILT: 1972	Monclova Care Center 9831 Garden Road, 2000 ft E. of Eber Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	8000	8000	2.9
PLANT: L-51 BUILT: 1969	Neville Funeral Home 7438 Airport Highway Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	8000	8000	2.9
PLANT: L-53 2PH00013*CD BUILT: 1970	Oak Openings Industrial Park 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Kujowski Ditch	180000	110000	40.2
PLANT: L-102 2I000003*AD BUILT: 1957	Ohio National Guard Toledo Express Airport Lucas County, Springfield Twp.	WTRSHED NO: 042 SUB-BASIN: Swan Creek STREAM: Zaleski Ditch	28500	28500	10.4
PLANT: L-56 BUILT:	Springfield Saloon 904 Clark St. at Angola Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	6000	6000	2.2
PLANT: L-58 BUILT: 1971	Stairs Apts. 750 S. McCord Road (1000 ft N. of Angola Rd) Lucas County, Springfield Twp.	WTRSHED NO: 011 SUB-BASIN: Swan Creek STREAM: Good Ditch	18000	18000	6.6
PLANT: L-57 BUILT: 1968	Sun Oil Company 6405 Airport Highway (at I-475) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	1500	1500	0.5
PLANT: L-59 BUILT: 1972	Villa West 10005 Garden Road Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	15000	15000	5.5
PLANT: L-60 S702*BD BUILT: 1969	Woodside Terrace Trailer Park 7717 Angola Rd Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek via tributary from north	80000	80000	29.2
PLANT: L-61 BUILT: 1979	Arrowhead Trailer Park 5402 Jerome Road, W. side SR 295, S. of Turnpike Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Wiregrass Ditch	35500	35500	13.0
PLANT: L-62 2PP00003*CD BUILT: 1961 or earlier	Oak Openings - Fallen Timbers Service Plaza Turnpike near Shaffer Road Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan/Wolf Cr STREAM: Murback Ditch->Prairie Ditch->AI Cr	150000	110000	40.2

PACKAGE SEWAGE TREATMENT PLANTS
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PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-63 BUILT:	Ohio Gas Co. Airport Highway Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	2000	2000	0.7
PLANT: L-64 BUILT: 1951	Swanton School Airport Highway E. of US 20A (Maumee-Western Road) Lucas County, Swanton Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Gale Run	6000	6000	1.6
PLANT: L-65 BUILT: 1963	Valleywood Golf Club 13501 Airport Hwy. @ NW cor Scott & SR 2 Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	12500	12500	4.6
PLANT: L-97 BUILT: 1975 (additions)	Sisters of Notre Dame (AKA Lial Convent) 5900 Davis Road, bet. Obee & Weckerly Rds. Lucas County, Waterville Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Swan Creek via Lake Lial	17500	17500	6.4
PLANT: L-98 2PB00066*AD BUILT: 1988	Toledo House of Correction 7846 Schadel Road, 43571 Lucas County, Waterville Twp.	WTRSHED NO: 040 SUB-BASIN: Swan Creek STREAM: Blue Creek	40000	40000	14.6
** Subtotal **			807500	693000	252.6

PACKAGE SEWAGE TREATMENT PLANTS
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PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-35 BUILT:	Corbett Gentry (Private Residence) 3917 Richfield Center Rd. Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1500	1500	0.5
PLANT: L-36 BUILT:	Richfield Center Market 3902 Washburn Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1000	1000	0.4
PLANT: L-38 BUILT: 1963	Spencer-Sharples School Unknown Lucas County, Spencer Twp.	WTRSHED NO: 001 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	15000	0	0.0
PLANT: L-39 BUILT: 1960, 197[illegible]	Bancroft Trailer Park 6951 Bancroft, Toledo OH 43615 (bet. McCord & King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Haefner Ditch	6000	6000	2.2
PLANT: L-41 BUILT: 1967	Crissey Elementary School #1 Geiser Road (NW corner Crissey & Geiser Roads) Lucas County, Springfield Twp.	WTRSHED NO: 001 SUB-BASIN: Swan Creek STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	6000	6000	1.6
PLANT: L-42 BUILT: 1974	Dorr St. Elementary School Dorr and King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	13000	13000	4.7
PLANT: L-46 BUILT: 1966, 1975	Hidden Lake 7777 W. Bancroft Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	7200	7200	2.6
PLANT: L-49 H 704 *AD BUILT: 1971 or before	Lincoln Green Subdivision 6520 Burnham Green Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink/Heldman Ditch	168000	160000	58.4
PLANT: L-52 BUILT: 1970	Oak Grove Mobile Court 1839 McCord Rd. N. of NW cor. of intersection w/ D Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Haeffner Ditch	8500	8500	3.1
PLANT: L-54 BUILT: 1970	Royal Vilage Mobile Home Park 7519 Dorr St. (betw. Dorr & Nebraska) Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Heldman/Zink Ditch	40000	40000	14.6
PLANT: L-44 BUILT: 1971	Twin Hills Apts. (form. 4S+2) 6653 Dorcas @ SW cor. of Dorcas & Hill Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink Ditch	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-67 BUILT: 1969	Arbor Hills Jr. High (Sylvania Middle School) 5334 Whiteford Rd @ SE cor. Whiteford & McGregor Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via tributary	18000	18000	6.6
PLANT: L-69 BUILT: 1971, 1974	Briarfield Rest Home 5757 Whiteford Road (N of Alexis) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	15000	15000	5.5
PLANT: L-71 Y700*CD BUILT: 1980 (expansion)	Centennial Manor 3230 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	30000	30000	11.0
PLANT: L-72 BUILT: 1959	Central Avenue Elementary School 7460 W. Central Ave. at NE cor. Centennial Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-73 BUILT: 1963	Central Mobile Village Trailer Park 7924 W Central Ave. (E. of Centennial Rd) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-76 BUILT: 1974	Courts of Sylvania Centennial Rd. at Little Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek -> tile field	2000	2000	0.7
PLANT: L-77 BUILT:	Design for Living 7640 W. Bancroft St. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-78 BUILT: 1971	Franklin Park Cinemas 5235 Monroe St., 0.5 mi. W of Talmadge Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tifft Ditch via storm sewer	12000	12000	4.4
PLANT: L-79 BUILT: 1971	Garden Court South Apartments 5522 Alexis Rd @ SW cor. of Alexis & Rudyard Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	3000	3000	1.1
PLANT: L-80 BUILT: 1969	General Telephone 3126 McCord Road at Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 202 SUB-BASIN: Swan Creek STREAM: Hill Ditch	1500	1500	0.5
PLANT: L-81 BUILT: 1973	Golden Garden Tavern & Restaurant 8256 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-83 BUILT: 1967	Home Cafe 5102 W. Alexis Rd (at Whiteford Rd.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	3500	3500	1.3
PLANT: L-85 BUILT: 1970	Oak Tree (Shopping Center) 4024 N. Holland-Sylvania Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8500	8500	3.1
PLANT: L-86 2IS00008*ED BUILT: 1964	Reichert Stamping 8200 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9
PLANT: L-87 2IQ00002 BUILT: 1970	Robintech 3610 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-88 BUILT: 1973	Second Honeymoon (Motel) 8613 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	7000	7000	2.6
PLANT: L-82 BUILT: 1966	Shed, The 5365 Monroe St (at Sadalia Road) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via Monroe St. storm	2500	2500	0.9
PLANT: L-90-B BUILT: 1969 (Phase I)	Swiss Aire Chalet Condominiums, Middle plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-90-A BUILT: 1968 (Phase III)	Swiss Aire Chalet Condominiums, North Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	12000	12000	4.4
PLANT: L-90-C BUILT: 1967 (Phase II)	Swiss Aire Chalet Condominiums, South Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-92 BUILT: 1977 (filters)	Toledo Concrete Pipe Company 3756 Centennial Road, (S. of Sylvania Ave.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-70 BUILT: 1973, 1981	Ventura's Restaurant 7742 W. Bancroft, (west of Hesyler) Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: STREAM: Haeffer Ditch via	7000	7000	2.6

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-94 BUILT:	Wayside General Store 7702 W. Bancroft Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-95 BUILT: 1966	Whiteford Elementary School 4708 Whiteford Rd Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	10000	10000	3.7
PLANT: L-104 BUILT: 1960	Mill Mfg. Co. 4511 South St. Lucas County	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Ottawa River via storm sewer	1500	1500	0.5
PLANT: L-112 BUILT: 1970	Netterfield's Fish & Chips N side Monroe just E of Laskey Lucas County	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tifft Ditch?	6000	0	0.0
** Subtotal **			465700	436700	159.0

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: L-1 BUILT: 1964	Anchor Point Marina (Condo Marine Properties) off Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie, via boat lagoon	10000	10000	3.7
PLANT: L-2 BUILT:	Butch and Denny's Bait and Sporting Goods Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-3 BUILT: 1969	Cooley Canal Yacht Club Bono Rd. - South Side, North of SR 2 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	4000	4000	1.5
PLANT: L-4 BUILT: 1974	Country Inn 10711 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-6 BUILT:	Flying Bridge Restaurant Anchor Point, N. side Corduroy Rd., E. of Teachout Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
PLANT: L-7 BUILT:	Gulish Villa 7802 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie via Anderson Ditch via SR	7000	7000	2.6
PLANT: L-8 BUILT: 1967	Jack's Cardinal Supermarket SE Cor. Howard Rd. & Rachel Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1000	1000	0.4
PLANT: L-9 BUILT: 1962	Lakemont Landing N. end Coolie Rd., Reno Plat 4, lot 1581 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	6000	6000	1.1
PLANT: L-10 BUILT: 1967 (expansion)	Our Lady of Mt. Carmel E. Side of Elliston Rd., N. of Veler Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	4000	4000	1.5
PLANT: L-11 BUILT:	Professional Mechanical Service 406 N. Howard Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-12 BUILT: 1965	Wolf Creek Sportsman's Association 349 Teachout Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: O-2 BUILT: 1958	Allen Park Mobile Court Reservation Line Road Ottawa County, Allen Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Cedar Creek	5000	11700	4.3
PLANT: O-5 OH 0003425 BUILT: 1967	Guardian Industries NW cor Martin-Moline Rd. at SR 51 Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Little Crane Creek	2000	2750	1.0
PLANT: O-4 BUILT: 1972, 1983	Luther Home of Mercy Corner of Williston and Main St. Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	32500	32500	11.9
PLANT: O-7 BUILT: 1975	Wayside Inn NE cor SR 579 at SR 2 (& Graytown Rd) Ottawa County, Benton Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek via tributary	3500	3500	1.3
PLANT: W-94 BUILT: 1986	795 Fuel Stop (Total Oil & Arxon Motel) I-280 @ SR 795 3510 Moline-Martin Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	12000	12000	4.4
PLANT: W-17 BUILT:	Berman's Supper Club/Christmas Shop 5104 Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	12000	12000	4.4
PLANT: W-27 BUILT:	Lusher Trailer Court E. Broadway @ Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek	2000	2000	0.7
PLANT: W-28 BUILT: 1967	Metcalf Airport Airport Rd (N of NW cor. SR 795 & I-280) Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5
PLANT: W-33 BUILT: 1982	Rudolph/Libbe Inc. 6494 Latcha Road Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	1500	1500	0.5
PLANT: W-91 BUILT: 1960	Sohio I-280 @ SR 795 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	1500	0	0.0
PLANT: W-36 BUILT: 1966	Total Oil Station SR 795 @ I-280, 3510 Martin-Moline Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: W-40 BUILT: 1974	Wagoner Apartments 6817 Fremont Pike: US 20, SE of Tracy Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek via storm sewer	5000	5000	1.8
PLANT: W-87-N BUILT: 1958	Wood-Lake Trailer Park NE cor. of Cummings Road crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	15000	15000	5.5
PLANT: W-87-S BUILT: 1965	Wood-Lake Trailer Park NE cor. of Cummings Rd crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	9000	9000	3.3
PLANT: W-54 BUILT:	Bayer Trailer Park US 20, E. of Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek or Grassy Creek	12500	12500	4.6
PLANT: W-56 BUILT:	Five Points Trailer Park 24370 Route 199 @ SE cor int Five Pts/Dunbrdg Rd Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: STREAM:	7000	7000	2.6
PLANT: W-59 BUILT: 1948	Lime City School US 20 & Lime City Road Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1840	0	0.0
PLANT: W-61 BUILT:	Perrysburg Estates MHP, SS #5 Lime City Rd, N of Reitz Rd. + 23720 Lime City Rd Wood County, Perrysburg Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Ditch	25000	25000	9.1
PLANT: W-60 BUILT:	Perrysburg Township Police & Ambulance Building 26609 Lime City Road, N. of US 20 Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1500	1500	0.5
PLANT: W-97 BUILT: 1966	Leisure Village Mobile Home Park N side Fremont Pike (US 20) @ Lemoyne Rd Wood County, Troy Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	4000	4000	1.5
** Subtotal **			200840	204950	73.8
*** Total ***			1991540	2016150	734.2

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-5 BUILT: 1961	Eisenhower Jr. High School 331 N. Curtice Lucas County, Jerusalem Twp.	WTRSHED NO: 029 SUB-BASIN: Wolf Creek STREAM: Wolf Creek	20000	20000	7.3
PLANT: L-113 BUILT: 1988	Bay Village Condominiums N side Bayshore Rd 1000' W of Stadium Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	200000	200000	73.1
PLANT: L-19 BUILT: 1962	Buckeye Pipeline 3211 York Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	1500	1500	0.5
PLANT: L-20 T213*BD BUILT: 1957	Chessie System Presque Isle Dock, near Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay	2500	2500	0.9
PLANT: L-99 BUILT:	Clay School Complex 5633 Seaman Rd., @ NW cor. of Seaman & Stadium Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	30000	30000	11.0
PLANT: L-21 BUILT: 1973	G.A.F. Society Banquet Hall 3624 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3000	3000	1.1
PLANT: L-22 BUILT:	Globe Industries, Inc. 645 N. Lallendorf St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
PLANT: L-23 BUILT: 1964	Lakefront Dock & Terminal Co. Otter Creek & Bayshore Rds Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	3000	3000	1.1
PLANT: L-24 BUILT:	Lakeside Trailer Park 5404 Bayshore Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-25 2IN00069 BUILT: 1966	Liquid Carbonic Corp. 3742 Cedar Point Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-26 BUILT: 1981	Lucas County Residential Center 133/157 Wynn Rd. (NW cor. Wynn & Seaman) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-27 BUILT: 1973	National Wire of Ohio, Inc. 832 N. Lallendorf Rd. at York St. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3500	3500	1.3
PLANT: L-28 BUILT:	Oregon Municipal Building 5330 Seaman Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	5000	5000	1.8
PLANT: L-29 MI 49267 BUILT:	Shuer, Jay J., School 4955 Seaman Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Johlin Ditch -> tile field	3000	3000	1.1
PLANT: L-30 BUILT: 1958, 1974	Standard Oil Asphalt Plant Cedar Point Rd. at Otter Creek Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	21500	21500	7.9
PLANT: L-100 2IB00000*ID BUILT:	Toledo Edison Bayshore Plant 4701 Bayshore Road (E. of Channel St.) Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Driftmeyer Ditch	15000	15000	5.5
PLANT: L-31 BUILT:	Vargo Carry Out 5781 Corduroy Rd. Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2500	2500	0.9
PLANT: L-101 BUILT:	Wynn Elementary School 5633 Bay Shore Rd Lucas County	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	0	0	0.0
PLANT: L-109 BUILT: 1982	McDonald's SW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	7000	7000	2.6
PLANT: L-107 BUILT: 1980	Pee-Wee Inn Hagman 0.25 mi N of Alexis Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	6000	0	0.0
PLANT: L-108 BUILT: 1981	Speedway Truck Stop NE cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5
PLANT: L-106 BUILT: 1975	Standard Oil NW cor Alexis & Hagman Lucas County	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for MAUMEE RIVER/BAY					
PLANT: L-105 BUILT: 1969	State Line Builders Supply NW cor State Line & Ann Arbor RR Lucas County	WTRSHED NO: 025 SUB-BASIN: STREAM: Halfway Creek	2500	2500	0.9
PLANT: L-96 2PH00000*BD BUILT: 1972 or earlier	Fuller's Creekside Estates 6064 Villamar Lucas County, Washington Twp.	WTRSHED NO: 021 SUB-BASIN: Portage STREAM: Halfway Creek	100000	270000	98.6
PLANT: W-47 BUILT:	Southview Estates Mobile Home Park 12865 Five Point Road Wood County, Middleton Twp.	WTRSHED NO: 045 SUB-BASIN: Maumee River STREAM: Maumee River	40000	40000	14.6
PLANT: W-98 BUILT: 1957	East Lane Mobile Manor SE cor Florence & Shomberg Sts. Wood County	WTRSHED NO: 013 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-100 BUILT:	Abbey Aetna 11140 Avenue Rd Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Maumee River STREAM: Grassy Creek?	3000	3000	1.1
PLANT: W-55-W BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-55-E BUILT:	Divine Word Prepatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-57 BUILT: 1974	Fort Meigs State Memorial Park Off SR 65 bet. Fort & parking lot Wood County, Perrysburg Twp.	WTRSHED NO: 079 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-58 H 202 *AD BUILT: 1975	Henry Packing Company 9244 Fremont Pike (US 20) Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Cedar Creek STREAM: Dry Creek via unnamed tributary	4000	4000	1.5
** Subtotal **			517500	681500	248.9

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-14 BUILT: 1967	Chateau Estates 10430 Airport Hwy Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	36000	36000	13.1
PLANT: L-15 BUILT: 1961	Highway Patrol Post 10391 Airport Hwy., E of Turnpike Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	1500	1500	0.5
PLANT: L-16 BUILT: 1973	Monclova School (New) Monclova Road & Waterville-Monclova Rd Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	5000	5000	1.8
PLANT: L-17 BUILT: 1966	Monclova School (Old) 4526 Lose Rd. Lucas County, Monclova Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Swan Creek	8500	8500	3.1
PLANT: L-33 BUILT: 1970	Peaceful Acres Trailer Park 13555 Waterville-Neapolis Rd. Lucas County, Providence Twp.	WTRSHED NO: 038 SUB-BASIN: Swan Creek STREAM: Blue Creek	12500	12500	4.6
PLANT: L-37 2PH00014*CD BUILT: 1970	Oak Terrace 329 Oak Terrace Blvd. (off Angola at Irwin) Lucas County, Spencer Twp.	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt, Wolf Cr.	100000	100000	36.5
PLANT: L-40 BUILT: 1969	Burroughs Corporation 7300 Airport Highway (W. of Holloway Rd) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	4000	4000	1.5
PLANT: L-43 BUILT: 1988	Elizabeth Scott Nursing Home 2720 Albon Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan/Wolf Cr STREAM: Stone Ditch	15500	11000	4.0
PLANT: L-45 BUILT: 1984, 1958	Glengary Country Club SE cor Hill & Crissey Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Dt. (effl sprayed->golf)	9000	9000	3.3
PLANT: L-47 BUILT: 1968	Holland Amoco (Station #00648) Airport Highway (SR 2) at I-475, SW corner Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	2000	2000	0.7
PLANT: L-48 BUILT: 1962	Holland Shopping Center 6835 Angola Rd. @ SW cor. Clarion & Angola. Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	5000	5000	1.8

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-50 BUILT: 1972	Monclova Care Center 9831 Garden Road, 2000 ft E. of Eber Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	8000	8000	2.9
PLANT: L-51 BUILT: 1969	Neville Funeral Home 7438 Airport Highway Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	8000	8000	2.9
PLANT: L-53 2PH00013*CD BUILT: 1970	Oak Openings Industrial Park 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Kujowski Ditch	180000	110000	40.2
PLANT: L-102 2I000003*AD BUILT: 1957	Ohio National Guard Toledo Express Airport Lucas County, Springfield Twp.	WTRSHED NO: 042 SUB-BASIN: Swan Creek STREAM: Zaleski Ditch	28500	28500	10.4
PLANT: L-56 BUILT:	Springfield Saloon 904 Clark St. at Angola Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	6000	6000	2.2
PLANT: L-58 BUILT: 1971	Stairs Apts. 750 S. McCord Road (1000 ft N. of Angola Rd) Lucas County, Springfield Twp.	WTRSHED NO: 011 SUB-BASIN: Swan Creek STREAM: Good Ditch	18000	18000	6.6
PLANT: L-57 BUILT: 1968	Sun Oil Company 6405 Airport Highway (at I-475) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	1500	1500	0.5
PLANT: L-59 BUILT: 1972	Villa West 10005 Garden Road Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	15000	15000	5.5
PLANT: L-60 S702*BD BUILT: 1969	Woodside Terrace Trailer Park 7717 Angola Rd Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek via tributary from north	80000	80000	29.2
PLANT: L-61 BUILT: 1979	Arrowhead Trailer Park 5402 Jerome Road, W. side SR 295, S. of Turnpike Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Wiregrass Ditch	35500	35500	13.0
PLANT: L-62 2PP00003*CD BUILT: 1961 or earlier	Oak Openings - Fallen Timbers Service Plaza Turnpike near Shaffer Road Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan/Wolf Cr STREAM: Murback Ditch->Prairie Ditch->AI Cr	150000	110000	40.2

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for SWAN CREEK					
PLANT: L-63 BUILT:	Ohio Gas Co. Airport Highway Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	2000	2000	0.7
PLANT: L-64 BUILT: 1951	Swanton School Airport Highway E. of US 20A (Maumee-Western Road) Lucas County, Swanton Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Gale Run	6000	6000	1.6
PLANT: L-65 BUILT: 1963	Valleywood Golf Club 13501 Airport Hwy. @ NW cor Scott & SR 2 Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	12500	12500	4.6
PLANT: L-97 BUILT: 1975 (additions)	Sisters of Notre Dame (AKA Lial Convent) 5900 Davis Road, bet. Obee & Weckerly Rds. Lucas County, Waterville Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Swan Creek via Lake Lial	17500	17500	6.4
PLANT: L-98 2PB00066*AD BUILT: 1988	Toledo House of Correction 7846 Schadel Road, 43571 Lucas County, Waterville Twp.	WTRSHED NO: 040 SUB-BASIN: Swan Creek STREAM: Blue Creek	40000	40000	14.6
** Subtotal **			807500	693000	252.6

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-35 BUILT:	Corbett Gentry (Private Residence) 3917 Richfield Center Rd. Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1500	1500	0.5
PLANT: L-36 BUILT:	Richfield Center Market 3902 Washburn Lucas County, Richfield Twp.	WTRSHED NO: 001 SUB-BASIN: STREAM:	1000	1000	0.4
PLANT: L-38 BUILT: 1963	Spencer-Sharples School Unknown Lucas County, Spencer Twp.	WTRSHED NO: 001 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	15000	0	0.0
PLANT: L-39 BUILT: 1960, 1974	Bancroft Trailer Park 6951 Bancroft, Toledo OH 43615 (bet. McCord & King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Haefner Ditch	6000	6000	2.2
PLANT: L-41 BUILT: 1967	Crissey Elementary School #1 Geiser Road (NW corner Crissey & Geiser Roads) Lucas County, Springfield Twp.	WTRSHED NO: 001 SUB-BASIN: Swan Creek STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	6000	6000	1.6
PLANT: L-42 BUILT: 1974	Dorr St. Elementary School Dorr and King Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	13000	13000	4.7
PLANT: L-46 BUILT: 1966, 1975	Hidden Lake 7777 W. Bancroft Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	7200	7200	2.6
PLANT: L-49 H 704 *AD BUILT: 1971 or before	Lincoln Green Subdivision 6520 Burnham Green Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink/Heldman Ditch	168000	160000	58.4
PLANT: L-52 BUILT: 1970	Oak Grove Mobile Court 1839 McCord Rd, N. of NW cor. of intersection w/ D Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Haeffner Ditch	8500	8500	3.1
PLANT: L-54 BUILT: 1970	Royal Vilage Mobile Home Park 7519 Dorr St. (betw. Dorr & Nebraska) Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Heldman/Zink Ditch	40000	40000	14.6
PLANT: L-44 BUILT: 1971	Twin Hills Apts. (form. 4S+2) 6653 Dorcas @ SW cor. of Dorcas & Hill Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink Ditch	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-67 BUILT: 1969	Arbor Hills Jr. High (Sylvania Middle School) 5334 Whiteford Rd @ SE cor. Whiteford & McGregor Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via tributary	18000	18000	6.6
PLANT: L-69 BUILT: 1971, 1974	Briarfield Rest Home 5757 Whiteford Road (N of Alexis) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	15000	15000	5.5
PLANT: L-71 Y700*CD BUILT: 1980 (expansion)	Centennial Manor 3230 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	30000	30000	11.0
PLANT: L-72 BUILT: 1959	Central Avenue Elementary School 7460 W. Central Ave. at NE cor. Centennial Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-73 BUILT: 1963	Central Mobile Village Trailer Park 7924 W Central Ave. (E. of Centennial Rd) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	12500	12500	4.6
PLANT: L-76 BUILT: 1974	Courts of Sylvania Centennial Rd. at Little Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek -> tile field	2000	2000	0.7
PLANT: L-77 BUILT:	Design for Living 7640 W. Bancroft St. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-78 BUILT: 1971	Franklin Park Cinemas 5235 Monroe St., 0.5 mi. W of Talmadge Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tifft Ditch via storm sewer	12000	12000	4.4
PLANT: L-79 BUILT: 1971	Garden Court South Apartments 5522 Alexis Rd @ SW cor. of Alexis & Rudyard Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	3000	3000	1.1
PLANT: L-80 BUILT: 1969	General Telephone 3126 McCord Road at Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 202 SUB-BASIN: Swan Creek STREAM: Hill Ditch	1500	1500	0.5
PLANT: L-81 BUILT: 1973	Golden Garden Tavern & Restaurant 8256 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-83 BUILT: 1967	Home Cafe 5102 W. Alexis Rd (at Whiteford Rd.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	3500	3500	1.3
PLANT: L-85 BUILT: 1970	Oak Tree (Shopping Center) 4024 N. Holland-Sylvania Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8500	8500	3.1
PLANT: L-86 2IS00008*ED BUILT: 1964	Reichert Stamping 8200 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9
PLANT: L-87 2IQ00002 BUILT: 1970	Robintech 3610 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-88 BUILT: 1973	Second Honeymoon (Motel) 8613 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek	7000	7000	2.6
PLANT: L-82 BUILT: 1966	Shed, The 5365 Monroe St (at Sadalia Road) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via Monroe St. storm	2500	2500	0.9
PLANT: L-90-B BUILT: 1969 (Phase I)	Swiss Aire Chalet Condominiums, Middle plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-90-A BUILT: 1968 (Phase III)	Swiss Aire Chalet Condominiums, North Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	12000	12000	4.4
PLANT: L-90-C BUILT: 1967 (Phase II)	Swiss Aire Chalet Condominiums, South Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-92 BUILT: 1977 (filters)	Toledo Concrete Pipe Company 3756 Centennial Road, (S. of Sylvania Ave.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-70 BUILT: 1973, 1981	Ventura's Restaurant 7742 W. Bancroft, (west of Hesyler) Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: STREAM: Haeffer Ditch via	7000	7000	2.6

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for OTTAWA RIVER					
PLANT: L-94 BUILT:	Wayside General Store 7702 W. Bancroft Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-95 BUILT: 1966	Whiteford Elementary School 4708 Whiteford Rd Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	10000	10000	3.7
PLANT: L-104 BUILT: 1960	Mill Mfg. Co. 4511 South St. Lucas County	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Ottawa River via storm sewer	1500	1500	0.5
PLANT: L-112 BUILT: 1970	Netterfield's Fish & Chips N side Monroe just E of Laskey Lucas County	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tifft Ditch?	6000	0	0.0
** Subtotal **			465700	436700	159.0

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: L-1 BUILT: 1964	Anchor Point Marina (Condo Marine Properties) off Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie, via boat lagoon	10000	10000	3.7
PLANT: L-2 BUILT:	Butch and Denny's Bait and Sporting Goods Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-3 BUILT: 1969	Cooley Canal Yacht Club Bono Rd. - South Side, North of SR 2 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	4000	4000	1.5
PLANT: L-4 BUILT: 1974	Country Inn 10711 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-6 BUILT:	Flying Bridge Restaurant Anchor Point, N. side Corduroy Rd., E. of Teachout Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
PLANT: L-7 BUILT:	Gulish Villa 7802 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie via Anderson Ditch via SR	7000	7000	2.6
PLANT: L-8 BUILT: 1967	Jack's Cardinal Supermarket SE Cor. Howard Rd. & Rachel Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1000	1000	0.4
PLANT: L-9 BUILT: 1962	Lakemont Landing N. end Coolie Rd., Reno Plat 4, lot 1581 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	6000	6000	1.1
PLANT: L-10 BUILT: 1967 (expansion)	Our Lady of Mt. Carmel E. Side of Elliston Rd., N. of Veler Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	4000	4000	1.5
PLANT: L-11 BUILT:	Professional Mechanical Service 406 N. Howard Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
PLANT: L-12 BUILT: 1965	Wolf Creek Sportsman's Association 349 Teachout Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: O-2 BUILT: 1958	Allen Park Mobile Court Reservation Line Road Ottawa County, Allen Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Cedar Creek	5000	11700	4.3
PLANT: O-5 OH 0003425 BUILT: 1967	Guardian Industries NW cor Martin-Moline Rd. at SR 51 Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Little Crane Creek	2000	2750	1.0
PLANT: O-4 BUILT: 1972, 1983	Luther Home of Mercy Corner of Williston and Main St. Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	32500	32500	11.9
PLANT: O-7 BUILT: 1975	Wayside Inn NE cor SR 579 at SR 2 (& Graytown Rd) Ottawa County, Benton Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek via tributary	3500	3500	1.3
PLANT: W-94 BUILT: 1986	795 Fuel Stop (Total Oil & Arxon Motel) I-280 @ SR 795 3510 Moline-Martin Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	12000	12000	4.4
PLANT: W-17 BUILT:	Berman's Supper Club/Christmas Shop 5104 Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	12000	12000	4.4
PLANT: W-27 BUILT:	Lusher Trailer Court E. Broadway @ Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek	2000	2000	0.7
PLANT: W-28 BUILT: 1967	Metcalf Airport Airport Rd (N of NW cor. SR 795 & I-280) Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5
PLANT: W-33 BUILT: 1982	Rudolph/Libbe Inc. 6494 Latcha Road Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	1500	1500	0.5
PLANT: W-91 BUILT: 1960	Sohio I-280 @ SR 795 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	1500	0	0.0
PLANT: W-36 BUILT: 1966	Total Oil Station SR 795 @ I-280, 3510 Martin-Moline Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5

PACKAGE SEWAGE TREATMENT PLANTS
In the Maumee RAP Area

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** Basin Totals for LAKE ERIE					
PLANT: W-40 BUILT: 1974	Wagoner Apartments 6817 Fremont Pike: US 20, SE of Tracy Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek via storm sewer	5000	5000	1.8
PLANT: W-87-N BUILT: 1958	Wood-Lake Trailer Park NE cor. of Cummings Road crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	15000	15000	5.5
PLANT: W-87-S BUILT: 1965	Wood-Lake Trailer Park NE cor. of Cummings Rd crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	9000	9000	3.3
PLANT: W-54 BUILT:	Bayer Trailer Park US 20, E. of Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek or Grassy Creek	12500	12500	4.6
PLANT: W-56 BUILT:	Five Points Trailer Park 24370 Route 199 @ SE cor int Five Pts/Dunbrdg Rd Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: STREAM:	7000	7000	2.6
PLANT: W-59 BUILT: 1948	Lime City School US 20 & Lime City Road Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1840	0	0.0
PLANT: W-61 BUILT:	Perrysburg Estates MHP, SS #5 Lime City Rd, N of Reitz Rd. - 23720 Lime City Rd Wood County, Perrysburg Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Ditch	25000	25000	9.1
PLANT: W-60 BUILT:	Perrysburg Township Police & Ambulance Building 26609 Lime City Road, N. of US 20 Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1500	1500	0.5
PLANT: W-97 BUILT: 1966	Leisure Village Mobile Home Park N side Fremont Pike (US 20) @ Lemoyne Rd Wood County, Troy Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	4000	4000	1.5
** Subtotal **			200840	204950	73.8
*** Total ***			1991540	2016150	734.2

APPENDIX E

Publicly-Owned Treatment Works in the RAP Area

APPENDIX E
PUBLICLY-OPERATED TREATMENT WORKS IN THE RAP AREA

SOURCE: TMACOG Arewide Water Quality Management Plan[21]

POTW NAME	COUNTY	OPERATED BY	CAPACITY, MGD	PRESENT TREATMENT FACILITIES
** TOTAL FOR COUNTY Lucas				
Bentbrook Farms Subdiv.	Lucas	Lucas County	0.1	0.1 Extended aeration
Fuller's Creek Subdiv.	Lucas	Lucas County	0.1	0.3 Extended aeration
Lincoln Green Subdiv.	Lucas	Lucas County	0.2	0.2 Extended aeration
Maumee River WWTP	Lucas	Lucas County	15.0	9.0 Contact Stab/step feed,aer dig., belt filt
Oak Openings Ind Park	Lucas	Lucas County	0.2	0.0 Extended aeration
Oak Terrace	Lucas	Lucas County	0.1	0.1 Extended aeration, filt, CL2
Oregon South Shore Park	Lucas	Oregon	0.2	0.5 Contact Stabilization
Oregon WWTP	Lucas	Oregon	8.0	4.3 Activated Sludge, phos.
Toledo Bay View WWTP	Lucas	Toledo	102.0	91.2 Act Sludge, anaer dig., phos., belt filt press
Whitehouse WWTP	Lucas	Whitehouse	0.3	0.3 Extended aeration
** Subtotal **				
			126.1	105.9
** TOTAL FOR COUNTY Wood				
Haskins WWTP	Wood		0.1	0.1 Extended aeration, filters, drying beds
Perrysburg WWTP	Wood		2.8	3.0 Act Sldg, pre-aer, phos, anaer digest, vac dry beds
** Subtotal **				
			2.9	3.1
*** Total ***				
			129.0	109.0

APPENDIX F

Publicly-Owned Treatment Works Effluent Data

APPENDIX F
POTW 1986 EFFLUENT DATA

SOURCE: Ohio EPA NPDES effluent data

LUCAS COUNTY

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
FULLER'S CREEKSIDE ESTATES	2PW00000*AD	OH0053732											
January, 1986			.279	10.0	12.5								
February			.463	13.0	12.3								
March			.454	13.3	10.7								
April			.300	12.8	15.2								
May			.299	9.5	14.5								
June			.268	5.7	7.0								
July			.116	7.0	9.5								
August			.095	9.5	11.0								
September			.135	8.8	16.5								
October			.216	37.4	34.0								
November			.201	22.7	17.3								
December			.371	21.3	11.7								
Annual Average			.266	14.2	14.3								
Effluent Limits, 30-day Average				30.0	30.0								
MAUMEE RIVER WWTP	2PK00000*DD	OH0034223											
January, 1986			7.653	8.3	15.4	.6	.1	13.0	.9	6.1	115.2		15.6
February			12.264	9.7	19.6	.6	.1	10.5	.8	7.8	81.6		14.8
March			13.749	16.3	25.1	2.5	.3	9.8	.9	8.4	121.5		16.9
April			9.853	15.1	22.0	1.9	.5	9.0	.9	10.0	94.9		17.6
May			7.178	12.2	11.6	.6	.1	11.2	.8	5.5	91.4		17.8
June			9.450	6.1	12.5	.5	.0	9.3	.8	4.5	128.1		20.5
July			6.893	5.6	12.9	.2	.0	12.5	.9	3.6	264.5		20.3
August			6.657	5.5	8.4	.6	.1	13.1	.7	3.8	98.8		18.4
September			7.152	7.5	11.7	.9	.1	9.5	.8	4.0	90.1		29.3
October			10.268	6.5	14.9	.3	.0	9.6	.8	4.5	80.9		17.6
November			7.478	7.8	13.8	.8	.0	11.7	.8	5.4	112.6		19.7
December			9.557	10.5	14.7	2.6	.1	7.4	.9	6.2	94.1		15.5
Annual Average			9.013	9.3	15.2	1.0	.1	10.6	.8	5.8	114.5		18.7
Effluent Limits, 30-day Average				30.0	30.0				1.0				
OREGON DUPONT RD WWTP	2PD00035*ED	OH0052914											
January, 1986			3.533	6.5	12.4	.4	.0	9.4	1.0	2.4	143.4		2.8
February			5.710	8.0	17.8	.2	.0	7.6	1.0	2.8	43.6		3.0
March			5.949	8.8	15.5	.2	.0	7.4	.9	3.4	3.1		1.9
April			3.922	6.4	10.8	.3	.0	9.5	1.0	2.0	14.6		.5
May			3.913	7.2	15.9	.2	.0	10.5	.9	2.1	34.3		3.3
June													
July			3.448	4.4	5.4	.3	.0	11.0	.9	1.9	98.4		3.3
August			3.104	3.9	7.9	.5	.1	6.7	1.0	1.4			
September			3.347	5.1	8.1	.3	.0	8.8	1.0	1.3	8.5		4.3
October			5.219	5.8	10.2	.2	.0	9.3	1.0	1.7	16.6		4.8
November			3.821	3.9	11.1	.2	.0	12.8	.9	1.7	57.1		3.8
December			5.423	8.6	17.6	.2	.0	8.3	1.0	3.6	50.3		3.8
Annual Average			4.308	6.2	12.1	.3	.0	9.2	.9	2.2	47.0		3.1
Effluent Limits, 30-day Average				20.0	20.0				1.0				

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
OREGON SOUTHSHORE	2PB00007*CD	OH0052591											
January, 1986			.343	12.8	24.2	10.2	.3	.8	1.8				
February			.655	23.8	22.3	1.2	3.3	2.2	.1				
March			.705	30.9	32.1	2.5	.0	2.0	1.1				
April			.560	45.9	29.8	3.9	.1	1.8	1.6				
May			.525	39.5	48.5	4.0	.0	.9	.9				
June													
July			.382	41.1	27.9	5.1	.1	.6	1.3	23.6			
August			.296	13.1	11.1	6.2	.2	.5	1.6	8.8			
September			.306	47.8	22.3	1.2	.1	.8	8.8	7.3			
October			.585	43.1	26.8	4.9	.0	.4	.8	30.0			
November			.391	66.9	43.4	10.8	.0	.2	2.7	46.4			
December			.664	32.0	37.1	1.2	.0	2.5	1.9	24.4			
Annual Average			.492	36.1	29.6	4.7	.4	1.2	2.0	23.4			
Effluent Limits, 30-day Average				20.0	25.0								
TOLEDO BAY VIEW WWTP	2PF00000*GD	OH0027740											
January, 1986			67.744	36.4	35.5	19.5	.3	1.9	1.4	18.2	1891.1		6.8
February			114.861	18.8	37.6	9.3	.5	1.3	1.0	13.9	1217.8		6.4
March			126.458	17.7	25.2	7.7	.5	1.5	.8	14.8	1117.3		29.9
April			85.022	17.8	24.9	10.5	.3	1.9	.7	13.6	734.3		29.8
May			87.999	19.9	34.8	11.5	.2	2.5	1.0	13.9	517.3		29.4
June			110.340	9.5	39.3	7.9	.3	1.4	1.0	5.8	598.5		30.4
July			81.420	28.0	50.8	9.7	.2	1.5	1.7	8.6	554.8		31.0
August			73.554	16.6	35.9	11.0	.2	2.3	1.0	6.0	895.2		26.0
September			76.705	24.9	75.8	11.7	.1	1.4	1.4	10.4	439.1		27.0
October			102.152	12.1	54.7	9.4	.2	2.2	.8	5.3	521.9		31.1
November			74.819	15.3	53.8	17.5	.2	2.2	1.3	8.8	539.3		26.0
December			92.774	19.6	61.0	10.1	.3	2.2	1.5	11.9	553.5		24.8
Annual Average			91.154	19.7	44.1	11.3	.3	1.9	1.1	10.9	798.3		24.9
Effluent Limits, 30-day Average				40.0	60.0				1.0				
WHITEHOUSE *	2PB00062*CD	OH0053350											
January, 1986			.285	31.4	33.8								
February			.365	14.3	16.3								
March													
April													
May			.289	20.0	19.1	10.0	.0	.1	36.0	21.5			
June			.345	9.8	15.8	18.0	3.7	.5	1.6	17.3	.1		.7
July			.310	7.2	19.4	5.0	1.1	4.1	3.9	9.3	.1		.4
August			.300	9.5	13.3	*4*	*4*	*4*	*4*	20.8	.0		
September			.297	18.6	22.6	6.5	.9	.3	1.0	16.7	.0		.1
October			.377	18.3	33.3	.4	54.0	4.0	1.0	19.7	.0		.7
November			.303	21.0	33.3	.0	.1	6.9	.8	20.1	.1		.4
December			.365	13.0	17.3	1.5	.5	16.0	.6	15.1	.0		.6
Annual Average			.324	16.3	22.4	5.9	8.6	4.6	6.4	17.6	.0		.5
Effluent Limits, 30-day Average (Interim)				30.0	30.0								

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
LINCOLN GREEN	2PH00004*AD	OH0053520											
January, 1986			.106	3.3	5.5								
February			.176	16.3	29.5								
March			.262	13.0	5.7								
April			.148	4.6	5.8								
May			.159	9.5	4.5								
June			.172	15.0	13.3								
July			.107	5.3	4.0								
August			.133	4.3	3.0								
September			.161	7.8	16.0								
October			.284	20.0	13.4								
November			.108	64.7	83.0								
December			.160	83.7	60.7								
Annual Average			.165	20.6	20.4								
Effluent Limits, 30-day Average													
OAK OPENINGS	2PH00013*AD	OH0058483											
January, 1986													
February													
March													
April													
May			.078	21.0	14.5	8.4				20.2			
June			.141	10.3	13.7	.1				7.3			
July			.088	41.3	50.0	14.2				38.4			
August			.108	20.8	33.5	7.8				12.0			
September			.081	34.8	43.0	5.3				31.9			
October			.131	6.8	13.4	.4				5.9			
November			.150	14.0	20.7	11.6				11.4			
December			.133	30.7	31.0	28.1				22.1			
Annual Average			.114	22.4	27.5	9.5				18.7			
Effluent Limits, 30-day Average													
OAK TERRACE	2PH00014*AD	OH0058912											
January, 1986			.059	4.3	4.0	.1				3.3			
February			.069	5.5	6.8	.1				4.2			
March			.080	2.0	1.7	.2				1.4			
April			.084	3.6	5.0	.2				3.3			
May			.050	3.5	3.5	.1				3.2			
June			.097	2.0	2.7	.1				1.5			
July			.134	2.8	3.3	.2				2.4			
August			.139	2.3	1.5	.1				2.2			
September			.133	5.3	8.5	.3				4.6			
October			.158	3.0	1.6	.3				2.2			
November			.107	22.7	39.3	5.8				17.9			
December			.110	6.7	18.7	.4				6.2			
Annual Average			.102	5.3	8.0	.6				4.4			
Effluent Limits, 30-day Average													

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
SYLVAN WOODS **	2PG00000*BD	OH0054089											
January, 1986			.189	46.0	33.0								
February			.164	6.5	764.0								
March			.154	28.7	18.3								
April			.096	67.0	66.0								
May													
June													
July													
August													
September													
October													
November													
December													
Annual Average			.151	37.0	220.3								
Effluent Limits, 30-day Average													
COREY MEADOWS **	2PG00001*BD	OH0053741											
January, 1986			.041	8.5	8.8								
February			.061	3.0	1.5								
March			.076	2.0	3.7								
April			.078	10.8	13.4								
May			.053	8.0	11.0								
June			.096	1.7	4.7								
July			.078	12.5	15.8								
August			.080	6.9	62.6								
September													
October													
November													
December													
Annual Average			.070	6.7	15.2								
Effluent Limits, 30-day Average													
BENTBROOK FARMS	2PG00002*AD	OH0053759											
January, 1986			.080	41.5	32.5								
February			.100	12.8	13.3								
March			.134	16.3	9.7								
April			.157	42.6	52.6								
May			.108	69.0	78.0								
June			.125	143.3	158.7								
July			.087	78.8	129.3								
August			.075	372.5	337.5								
September			.100	110.3	79.8								
October			.136	76.4	41.8								
November			.143	54.3	20.7								
December			.144	92.7	169.3								
Annual Average			.116	92.5	93.6								
Effluent Limits, 30-day Average													

* Plant is scheduled to be abandoned in 1988.
** Plant now out of service; this area has been tapped into the Lucas County sanitary sewer.

WOOD COUNTY

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
HASKINS	2PA00026*CD	OH0021873											
January, 1986			.061	5.5	6.3	.4				4.0		.0	.7
February			.073	6.5	6.5	.1				4.0		.0	.1
March			.062	6.3	8.0	.6				6.5		2200.0	.8
April			.067	9.8	2.5	1.2				7.5		.0	.8
May			.052	8.4	5.8	1.0				3.4		7000.0	.9
June			.058	6.5	6.5	1.5				4.5		5000.0	.9
July			.056	7.7	7.0	.7				4.7		12500.0	.8
August			.054	7.3	4.0	.6				1.5		5000.0	.9
September			.061	8.0	2.5	2.4				3.5		3000.0	.8
October			.065	8.8	6.8	1.2				5.6		1500.0	.1
November			.056	10.3	4.8	1.3				8.5		2000.0	.8
December			.064	8.3	7.3	1.0				7.0		2000.0	.1
Annual Average			.061	7.8	5.7	1.0				5.1		3350.0	.6
Effluent Limits, 30-day Average				10.0	12.0								
LUCKEY ***	2PA00080*BD												
Effluent Limits, 30-day Average					65.0					25.0			
PERRYSBURG	2PD00002*CD	OH0021008											
January, 1986			2.423	9.5	43.5	11.8		*4*	.5		11.7		4.5
February			3.190	38.3	80.3	5.8		1.9	1.3		2.8		5.5
March			3.556	15.4	26.6	7.4		1.6	.6		10.5		5.5
April			3.186	17.0	45.0	8.7		.3	.9		13.7		2.9
May			2.598	35.0	64.1	12.2		.4	2.1		12.1		3.9
June			3.351	6.9	17.7	8.8		.4	1.4		18.4		4.0
July			2.856	23.7	46.4	13.2		.4	3.5		6.8		5.5
August			2.467	28.8	71.3	14.6		.4	3.4		7.8		4.2
September			2.484	28.3	49.7	15.0		.4	3.2		4.0		4.2
October			3.273	31.8	38.2	10.9		.4	1.0		16.8		3.3
November			2.896	36.8	65.3	15.5		.7	2.4		12.7		4.8
December			3.752	41.6	86.6	8.0		1.3	2.8		10.1		5.3
Annual Average			3.003	26.1	52.9	11.0		.8	1.9		10.6		4.5
Effluent Limits, 30-day Average				50.0	50.0				1.0				

*** Treatment plant completed and went into use in late 1987.

APPENDIX G

Ohio EPA *Biological Water Quality Study of the Lower Maumee River Mainstem*
Technical Support Document (TSD)

Biological and Water Quality Study of the Lower Maumee River Mainstem and Major Tributaries - Wood and Lucas Counties, Ohio.

July 15, 1989

prepared by

Ohio Environmental Protection Agency
Division of Water Quality Monitoring and Assessment
Surface Water Section
1030 King Ave.
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This evaluation and report would not have been possible without the assistance of numerous full and part time staff in the field and the chemistry analyses provided by the Ohio EPA Water Quality Laboratory.

METHODS AND MATERIALS

All chemical, physical, and biological field, laboratory, data processing, and data analysis methods and procedures adhere to those specified in the Ohio EPA Manual of Surveillance Methods and Quality Assurance Practices (fifth update; Ohio EPA 1987a) and Biological Criteria for the Protection of Aquatic Life, vols. I-III (Ohio EPA 1987b, 1987c, 1988).

Attainment/non-attainment of aquatic life uses is determined by using the recently developed biological criteria (Ohio EPA 1987b, 1987c, 1988). The biological community performance measures that are used include the Index of Biotic Integrity (IBI) and the Modified Index of Well-Being (I_{wb}), both of which are based on fish community characteristics, and the Invertebrate Community Index (ICI) which is based on macroinvertebrate community characteristics. Performance expectations for the basic aquatic life uses (Warmwater Habitat, Exceptional Warmwater Habitat) and a proposed Modified Warmwater Habitat use were developed using the regional reference site approach (Hughes et al. 1986; Omernik 1988). This fits the practical definition of biological integrity as the biological performance of the natural habitats within a region (Karr and Dudley 1981).

An aquatic life use is fully attained if all three indices (or those available) meet the applicable criteria. Partial attainment is reached if one or more indices attain and at least one does not attain. A site is considered to be in non-attainment if all three indices (or those available) fail to meet the applicable criteria. This also applies if one of the two organism groups indicate poor or very poor performance, even if the other group is attaining the applicable criteria.

Biological and Water Quality Survey of the Lower Maumee River Mainstem and Major Tributaries (Wood and Lucas Counties, Ohio).

Ohio EPA, Division of Water Quality Monitoring & Assessment
Surface Water Section
100 King Ave.
Columbus, Ohio 43212

INTRODUCTION

The Lower Maumee River mainstem study area extended from upstream of Grand Rapids (RM 54.9) downstream to Maumee Bay (RM 0.0). Also included were the lower sections of Swan Creek (RM 10.2 - 0.5), Ottawa River (RM 18.5 - 1.6), Tenmile Creek (RM 5.1 - 1.0), Otter Creek (RM 7.2 - 0.3), and Duck Creek (RM 3.0 - 0.4). One site was located on Cedar Creek (RM 20.8) which is a direct Lake Erie tributary east of the study area.

Specific objectives of this evaluation were to:

1) characterize and quantify aquatic life use impairment and identify causes and sources whenever possible;

2) determine if existing aquatic life uses are appropriate; and,

3) discover and document previously unknown or under-rated problems.

It was not an objective of this effort to determine the rate or quantity of export of loadings of nutrients or toxic substances to Lake Erie. However, a knowledge of any localized impairments in the lower mainstem river and tributaries can provide insights on how these substances might be managed and controlled.

This survey represents the first effort by Ohio EPA to comprehensively document and quantify degradation in the lower Maumee River mainstem and major tributaries using the resident aquatic biota as a direct measure of aquatic life use attainment or non-attainment. The findings of this evaluation may factor into regulatory actions taken by Ohio EPA (e.g. NPDES permits) and may eventually be incorporated into the Ohio Water Quality Standards (WQS) regulations (OAC 3745-1), State water quality management plans and the next biennial 305(b) report.

CONCLUSIONS AND RECOMMENDATIONS

General

- Of the 57 sampling locations evaluated in the lower Maumee River study area 37 did not attain the Warmwater Habitat (WWH) use designation, 11 partially attained, and 9 fully attained. Of the 20 sampling locations that either partially or fully attained the WWH use, 16 were located on the Maumee River mainstem. WWH use attainment was the most consistent in the Maumee River mainstem between RM 13.6 (downstream from Perrysburg) and 54.9 (near Napoleon).

- Major causes and sources of WWH use non-attainment included: low dissolved oxygen (D.O.) and elevated ammonia-nitrogen (NH_3-N) from combined sewer overflow (CSO) and wastewater treatment plant (WWTP) discharges (Maumee R., Swan Creek, Ottawa R., Tenmile Creek); intermittent releases of toxic substances from industrial sources via CSOs (Swan Creek, Ottawa R.); heavy metals, low D.O and elevated NH_3-N from landfill leachate and industrial sources (Otter Creek, Duck Creek, Ottawa R., Tenmile Creek). Habitat modification is a factor in eventual use attainment in Otter Creek and Duck Creek, but it was not a major factor in the observed impairment.

- Seiche effects were observed to influence biological and chemical degradation in the Lake Erie influenced sections of the Maumee River mainstem and lower tributaries. Biological effects occurred both upstream and downstream from major sources such as the Toledo WWTP. In the tributaries seiches acted to concentrate pollutants at the upstream limits of the estuary effect, but also diluted poorer quality tributary water at the mouth of each. This latter phenomenon also occurred at the Maumee River mainstem/Maumee Bay interface where relatively cleaner Lake Erie water tended to mix with and dilute poorer quality Maumee River water.

- Arsenic was detected in concentrations above background levels at several locations in the mainstem and at very high levels in Otter Creek and Duck Creek This appears to indicate widespread contamination along the south shore of the mainstem and the general area behind it from Rossford to Oregon. The principal source is landfill leachate associated with glass making operations.

- Fish tissue results indicate elevated concentrations of total PCB (compared to upstream levels) in the lower 5 miles of the Maumee River mainstem, lower Swan Creek, Tenmile Creek (RM 4.1), and the lower 4 miles of the Ottawa River. Concentrations in whole body composite samples upstream from the general Toledo metropolitan area were less than 1.0 ppm. The highest concentrations of total PCB (12-25.4 ppm) were found in fish from the Ottawa River.

<u>Maumee River</u>

- The WWH use was either fully or partially attained between RM 54.9 to RM 13.6, with the exception of one location in the Grand Rapids dam pool. Thirteen (13) of the 16 locations downstream from RM 9.4 did not attain the interim Lake Erie river mouth criteria; the remaining 3 sites partially or fully attained these criteria. The severity of the non-attainment increased downstream from the Swan Creek confluence (RM 5.2) and was worse along the north shore. This shore is impacted by Swan Creek (CSO, industrial releases), CSOs, and the Toledo WWTP. The results of this survey indicate that the existing WWH use is appropriate.

- Biological degradation as measured by the Index of Biotic Integrity (IBI) and the modified Index of Well-Being (I_{wb}) was typical of a response to the discharge of oxygen demanding wastes when the results were plotted in terms of linear distance from the Toledo WWTP outfall. D.O. and NH_3-N results indicated this same phenomenon, but to a lesser degree than the biological results.

- Concentrations of heavy metals in the sediments and total PCB in fish tissue reached their highest levels in the lower 5-6 miles of the mainstem reflecting inputs from a variety of urban, industrial, and municipal sources, as well as the concentrating effect of seiches.

Swan Creek

- The existing WWH use was impaireo upstream from the general area impacted by CSO discharges. The overall biological performance was fair and typified impacts associated with siltation and nutrient enrichment associated with agricultural nonpoint sources.

- Use impairment increased in severity downstream into the area impacted by CSOs. Chemical water quality, bottom sediment, and biological community results all reflected a complex impact caused by oxygen demanding wastes from CSOs and toxic substances (i.e. creosote) from intermittent industrial releases via a CSO. The discharge of creosote may pose an additional threat to non-aquatic life uses due to the presence of numerous polynuclear aromatic hydrocarbon (PAH) derivitives. This contamination extends into the Maumee River mainstem.

Ottawa River/Tenmile Creek

- The existing WWH use was impaired at 2 of the 3 Tenmile Creek sampling locations (RM 5.1 - 1.0) with the downstream site achieving partial attainment. Overall biological performance was fair. Localized areas of macrohabitat modification were noted, but this alone does not preclude eventual attainment of the WWH use.

- Evidence of conventional organic enrichment in Tenmile Creek suggests inputs from sources upstream from RM 5.1. A discharge of "septic" wastewater was also noted at the RM 5.1 sampling location. Other sources of impact on Tenmile Creek include Reichart Stamping and the Kings Rd. landfill.

- The existing WWH use was impaired at all of the Ottawa River sampling locations (RM 17.8 - 1.6) with the severity increasing downstream from RM 11.0. Overall biological performance was poor or very poor in the lower sections with indications of a toxic impact in combination with very low D.O. levels. Several sources contribute to this degradation and include CSOs, runoff and spills from AMC Jeep, and leachate from the Stickney Ave. and Dura landfills. The possibility of previously unknown sources exists in the upper sections as evidenced by the presence of raw sewage. The degradation in the Ottawa River was pronounced in every media that was tested. This includes sediment contamination which consisted of elevated heavy metals and detectable concentrations of organics (mainly PAH compounds) and PCBs.

- The effects of previous habitat modifications and general urban encroachment was evident in the Ottawa River downstream from RM 9.8. Although QHEI scores were marginal ($\bar{X}$ = 53), instream cover and overall pool quality was good, thus the existing WWH use should be maintained.

Otter Creek/Duck Creek

- The existing WWH use was impaired at 2 of the 3 Duck Creek locations (RM 3.0 - 0.5) with one site (RM 0.5) achieving partial attainment. Overall performance was poor and was attributed to accumulated water treatment plant sludge that is contaminated with heavy metals, abandoned landfill leachate, and possibly the Toledo Edison - Acme EGS ash pond discharge. Some recovery was observed at the mouth and was attributed to dilution by relatively better quality Maumee River water.

- Otter Creek showed use impairment at all 5 sampling locations (RM 7.2 - 0.5). The overall biological performance was very poor at all sites and indicated acutely toxic conditions. Sources of the severe impairment include the abandoned LOF landfill, Sun Oil refinery, and the BP America refinery (the thermal discharge was diverted to Maumee Bay in 1987). The sediments were contaminated with heavy metals, a few organic chemical compounds, and oil. Water samples revealed a wide array of contamination with acutely toxic levels of arsenic and ammonia-N observed at the site immediately downstream from the LOF landfill. D.O. was near zero at several locations.

- Although no formal records of previous channel modifications could be obtained from local, county, or federal agencies, the existence of such was very obvious in the field. The effects of past channel modification are still prevalent in both Otter Creek and Duck Creek which results in poor or very poor habitat quality. The extent of the modifications is reflected in the mean QHEI scores for each creek (41 in Otter Cr.; 40 in Duck Cr.) which satisfies a key criteria for the eventual consideration of the proposed Modified Warmwater Habitat (MWH) or Limited Resource Waters (LRW) use designations. It is recommended that Otter Creek be redesignated LRW upstream from the LOF landfill and MWH between the landfill and the mouth. Duck Creek should be redesignated MWH from its headwaters to RM 0.5. The MWH designations are contingent upon the eventual adoption of the MWH use in the Ohio WQS.

STUDY AREA DESCRIPTION

Potential sources of impact to surface waters in the study area are numerous and include point source discharges of industrial and municipal wastewater, combined sewer overflows (CSO), landfill leachate, accidental spills and intermittent releases, and general encroachment on the riparian zone by various anthropogenic activities. The principal point source discharges to the lower Maumee River mainstem include the Toledo WWTP (RM 1.4), Libby-Owens-Ford (LOF Rossford, RM 6.9-8.3), Perrysburg WWTP (RM 14.5), Lucas Co.-Maumee WWTP (RM 18.2), Campbell Soup (RM 43.5-45.8), and the Napoleon WWTP (RM 45.9). Other discharges to major tributaries that were evaluated include Jennison-Wright (Swan Creek, RM 2.6), Reichart Stamping (Tenmile Creek, RM 5.1), Sun Oil (Otter Creek, RM 4.9-5.2), BP America (Otter Creek, RM 0.4), AMC Jeep (Ottawa R., RM 7.6-8.0), and Diversitech General (Ottawa R., RM 6.0). Several landfills that were evaluated include the LOF facility on Otter Creek (RM 6.4-6.6), Kings Rd. landfill (Tenmile Creek, RM 4.5), Stickney Ave. landfill (Ottawa R., RM 5.5-5.7), and the Dura landfill (Ottawa R., RM 5.1).

Several smaller landfills occur throughout the study area particularly along the Ottawa River and Duck Creek. More than 40 CSO discharge locations are listed for the study area and include approximately 25 for the lower Maumee River mainstem (RM 15.5-3.2), 11 on Swan Creek (RM 4.2-0.1), and 7 to the Ottawa River (RM 9.2-6.5). A more detailed description of the study area can be found elsewhere (Toledo Metropolitan Area Council of Governments 1988).

The lower sections of the Maumee River mainstem and tributaries are influenced by the level of Lake Erie and as such experience seiche activity and have base gradients. Such areas are commonly referred to as estuaries. The lower 7.2 miles of the mainstem is used extensively for commercial navigation and the center of the river is periodically dredged and maintained for that purpose by the U.S. Army Corps of Engineers. Dredged material has been disposed of both in a confined disposal area at the mouth of the mainstem and at an off-shore location in the open lake.

RESULTS AND DISCUSSION

The results, discussion, and attainment status summary is organized by principal stream or river as follows: lower Maumee River mainstem, Swan Creek, Ottawa River/Tenmile Creek, and Otter Creek/Duck Creek. Within each the physical habitat, chemical/physical water quality, bottom sediment chemistry, macroinvertebrate community, fish community, fish tissue, and overall aquatic life use attainment status are described.

LOWER MAUMEE RIVER MAINSTEM

The 1986 sampling effort included 14 chemical/physical water quality, 4 bottom sediment, 18 macroinvertebrate, 27 fish, and 4 fish tissue sites between Napoleon and Maumee Bay (RM 54.9-0.0).

Physical Habitat for Aquatic Life

- Between RM 54.9 and approximately RM 18 the Maumee River mainstem offers typical large river habitat. A dam at Grand Rapids results in a 7-8 mile long impoundment - the remaining distance is free flowing. Qualitative Habitat Evaluation Index (QHEI) scores ranged from 56 to 58 ($\bar{X}$ QHEI = 56.7) within the impoundment and 70-82 ($\bar{X}$ QHEI = 77.0) in the free-flowing sections. The latter scores indicate very good to exceptional habitat.

- In the vicinity of RM 16-17 the level of Lake Erie and attendant seiche activity begins to influence the riverine habitat resulting in a transition to estuary habitat. This type of habitat is characterized by slack flow, flow reversals, base gradients, a total pool morphology, and depths of 1-3 meters. Downstream from RM 7.2 and well into Maummee Bay a 8.5 m deep navigation channel is maintained in the center of the mainstem. However, this activity itself leaves the shoreline relatively undisturbed. Shoreline disturbances include sheet piling and rock rip-rap, but this is not continuous. QHEI scores ranged from 61 to 71 ($\bar{X}$ QHEI = 64.3) between RM 18 and 7.2 and 46 to 67 ($\bar{X}$ QHEI = 59) downstream in the navigation channel area. Compared to some other Lake Erie river mouth areas subject to navigation channel maintenance activities (e.g. Cuyahoga River) the lower Maumee River mainstem offers relatively good habitat.

- River flow measured at the USGS continuous flow gage at Waterville (RM 20.7) was higher than a range of critical low flows, but was below the historical average being less than 1000 cfs through most of the summer months (Fig. 2).

Chemical/Physical Water Quality (Tables 2-4; Figures 3-4)

- Water quality was relatively good upstream from RM 9.4. Downstream from the Swan Creek confluence (RM 5.2) levels of NH_3-N increased, D.O. generally declined, and exceedences of the water quality standard (WQS) for zinc were detected.

- Although WQS violations of the copper criteria were frequent between RM 32.6 and the mouth (RM 0.0), most were in the 15-30 ug/l range which does not constitute a serious threat to aquatic life use attainment. These levels probable represent background concentrations for the lower mainstem. The statewide copper criterion is currently under review by Ohio EPA.

- Surface and bottom samples were collected at each location downstream from RM 9.4. Surface NH_3-N concentrations were generally higher than bottom samples, but the differences were generally small (0.1-0.3 mg/l). Ammonia-N concentrations peaked immediately upstream and downstream from the Toledo WWTP (RM 1.4), and declined with distance away (both upstream and downstream) from this source. Concentrations downstream from the WWTP to the mouth remained elevated compared to samples from farther upstream, however.

- Surface and bottom D.O. concentrations also exhibited minimal differences with bottom D.O. usually higher. Violations of the 4 mg/l WQS were measured downstream from RM 4.9. Longitudinally, D.O. concentrations followed a general pattern similar to the "sag" typically observed in free-flowing rivers when the results were plotted against linear distance from the Toledo WWTP. Overall, D.O. declined to the lowest point upstream from the Toledo WWTP (RM 1.4) and downstream from Swan Creek (RM 5.2).

- Zinc concentrations exceeded the WWH WQS downstream from the Toledo WWTP (RM 1.4) reaching a maximum concentration of 170 ug/l on three occasions at RM 1.0 and 0.2.

- Arsenic was detected in measurable quantities between RM 20.7 and the mouth (RM 0.0). Concentrations were highest at RM 6.5 (23 ug/l), 4.9 (34 ug/l), and 3.3 (40 ug/l) downstream from a previously unknown discharge (maximum conc. = 38,500 ug/l) at Rossford. None of the instream values are WQS violations, but are much higher than background levels.

Bottom Sediment Chemistry (Tables 6 and 6a)

- Sediment concentrations of several heavy metals (chromium, lead, zinc) were classified as highly to extremely elevated (Kelly and Hite 1984) and moderately to heavily polluted (U.S. EPA great lakes harbors criteria) downstream from RM 9.4. In contrast concentrations in the Grand Rapids dam pool (RM 32.6) were non-elevated and non-polluted, respectively.

- Concentrations for each of the seven heavy metal parameters analyzed were highest at either RM 4.9 or 1.0 with the exception of arsenic which was highest at RM 9.4. With the exception of copper sediment concentrations for the remaining parameters were in the elevated to extremely elevated range and the moderately to heavily polluted ranges at these two locations.

- Analysis for organic chemical compounds revealed none above detection at RM 9.4, but several compounds were detected at RM 4.9. PAHs were the most frequently detected with phenanthrene and fluoranthene at 11.0 ppm. Concentrations of these and other compounds were reduced at RM 1.0.

Macroinvertebrates (Table 7; Figures 7-8)

- Water quality conditions as reflected by the macroinvertebrate community ranged from exceptional to fair in the mainstem upstream from the estuary section (RM 54.9-20.9). Invertebrate Community Index (ICI) values ranged from 26-54 and diverse assemblages of mayflies and caddisflies were present. Departures from the WWH ICI criteria in the Grand Rapids dam pool (RM 44.2 and 34.8) were attributed to a lack of consistent current due to the impoundment type habitat. ICI values of 26 and 28 probably represent the level of performance that can be expected in such habitats. No significant impairments due to water quality were noted in this segment. The slack water inhabiting caddisfly Cyrnellus fraternus was collected in relatively high numbers.

- Downstream from RM 15.0 the macroinvertbrate community changed in response to the influence of estuary type habitat. No formal or interim ICI criteria have been developed for these areas, therefore community performance was interpreted in narrative terms on a best professional judgement basis. ICI scores were useful, however, on a site comparison basis.

- Narrative evaluations were fair to marginally good downstream to RM 8.8 (ICI range = 14-24). Downstream from RM 7.3 the results were judged to represent marginally fair water quality, recovering slightly to fair at RM 0.7. ICI values ranged from 6-16 in this section.

- A comparison of samples collected from the north (river left looking downstream) and south shoreline of the river downstream from RM 15.0 revealed somewhat higher ICI scores from the south (right) shore. Mayflies and caddisflies were generally absent from the north shore locations. Conversely, mayflies and slack water inhabiting caddisflies were present at the south shore locations. Most of the CSOs, Swan Creek, and the Toledo WWTP discharge to and impact the north shoreline.

Fish Community (Tables 9-10; Figure 11)

- Electrofishing collections in the free-flowing sections of the mainstem generally resulted in Index of Biotic Integrity (IBI) and modified Index of Well-Being (I_{wb}) scores that marginally attained the WWH criteria. An exception was the two sites (RM 33.0 and 38.5) in the Grand Rapids dam pool where the impoundment type habitat was a factor and precluded full WWH attainment.

- Downstream from RM 13.7 the fish community reflected fair to poor condition with the poor ratings being most frequent downstream from RM 1.5. Modified I_{wb} values ranged from 6.3-7.1 between RM 3.3 and 13.7 and 4.4-6.7 downstream from RM 1.5. All modified I_{wb} and IBI values (except IBI = 29 at RM 0.4) downstream from RM 13.6 failed to attain the interim criteria for Lake Erie river mouth and harbor areas.

- IBI and modified I_{wb} results were plotted against linear distance away from the Toledo WWTP dishcarge (Fig. 10). The resultant longitudinal profile resembles that commonly observed in free-flowing rivers where the index pattern closely follows the classic D.O. "sag" curve.

- The frequency of external anomalies (deformities, eroded fins, lesions, tumors) was elevated downstream from RM 9.4. Two of the highest rates occurred downstream from Swan Creek (2.7%) and in the Toledo Edison - Bayshore EGS thermal mixing zone (4.7%). Frequencies above 1% were not uncommon elsewhere in this section. These results are typical for areas impacted by CSOs and WWTP discharges. A unique aspect of the Toledo Edison - Bayshore EGS mixing zone location is that the discharge contains Toledo WWTP effluent and chlorine (used as a biocide) is added to the effluent.

Fish Tissue Results (Table 11)

- Total PCB data from 21 fish tissue samples collected from the lower Maumee River mainstem between RM 20.6 to the mouth (RM 0.0) were reviewed. All except one channel catfish sample from RM 0.0 were analyzed as whole body composites. Nine different species comprised these samples with carp being the most frequently tested species.

- All samples analyzed at RM 20.6 had less than 1.0 ppm total PCB (range = 0.2-1.0).

- Total PCB concentrations ranged from 2.1 ppm (1979 yellow perch, RM 0.0) to 11.5 ppm (1982 carp, RM 0.0). Most values were in the 3-6 ppm range.

Aquatic Life Use Attainment Summary (Table 12)

- General attainment of the WWH use designation in the free-flowing section of the lower Maumee River mainstem (RM 54.9-17.2) was full (5 of 9 locations) or partial (3 of 9 locations), with only one site (RM 33.0/34.8) not attaining. This site was located at the downstream end of the Grand Rapids dam pool and habitat alone was the precluding factor. Two of the partial attainment locations were due to IBI scores that fell just outside of the non-significant departure range. The remaining partial attainment site was the upstream most Grand Rapids dam pool site (RM 38.5) where impoundment type habitat was the principal factor. The number of IBI and modified I_{wb} scores that fell into the non-significant departure range may be indicative of more subtle impacts from general nonpoint sources which predominate in the Maumee River watershed. Given the good to excellent habitat quality the general performance of the fish community should have been better. The macroinvertebrate community was generally reflective of very good water quality which may further support the notion of a silt/sediment type of impact on the fish community.

- General attainment of the interim Lake Erie river mouth criteria was either full or partial between RM 15.0 and RM 13.6. Downstream from RM 9.4 thirteen (13) of 17 sites were not attaining these criteria. The relative magnitude of the non-attainment increased downstream from RM 4.7.

- The major sources responsible f the impairment of aquatic life uses in the lower mainstem Maumee River are the Toledo WWTP, CSO discharges to the mainstem and via Swan Creek, and possibly the LOF-Rossford landfill discharge. The biological impairment observed was generally correlated with elevated concentrations of NH_3-N, zinc, and low D.O. Some correlation with the extent and severity of bottom sediment contamination was also noted.

SWAN CREEK

Swan Creek was sampled between RM 10.2 and 0.5 for chemical/physical water quality (6 locations), bottom sediment chemistry (1 location), macroinvertebrates (6 locations), and fish (8 locations) during 1986. In addition the results of fish sampling at RM 21.2 in 1984 was also considered.

Physical Habitat for Aquatic Life

- The lower 3 miles of Swan Creek are influenced by the level of Lake Erie and the RM 4.4 location is impounded by a small roller dam. The RM 10.2 location was free-flowing and had good pool-run-riffle habitat.

- QHEI values ranged from 55-62 ($\bar{X}$ QHEI = 57.8) at RM 0.5-4.4 reflecting the impoundment type and estuary habitat characteristics. A QHEI of 70 at RM 10.2 reflected very good stream habitat.

Chemical/Physical Water Quality (Tables 2-4; Figure 5)

- Chemical water quality was generally good at RM 10.2 and 4.9 with only minor WQS violations for copper and phenolics which occurred following rainfall events. Some nutrient enrichment was evident at both sites with elevated nitrate-N (NO_3-N) at RM 10.2 and elevated NH_3-N at RM 4.9. The influence of general urban runoff was evident in detectable concentrations of lead, zinc, and oil and grease at RM 4.9.

- Degradation of chemical water quality becomes more evident at RM 3.9 within the general area affected by CSO discharges (RM 4.2-0.1). Ammonia-N reached its highest concentration at RM 3.9 and D.O. values were lowest at RM 2.6, 1.2, and 0.5. The NH_3-N values were highest (max.= 2.35 mg/l) following rainfall events and were at or below detection (0.05 mg/l) during dry weather. D.O. was highly variable with daily maximum values of 8.0-9.5 mg/l and minimum values of 0.2-0.4 mg/l at the three downstream locations.

- Phenolics were elevated (max.= 34 ug/l) in the lower 2.6 miles and reflected spills or releases of creosote into the sewer system and the stream via a CSO located at RM 2.6.

- Highly elevated fecal coliform counts (290,000-1,800,000/100 ml) indicate the discharge of raw sewage via CSOs into the lower 2.6 miles of Swan Creek.

Bottom Sediment Chemistry (Tables 6 and 6a)

- Elevated to extremely elevated concentrations of chromium, lead, zinc, and arsenic were measured in a sediment sample collected at RM 1.2. These parameters along with nickel were also considered moderately to heavily polluted.

- Eleven (11) different PAH derivitives were detected at RM 1.2 and included three compounds in excess of 20 ppm, the highest in the study area. Total PCB was also detected at 1.6 ppm.

Macroinvertebrates (Table 7; Figure 9)

- A fairly diverse community assemblage was found at RM 10.2 upstream from the urban and CSO impacts. The pollution intermediate mayfly Stenacron predominated. An ICI value of 24 reflected only fair water quality.

- Declining water quality was evident at RM 4.9. The mayfly genus Stenacron continued to predominate, but a reduced population of other mayflies and the absence of caddisflies resulted in an ICI of 16 which is at the extreme low end of the fair range.

- Poor water quality conditions were indicated by the macroinvertebrate community at RM 3.9, 2.6, and 1.2, all of which are impacted by CSO discharges. The substrate was covered by a layer of sewage sludge and oil was noted on the surface. Pollution tolerant organisms (oligochaetes, pulmonate snails) predominated and mayfly and caddisfly taxa were nearly absent. ICI values ranged from 6-8 which indicated poor water quality.

- A detectable increase in the number of taxa was noted at RM 0.6, but overall water quality remained poor (ICI = 12). Much of this increase was due to the addition of pollution tolerant midge taxa.

Fish Community (Tables 9-10; Figure 12)

- The fish community at RM 10.2 reflected a moderate degree of degradation presumably due to land use practices in the upper watershed. An IBI of 25 and a modified I_{wb} of 5.6 indicate the impairment, particularly in view of the very good habitat (QHEI = 70). Historical data (1984) from RM 21.6 (IBI = 30) indicated marginal attainment of the WWH use (HELP ecoregion criteria = 32).

- A similarly degraded fish community was observed at RM 4.4. This site is impounded and the IBI (24) and modified I_{wb} (5.9) barely miss the HELP criteria for the proposed Modified Warmwater Habitat (MWH) use for impounded sites. Several pipes (presumably storm sewers) were observed and one appeared to be discharging raw sewage.

- A severely degraded fish community was noted downstream from RM 3.9 within the area impacted by CSOs. The impairment was the most severe at RM 2.6 and 1.2 with IBI and modified Iwb values indicating a toxic response. During the second sampling run no fish were collected and several dead fish and dead rodents were observed. Significant quantities of creosote was apparent in the sediments and as an oily film on the surface at these two sites. A CSO outfall at RM 2.6 was identified as

  the source of this problem. Some recovery from these conditions occurred at RM 0.5. The influx of relatively less polluted Maumee River water and the proximity to the mainstem fish community were factors in this improvement. Overall community condition remained poor, however.

Fish Tissue Results (Table 11)

- One sample (carp, whole body) collected at RM 0.5 in 1986 had a total PCB concentration of 5.9 ppm.

Aquatic Life Use Attainment Summary (Table 12)

- Swan Creek failed to fully attain the WWH use in the lower 10.2 miles. The impairment was most severe at RM 3.9, 2.6, and 1.2, all of which are impacted by CSO discharges. Biological performance at these locations was poor or very poor. The non-attainment at RM 10.9 seemed related to nonpoint source impacts and at RM 4.4 to impoundment and possibly general urban/CSO impacts.

- In addition to sewage from CSO discharges, creosote was discharged in significant amounts from a CSO at RM 2.6. This resulted in acutely toxic conditions that resulted in a fish kill and longer term impairments as evidenced by the biological community results.

OTTAWA RIVER/TENMILE CREEK

Tenmile Creek was sampled at three locations (RM 5.1, 4.1, 1.0) upstream from its confluence with the Ottawa River for chemical/physical water quality, macroinvertebrates, and fish. The Ottawa River was sampled for chemical/physical water quality (6 locations), bottom sediment (2), macroinvertebrates (7), and fish (8) between RM 18.5 and 1.6.

Physical Habitat for Aquatic Life

- Tenmile Creek has been previously modified as evidenced by a straightened, rip-rap lined channel at RM 5.1. QHEI values of 58 at RM 5.1 and 4.1 reflected these past modifications. The substrate at RM 4.1 was largely composed of sand and was the likely result of sand and gravel discharges. Habitat was much improved at RM 1.0 (QHEI = 74).

- The upstream site on the Ottawa River (RM 17.8) had very good habitat (QHEI = 73) with no evidence of recent modifications.

- Evidence of past stream channel modification existed from RM 12.2 to 1.6 ($\bar{X}$ QHEI = 53). Encroachment of general urban activity on the riparian buffer zone increased as the Ottawa River entered the Toledo urban area. Bank stabilization (rip-rap), diking, bridge construction, and channel maintenance were the principal modifications. Despite these activities instream cover and pool quality were good.

- The level of Lake Erie and attendant seiches affects the Ottawa River from 7-8 miles upstream. This results in a 100 percent pool and backwater habitat with flow reversals in the lower section.

Chemical/Physical Water Quality (Tables 2-4; Figure 6)

- Chemical water quality in Tenmile Creek was generally good with the following exceptions: one cyanide sample was well above detection (160 ug/l) and NH_3-N was elevated at RM 5.1. Fecal coliform bacteria counts (6100-7400/100 ml) were also elevated throughout this area. The longitudinal D.O. pattern reflected an increase from RM 5.1 to 1.1 suggesting recovery from lower levels upstream. This along with the elevated NH_3-N and fecal coliforms suggests mild sewage enrichment at and downstream from RM 5.1.

- Detectable quantities of cadmium were noted at RM 4.1 in Tenmile Creek which is downstream from the Kings Rd. landfill (RM 4.5).

- Good chemical water quality was observed in the Ottawa River at RM 17.9. Two detections (but not WQS violations) of cadmium were noted, however.

- Water quality remained good at RM 12.2, but the longitudinal pattern indicates the beginning of a decline in D.O. and increases in NH_3-N. Fecal coliform counts were elevated (4600/100 ml).

- WQS violations for D.O. began at RM 8.9 and increased in severity downstream to RM 6.4. Considerable varability between samples both on a diurnal and temporal basis were noted. D.O. measurements taken near the bottom were much lower than near the surface indicating the significant effect of organic sludge. This area is impacted by CSO discharges, several point sources, and two major landfills. Some slight improvements were noted at RM 4.9, but WQS violations remained.

- Ammonia-N concentrations generally increased at each station downstream with the highest maximum values recorded at RM 6.4 and 4.9. None of these were WQS violations, however. A great deal of variability was noted for NH_3-N with several individual samples less than detection (0.05 mg/l). The maximum values were recorded following rainfall events and are presumably related to CSO discharges.

- The amount of floating trash, debris, and other flotsam increased in the lower 6-8 miles of the Ottawa River. The appearance of oil and surface films was likewise more prevalent in this section.

Bottom Sediment Chemistry (Tables 6 and 6a)

- Heavy metal concentrations were extremely elevated for chromium, lead, and zinc at RM 6.4 and 4.9 in the Ottawa River. These concentrations also were in the moderately to heavily polluted categories for Great Lakes harbor areas. Nickel concentrations were in the heavily polluted range at RM 6.4. With the exception of copper, metals concentrations were higher at RM 6.4.

- Analysis for organic chemical compounds revealed two PAH derivitives and total PCB (1.6 ppm) at RM 6.4. This increased to 11 compounds (mostly PAHs) including total PCB (2.5 ppm) at RM 4.9.

- Total PCB concentrations in sediment collected in October 1986 (need reference) at RM 6.4 and 4.9 were 1.6 ppm and 2.1 ppm, respectively. Water column concentrations were at or slightly above detection. Bottom sediment samples from the Ottawa River immediately adjacent to the Dura Landfill (RM 5.1) ranged from 2.1-17 ppm. Samples collected from the stream bank soils had concentrations of 2-193 ppm.

Macroinvertebrates (Table 8; Figure 10)

- Qualitative sampling in Tenmile Creek revealed fair to marginally good water quality. Isopods predominated at RM 5.1 and 4.1 with midges and mayflies common. A slight improvement was noted at RM 1.0 with water pennies, heptagnid mayflies, and hydropsychid caddisflies predominating.

- Only fair water quality was indicated in the Ottawa River at RM 18.5 (ICI = 24). Although taxa richness was relatively good the community was predominated by pollution intermediate and tolerant organisms.

- The macroinvertebrate community declined at RM 11.0 with an ICI of 14 indicating marginally fair water quality. Black flies and pollution intermediate caddisflies (genus Cheumatopysche) predominated.

- Degradation worsened to the poor range at RM 9.0 (ICI = 10) and reflected the impact of CSO discharges even though estuary conditions prevailed.

- Poor water quality was further reflected by the results at RM 7.4 and downstream to RM 4.9. The community was composed almost entirely of tolerant organisms. ICI values ranged from 6-10.

- A slight improvement was noted at RM 1.6 although the evaluation was poor (ICI = 6). The collection of a mayfly (Caenis) and caddisfly (Cyrnellus fraternus) indicated the slight improvement which was apparently due to dilution of degraded Ottawa Riber water with Maumee Bay water.

Fish Community (Tables 9-10; Figure 13)

- Modified habitat at RM 5.1 and 4.1 in Tenmile Creek may have influenced the results. Both the IBI and modified Iwb results attain the proposed Modified Warmwater Habitat (MWH) criteria for HELP ecoregion wading site type. However, QHEI scores of 58 indicate that sufficient habitat should have been available to attain the HELP WWH criteria.

- The fish community failed to fully attain the IBI and modified Iwb WWH criteria for the HELP ecoregion at RM 1.0 despite a much improved macrohabitat (QHEI = 74).

- The Ottawa River fish community at RM 17.8 was similar in performance to Tenmile Creek. Macrohabitat was very good (QHEI = 73) at this site, also.

- Fish community condition declined at RM 9.8 with the modified Iwb indicating very poor performance. An odor of raw sewage was prevalent at this site.

- Degradation worsened further at RM 8.7 with both indices reflecting poor and very poor community performance. CSO impacts were evident as were spills of oils and thinned paints (discharged via a CSO by AMC Jeep).

- The severe level of degradation persisted between RM 8.7 and 4.7 with poor to very poor community performance. Previous stream bank erosion exposed trash and debris from the many small landfills that are located along the Ottawa River (Toledo Metropolitan Area Council of Governments 1988).

- Some improvement was noted at RM 1.8 even though overall community performance was fair. This was likely the result of dilution by less polluted Maumee Bay water and the proximity to Maumee Bay itself.

Fish Tissue Results (Table 11)

- Fish tissue samples were collected at RM 1.6 and 4.9 in the Ottawa River and at RM 4.1 in Tenmile Creek. All except the RM 1.6 sample (largemouth bass) were carp whole body composites. Total PCB content was 12 ppm (largemouth bass) and 25.4 ppm (carp) in the Ottawa River at RM 1.6 and 15.1 ppm at RM 4.9. The sample from RM 4.1 in Tenmile Creek contained 6.8 ppm total PCB.

Aquatic Life Use Attainment Summary (Table 12)

- The existing WWH use was not fully attained at any of the 3 Tenmile Creek or 8 Ottawa River sampling locations. Partial attainment was observed at RM 1.0/1.1 in Tenmile Creek. The relative magnitude of the WWH non-attainment was the greatest in the Ottawa River between RM 9.0 and 4.7.

- Although macrohabitat conditions in Tenmile Creek were locally marginal, this alone does not explain the serious non-attainment of the WWH use. Unexplained sources of organic enrichment and possibly episodic releases from industrial sources and landfill leachate were possible causes of the observed use impairment.

- Use impairment in the free-flowing section of the Ottawa River were linked to organic enrichment from unknown sources. A sanitary sewer line parallels the Ottawa River in the vicinity of RM 9.8-11.0 upstream from any known CSO discharges. The odor of raw sewage was noted in this area on each sampling run and this combined with the use impairment indicate that sewage (probably untreated) is entering the Ottawa River.

DUCK CREEK/OTTER CREEK

Samples were collected at 4 locations in Duck Creek for chemical/physical water quality, 1 location for bottom sediment, and 3 locations each for macroinvertebrates and fish (Table 1). Otter Creek was sampled for chemical/physical water quality (4 locations), bottom sediment (3), macroinvertebrates (4), and fish (5). One chemical/physical water quality and one macroinvertebrate site were sampled in Cedar Creek which is adjacent and to the east of Otter Creek.

Physical Habitat for Aquatic Life

- Overall macrohabitat was poor in both streams. QHEI values ranged from 35-47 ($\bar{X}$ QHEI = 41) in Otter Creek and 34-44 ($\bar{X}$ QHEI = 40) in Duck Creek. Both streams contained visual evidences of past channel modification and very little if any recovery has occurred.

Chemical/Physical Water Quality (Tables 2-5)

- Some of the most significant water quality problems in the study area were encountered in Otter Creek and Duck Creek. Minimum D.O. values in both streams was less than 1 mg/l on several occasions.

- Otter Creek had significantly elevated concentrations of arsenic at RM 5.9 just downstream from the abandoned LOF landfill which physically covers a section of Otter Creek. Violations of the WQS for the prevention of acute toxicity were recorded twice. Concentrations declined abruptly at RM 4.0, but remained above detection limits downstream to RM 0.5.

- Arsenic concentrations were elevated to a much lesser degree in Duck Creek at RM 3.0, and these likewise declined in a downstream direction to RM 0.4.

- Ammonia-N levels were elevated in Otter Creek and in combination with high pH readings resulted in WQS violations for the prevention of acute toxicity and the chronic WWH criterion. Elevated readings persisted to RM 0.5 and WQS violations were recorded downstream to RM 2.1. High NH_3-N levels were also recorded at RM 3.0 and 2.1 in Duck Creek which likewise resulted in WQS violations.

- Phenolics concentrations exceeded the WQS for fish flesh tainting (10 ug/l) at 3 locations in Otter Creek and one location in Duck Creek. None of the concentrations were high enough to cause any toxicity problems for aquatic life, however. Concentrations in Otter Creek were highest at RM 5.9 and declined to less than detection at RM 0.5.

- Several violations of the WWH WQS for copper were observed, but only one at RM 0.5 in Otter Creek was considered significant.

- Several organic chemical compounds were detected in water column samples upstream and downstream from the Evergreen landfill, in a small ditch adjacent to Fondessey Enterprises, and in a tributary to Driftmeyer Ditch following a spill from Commercial Oil. None were at particularly high concentrations, but their detection in the water column is noteworthy.

Bottom Sediment Chemistry (Tables 6 and 6a)

- Concentrations of chromium, lead, zinc, and arsenic were highly to extremely elevated and moderately to heavily polluted in Otter Creek. Nickel was in the moderately polluted range and copper was elevated and heavily polluted at RM 2.1. Zinc and arsenic declined with distance downstream and chromium, lead, and nickel were highest at RM 4.0.

- In Duck Creek lead, zinc, and arsenic were elevated to highly elevated and moderately or heavily polluted.

- Four organic chemical compounds were detected at low levels and included toluene, pyrene, and two phenol derivitives.

Macroinvertebrates (Table 8)

- Upstream from the LOF landfill in Otter Creek the macroinvertebrate community was predominated by pollution tolerant taxa. Water quality was considered fair.

- Downstream from the LOF landfill (RM 6.0) and at all sites downstream to RM 2.0 water quality was very poor (ICI = 0). No organisms were collected from the artificial substrate samplers at RM 6.0 and only 2 taxa were found on the natural substrates. Conditions were considered to be acutely toxic. The severe toxicity indicated between RM 6.0 and 2.0 was only slightly diminished at RM 0.3 (ICI = 2).

- Sampling in Cedar Creek, a similarly sized stream in an adjacent subbasin, produced a macroinvertebrate community predominated by Heptagniid and Ephemeriid mayflies. An ICI score of 34 met the HELP ecoregion WWH criteria.

- The Duck Creek macroinvertebrate community reflected poor water quality at RM 3.0 (ICI = 4). Some slight improvement was noted at RM 2.1 and 0.4 (ICI = 10 at both sites), but pollution tolerant taxa still predominated. Water treatment plant lime sludge blanketed the substrates in Duck Creek.

Fish Community (Tables 9-10)

- Macrohabitat (both small stream size and channel modification) was a principal limiting factor at Otter Creek RM 7.2. Potential sources of water quality degradation were also located upstream. Only two fish species were found at RM 7.2.

- Severe degradation was observed in the remainder of the Otter Creek mainstem between RM 5.7 and 0.5. One or two species each were collected at RM 5.7, 2.1, and 0.5. No fish were found at RM 4.0. IBI values were 12 at all of these sites with the exception of IBI = 13 at RM 0.5.

  Modified Iwb values were less than 1.0 at each site. These results reflect severe degradation of an acutely toxic character. Macrohabitat, although quite marginal in Otter Creek, was not the principal limiting factor in these results. Various colors of precipitates and noxious chemical odors were noted at the sampling site (RM 5.7) downstream from the LOF landfill. The stream banks and substrates at RM 4.0 downstream from the Sun Oil Co. refinery were oil soaked. Heated effluent (T[°C] of 38 were measured) impacted the RM 0.5 location.

- The Duck Creek fish community was affected by the relatively poor macrohabitat and chemical water quality. The RM 3.0 location minimally attained the proposed HELP ecoregion MWH criteria for the IBI (22). Results at RM 2.1 reflected further degradation (IBI = 15). The fish community improved substantially at RM 0.5 (IBI = 34) and partially attained the interim criteria for Lake Erie river mouth areas. The dilution provided by less polluted Maumee Bay water and the presence of fish species associated with such larger water bodies likely aided the community performance at this location.

<u>Aquatic Life Use Attainment</u> (Table 12)

- The existing WWH habitat use was not attained at any of the 5 Otter Creek locations or the 3 Duck Creek locations. One location in Duck Creek partially attained the interim criteria for Lake Erie river mouth areas. Overall conditions were rated as poor or very poor in both streams. In contrast Cedar Creek fully attained the HELP ecoregion WWH criteria for the ICI.

- Given the extensive macrohabitat modifications and apparent lack of physical recovery it is doubtful that the WWH use can realistically be attained in either creek. However, biological improvements should be expected with improved chemical water quality. The proposed MWH criteria were not attained at any of the Otter Creek locations and at only one location in Duck Creek. The MWH biocriteria are the minimum levels of biological community performance that a habitat modified stream should be able to support.

- The severe non-attainment in Otter Creek was due to a complex combination of impacts including landfill leachate (LOF landfill) and major point sources of wastewater (Sun Oil, BP America refineries).

- Non-attainment in Duck Creek was somewhat less severe, but still substantial. This was attributed to a combination of factors that include water treatment plant sludge, landfill leachate (abandoned), and possibly the Toledo Edison-Acme EGS ash pond discharge. It is also possible that unknown sources of contamination are also impacting Duck Creek.

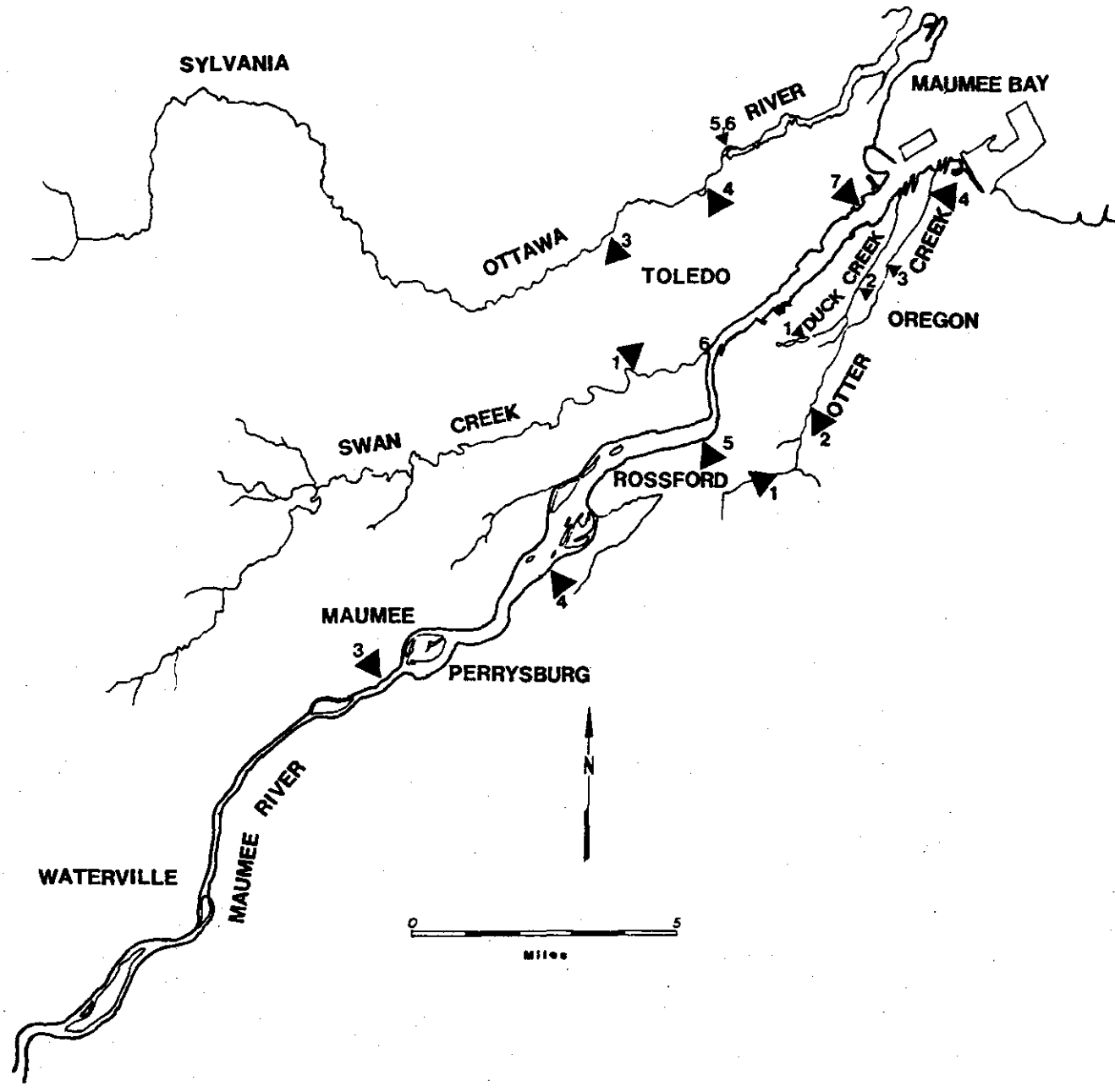
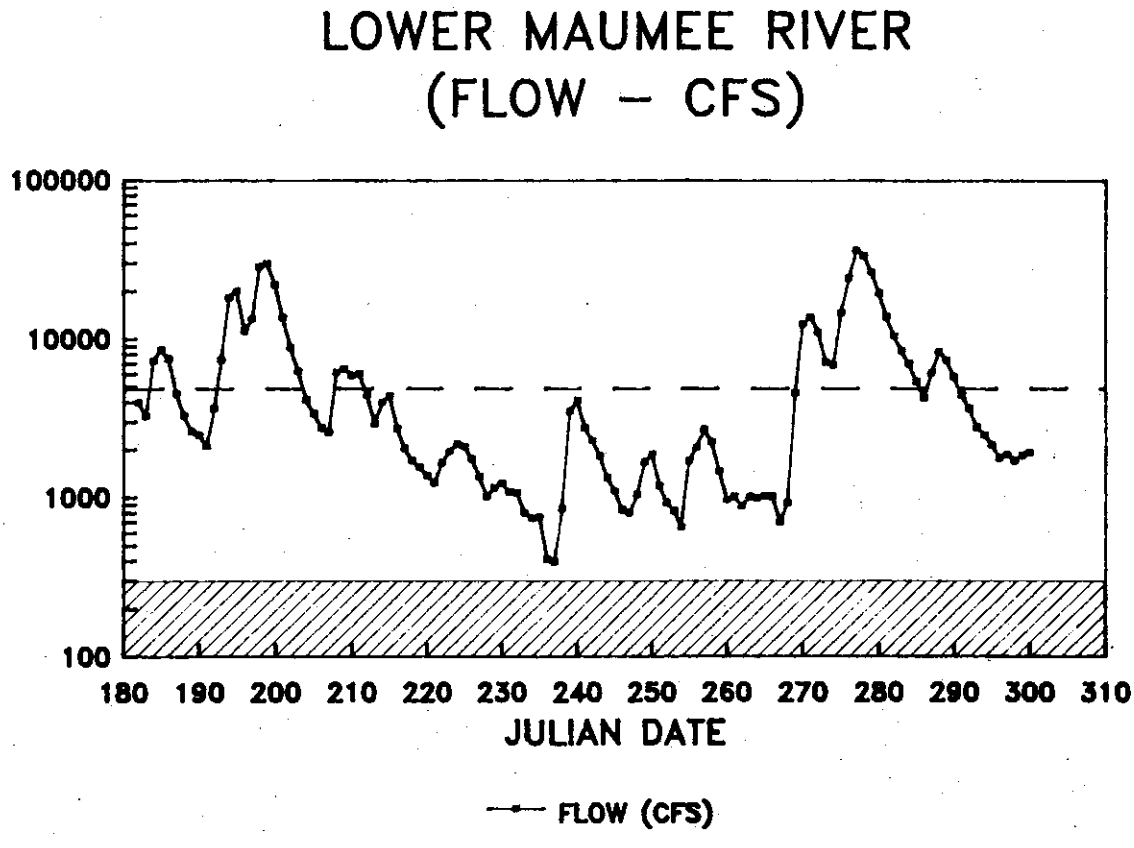


Figure 1. The Lower Maumee River study area showing principal streams and tributaries, population centers, and pollution sources (see Table 4 for discharger legend).

Table 1. Summary of sampling conducted in the lower Maumee River study area, June-October, 1986. Number of locations is given by sampling type.

Segment	Chemical/ Physical	Sediment	Fish	Macro-invertebrates
Maumee R. & Bay (RM 54.9-0.0)	14*	4	27	18
Swan Creek (RM 10.2-0.5)	6	1	8	6
Ottawa River (RM 18.5-1.6)	6	2	8	7
Tenmile Creek (RM 5.1-1.0)	3	-	3	3
Otter Creek (RM 7.2-0.3)	4	3	5	4
Duck Creek (RM 3.0-0.4)	3	1	3	3
Cedar Creek (RM 20.8)	1	-	-	1
Total Sites	37	11	54	39

* water column parameters are listed in Table 2.



WATERVILLE USGS GAGE

Figure 2. Flow hydrograph for the Maumee River near Waterville, Ohio (RM 20.7); May 1 through October 31, 1986. Critical low flows ($Q_{7,10}$ [94 cfs] to 80% duration flow [300 cfs, May through November for the period of record 1939 to 1978]) are represented by the shaded area; dashed line represents period of record average flow.

Table 2. Chemical/physical parameters measured in the water column in the Lower Maumee River study area, 1986[a].

Temperature	Cadmium, Total Recoverable (Cd-TR)
Dissolved Oxygen (D.O.)	Calcium, Total Recoverable (Ca-TR)
pH	Chromium, Total Recoverable (Cr-TR)
Conductivity	Copper, Total Recoverable (Cu-TR)
Flow	Iron, Total Recoverable (Fe-TR)
Ammonia-Nitrogen (NH_3-N)	Lead, Total Recoverable (Pb-TR)
Nitrate-Nitrogen (NO_3-N)	Magnesium, Total Recoverable (Mg-TR)
Nitrite-Nitrogen (NO_2-N)	Nickel, Total Recoverable (Ni-TR)
Total Kjeldahl Nitrogen (TKN)	Zinc, Total Recoverable (Nn-TR)
Phosphorus, Total (P-T)	Phenolic Compounds (Phenol)
Hardness, Total ($CaCO_3$)	Cyanide, Total (CN-T)
Residue, Total Nonfilterable (TSS)	Arsenic, Total Recoverable (AS-TR)
Oil and Grease (O&G)	Selenium, Total Recoverable (Se-TR)
Chemical Oxygen Demand (COD)	

[a] Sample collection, preservation, and analytical methods are specified in Ohio EPA (1987a).

Table 3. Violations of Ohio EPA Warmwater Habitat water quality standards (OAC 3745-1) for chemical/physical parameters measured in the Lower Maumee River study area, 1986. Violations of criteria for the prevention of acute toxicity or the prevention of nuisance conditions are denoted with a double asterisk (**).

Stream Name Location	River Mile	Violation: Parameter(value)
Maumee River		
Grand Rapids Dam pool	32.6	Cu (15, 20, 35)
Waterville St. Rt. 64	20.7	Cu (15)
Ust. I-475	17.2	Cu (15, 15, 20)
Ewing Island	13.6	Cu (18, 30)
Eagle Pt.	9.4	Cu (14, 18, 30, 35)
Dst. I-75	6.5	Cu (15, 20, 15, 17)
Cherry St.	4.9	Cu (20, 12, 18, 17); Pb (70); D.O. (3.0)
U.S. Rt. 120	3.3	Cu (25, 17, 18, 11, 10); D.O. (2.6, 3.0, 3.6)
Ust. Toledo WWTP	1.5	Cu (12, 14, 10); D.O. (3.2, 3,2, 3.5, 3.5); Cu (10, 10)
Dst. Toledo WWTP	1.0	Zn (170, 170); D.O. (3.8, 3.7, 3.9, 3.3)
Near Mouth	0.5	Cu (30, 10, 12, 15, 15); D.O. (3.6)
Grassy Island/ Cullen Park	0.2	Cu (20, 20); Zn (140, 170)
Bayshore Intake	0.1	Cu (20, 20, 10); D.O. (3.1, 2.1)
Presque Isle	0.0	Cu (20, 20, 11, 15); Zn (140); D.O. (3.1)

Table 3. continued.

Stream Name Location	River Mile	Violation: Parameter(value)
Tenmile Creek		
Centennial Rd.	5.1	Cu (9.6); Fe (1280, 3420, 1180)
Sylvania Rd.	4.1	Fe (1240, 3480, 1180)
Old Post Rd.	1.0	Fe (1420, 1120)
Ottawa River		
Sturbridge Rd.	17.9	Fe (1350, 4700)
Bancroft St.	12.2	Fe (2170, 1160, 4180, 2110)
Auburn Ave.	8.9	D.O. (4.2); Cu (7.6); Fe (1890, 2230, 3170, 2120, 3500)
Berdan Ave.	7.4	D.O. (2.3, 3.9); Fe (2330, 1730, 2280, 3150, 2290, 3720)
Lagrange St.	6.4	D.O. (1.7**, 2.8); Cu (9.5); Fe (2700, 1380, 3910, 4310, 2230, 3850)
Stickney Ave.	4.9	D.O. (3.0, 3.9); Cu (13.3, 39.6); Fe (3940, 2900, 2930, 4150)
Swan Creek		
Eastgate Rd.	10.2	Cu (13.0); Fe (3950, 10200); phenolics (23)
Detroit Ave.	4.9	Cu (20.3); Fe (3700, 1040, 18400, 4720)
Champion St.	3.9	D.O. (2.7); Cu (17.7, 9.0); Fe (4450, 1050, 17800, 1290, 4910, 4850)

Table 3. continued.

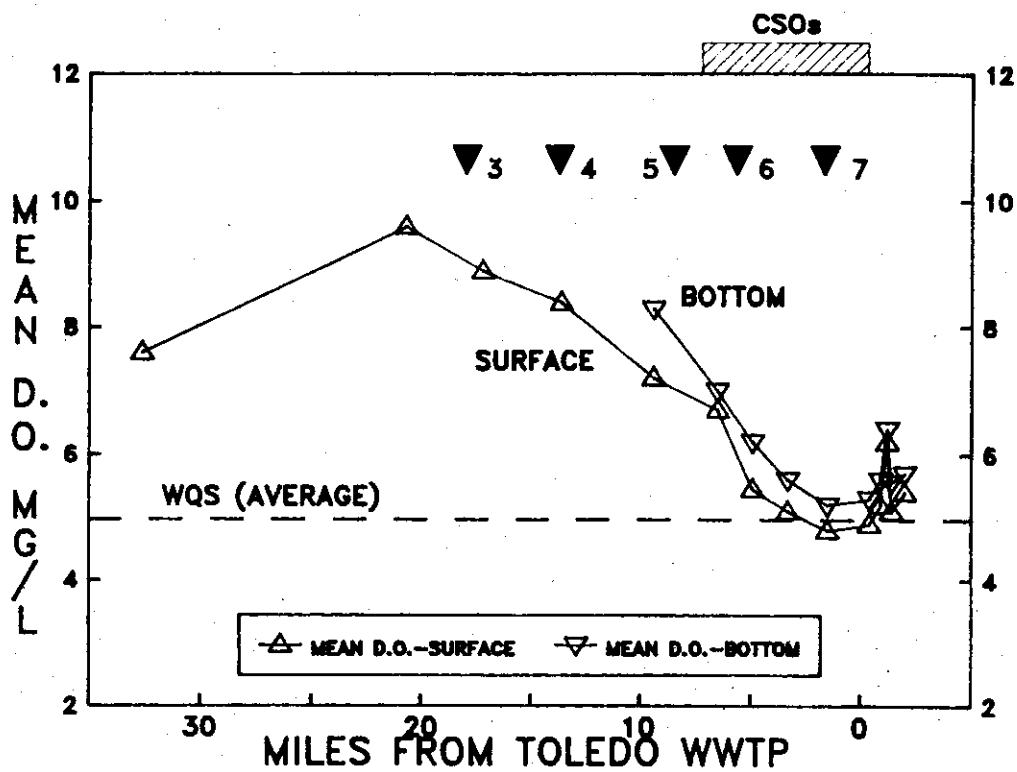
Stream Name Location	River Mile	Violation: Parameter(value)
Swan Creek (continued)		
Hawley St.	2.6	D.O. (2.3, 0.4**); phenolics (41); Cu (19.1); Fe (19700, 1970, 4650, 2200)
Collingwood Blvd	1.2	D.O. (0.4**, 2.7); phenolics (34); Cu (11.8, 18.8); Fe (1230, 17500, 1330, 3670, 10400)
St. Clair St.	0.5	D.O. (2.6, 0.2**), Cu (10, 12.9); Fe (1510, 9620, 1260, 2780, 1660)
Otter Creek		
Oakdale St.	5.9	D.O. (0.2**, 0.2**, 0.5**); pH (10.0, 10.1, 10.2); NH_3-N (0.4, 2.0, 2.2, 2.5); phenolics (100, 113); As (362**, 388**), Cd (1.0), Cu (30, 21.6, 16.5); Fe (1350, 2140, 2940, 3410)
Wheeling St. (& Starr Ave.)	4.0	D.O. (2.4, 3.5, 3.8); NH_3-N (0.7, 1.4, 1.7); phenolics (25, 27, 34, 48); Cu (9.3)
Millard Ave.	2.1	D.O. (0.1**, 2.7, 3.8); NH_3-N (1.3); phenolics (20, 27, 34); Cu (15); Fe (1210, 1760)
Unnamed Port Rd.	0.5	Cu (15, 17, 25, 53**); Fe (2050, 2250, 3210, 5530)
Duck Creek		
Wheeling St.	3.0	D.O. (0.2**, 0.3**, 0.5**); NH_3-N (5.7, 6.5) Fe (1900, 2320, 2750)
York St.	2.1	pH (9.6), NH_3-N (0.5); Fe (1140, 1400, 1680, 3950); D.O. (2.4)
Oberlin Dr.	0.4	D.O. (1.9**, 3.1); Cu (10.3); Fe (2050, 2140, 2160, 3600)

Table 4. Location of significant point sources of surface water impacts in the Lower Maumee River study area. The number corresponds to that used in the study area map (Figure 1) and longitudinal graphs of the chemical water quality and biological index results (Figs. 3 through 14).

River/Stream River Mile	Number	Description
Maumee River mainstem		
45.9	1	Napoleon WWTP (2PD00000) - 4 CSO, 1 Bypass
43.5 - 45.8	2	Campbell Soup (2IH00021) - mult. outfalls
18.2	3	Lucas Co.- Maumee WWTP (2PK00000)
14.5	4	Perrysburg WWTP (2PD00002) - 7 CSO, 2 Byp.
6.9 - 8.3	5	LOF Rossford (2IN00030) - 9 outfalls
5.2	6	Swan Creek - CSO discharges
1.4	7	Toledo WWTP (2PF00000) - 34 CSO, 1 Bypass
Swan Creek		
2.6	1	Jennison-Wright (no permit) - via CSO
Tenmile Creek/Ottawa River		
5.1 (Tenmile)	1	Reichart Stamping (2IS00008)
4.5 (Tenmile)	2	Kings Rd. landfill (2IN00079)
7.6 - 8.0 (Ottawa)	3	AMC Jeep (2IC00022) - 4 outfalls
6.0 (Ottawa)	4	Diversitech General (2IQ00012)
5.5 - 5.7 (Ottawa)	5	Stickney Ave. landfill - 50 A (closed)
5.1 (Ottawa)	6	Dura landfill - 55 A

Table 4. (continued)

River/Stream River Mile	Number	Description
Otter Creek		
6.4 - 6.6	1	Libbey-Owens-Ford (2IN00020)
4.9 - 5.2	2	Sun Oil (2IG00003)
2.3	3	Fondessey Landfill (2IN00013)
0.4	4	BP America Refinery (2IG00007)
Duck Creek		
4.0 - 4.2	1	Toledo Edison - Acme EGS (2IB00001)
2.6	2	Toledo WTP (2IW00260)



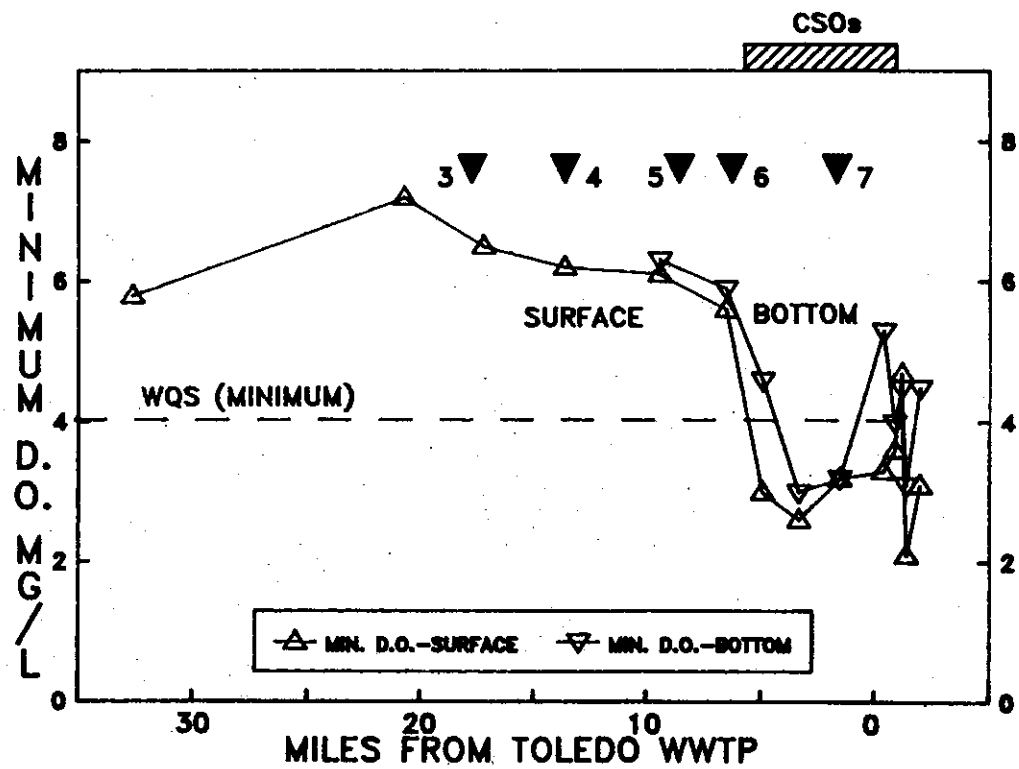


Figure 3. Longitudinal profile of mean (top tier) and minimum (lower tier) dissolved oxygen (D.O.) in the Maumee River mainstem during June - October, 1986.

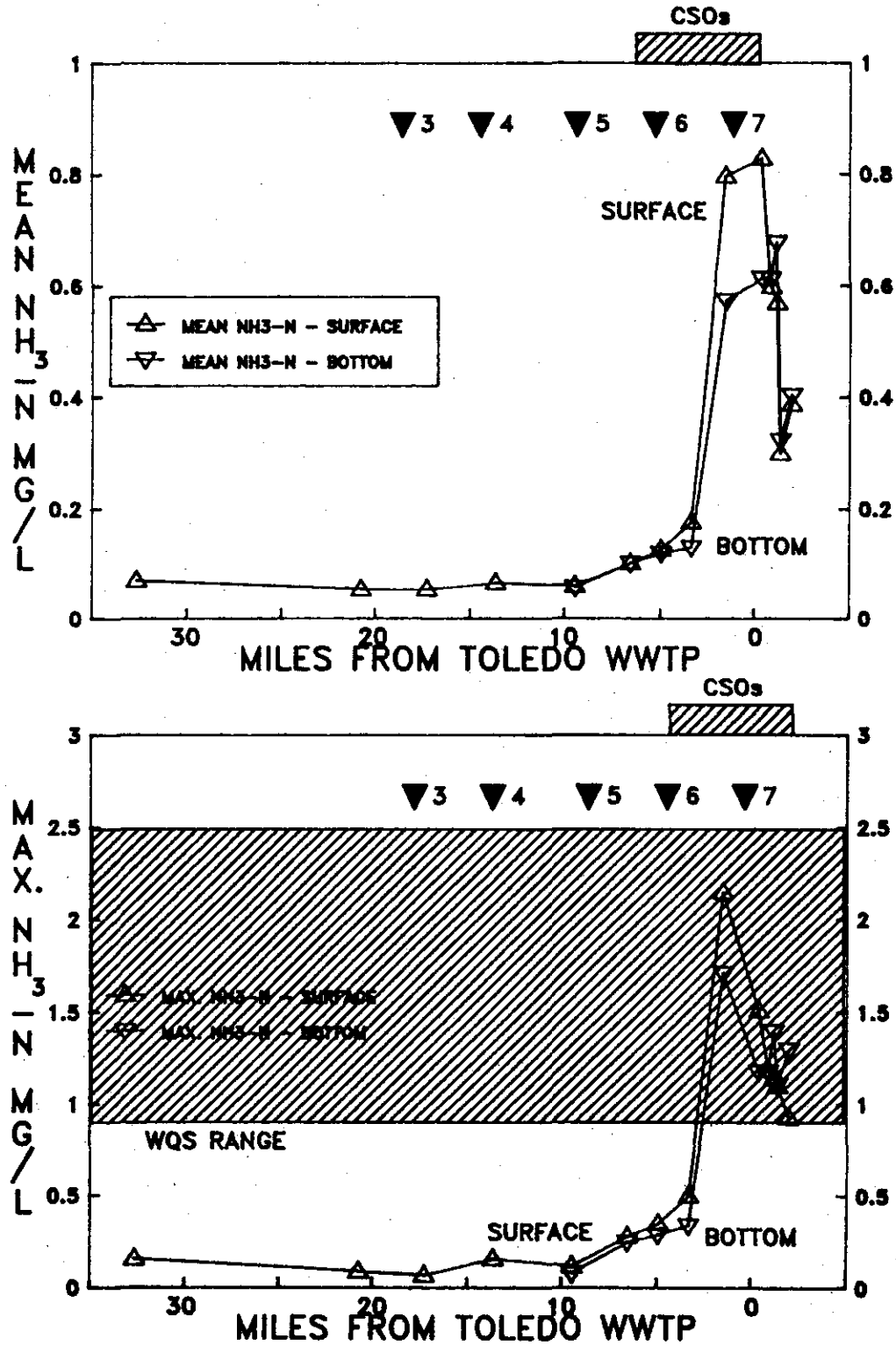


Figure 4. Longitudinal profile of mean (top tier) and maximum (lower tier) ammonia-nitrogen (NH_3-N) in the Maumee River mainstem during June - October, 1986. Shaded area in the top tier is the WQS range between the 90th percentile and 25th percentile pH and temperatures recorded during sample collection.

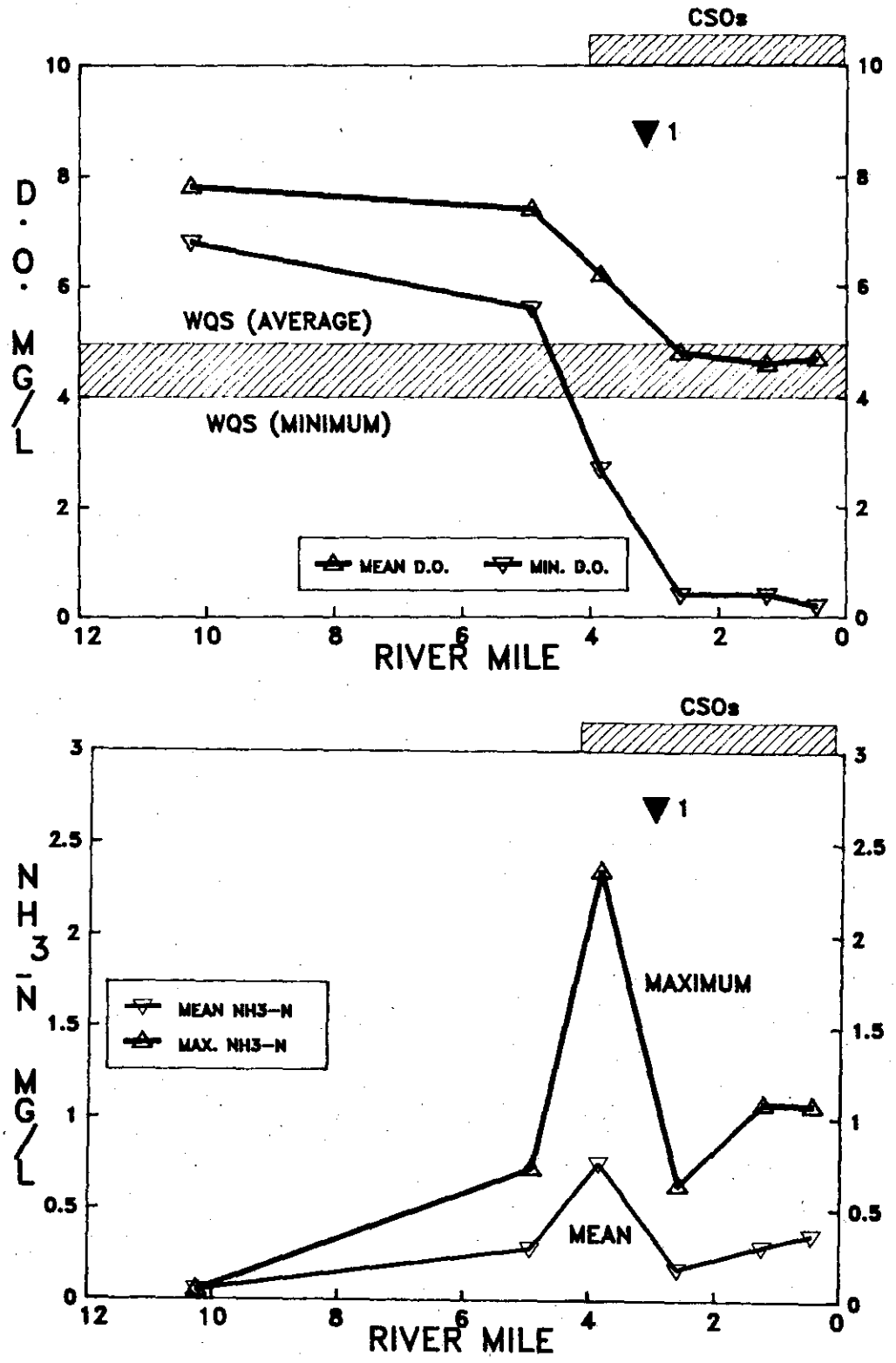
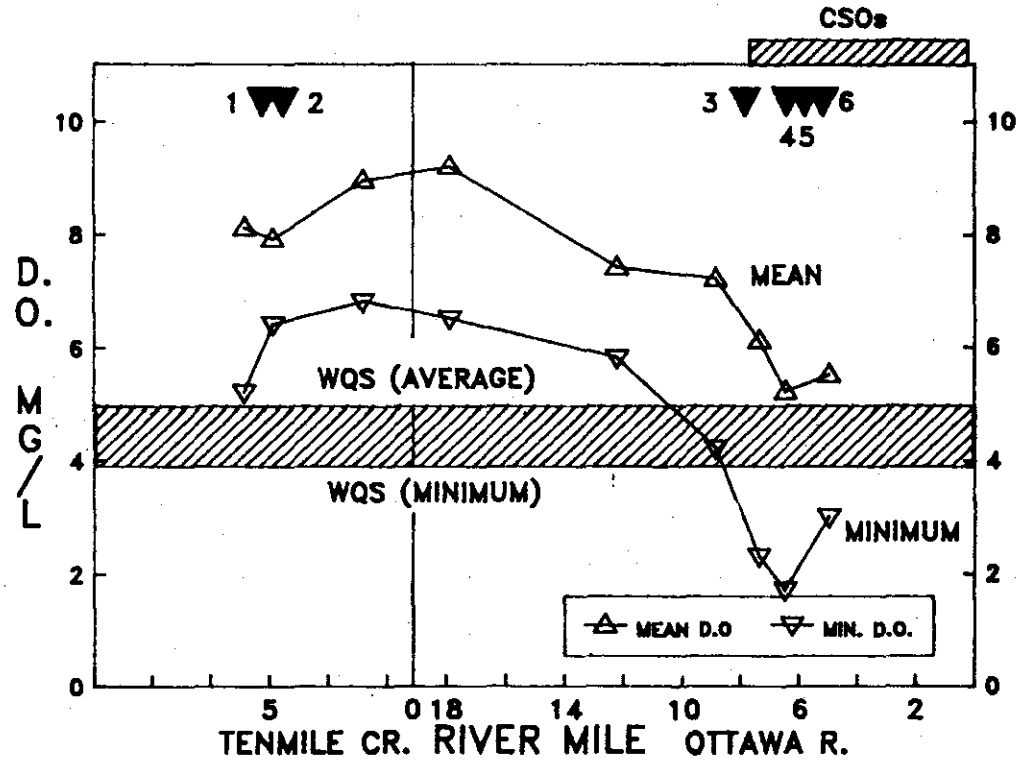


Figure 5. Longitudinal profile of mean and minimum dissolved oxygen (D.O.; top tier) and mean and maximum ammonia-nitrogen (NH_3-N; lower tier) in Swan Creek during June - October, 1986.



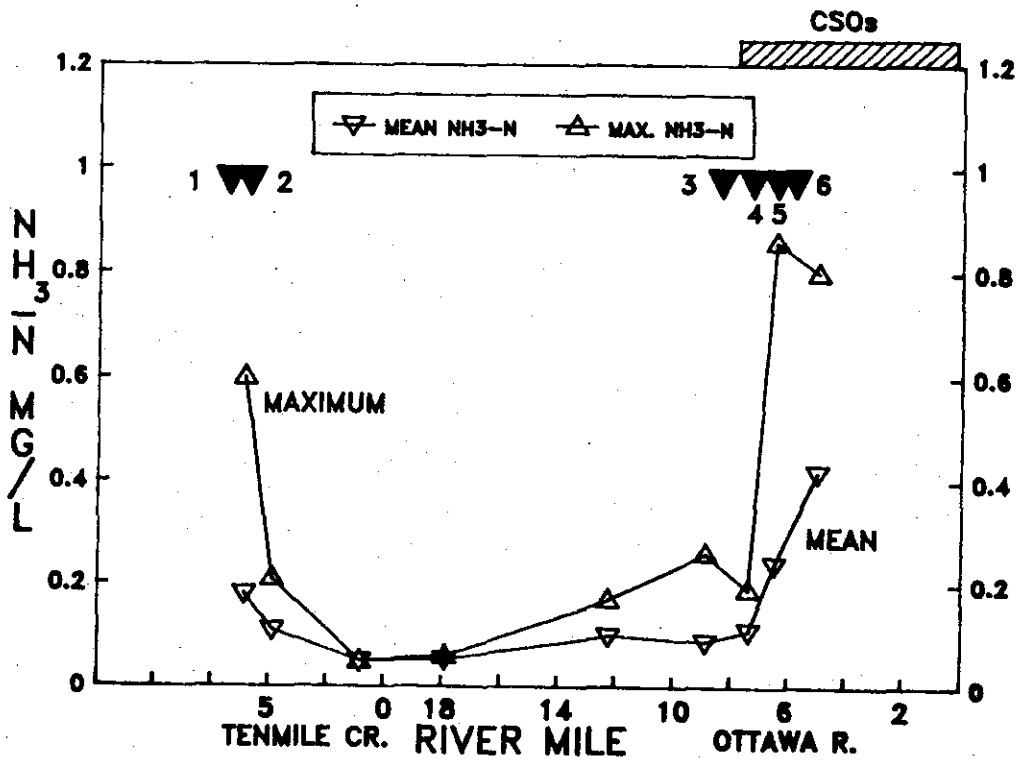


Figure 6. Longitudinal profile of mean and minimum dissolved oxygen (D.O.; top tier) and mean and maximum ammonia-nitrogen (NH_3-N; lower tier) in Tenmile Creek and the Ottawa River during June - October, 1986.

Table 5. Mean and minimum D.O. and mean and maximum NH_3-N, total recoverable arsenic, and phenolics at sampling locations in Otter Creek and Duck Creek during June - October, 1986. Violations of chronic (WWH) criteria are denoted with an asterisk (*) and exceedences of criteria for the prevention of acute toxicity are denoted with a double asterisk (**).

Stream Location	River Mile	D.O. (mg/l) Mean	D.O. (mg/l) Min.	NH_3-N (mg/l) Mean	NH_3-N (mg/l) Max.	Arsenic (ug/l) Mean	Arsenic (ug/l) Max.	Phenolics Mean	Phenolics Max.
Otter Creek									
Oakdale St.	5.9	1.3**	0.2**	1.76**	2.45**	287*	388**	78*	113*
Wheeling St. (& Starr Ave.)	4.0	3.2*	2.4*	2.02*	2.97*	19	22	29*	34*
Millard Ave.	2.1	3.1*	0.1**	1.38	2.37*	16	20	25*	34*
Unnamed Port Rd.	0.5	4.7*	4.2	0.24	0.42	5	7	20K	20K
Duck Creek									
Wheeling St.	3.0	1.8**	0.2**	3.30*	6.45**	50	89	20K	20K
York St.	2.1	5.2	2.4*	0.74*	1.20**	12	18	47*	102*
Oberlin Dr.	0.4	3.8*	1.9**	0.31	0.36	7	10	20K	20K

Table 6. Concentrations of heavy metals in sediments of the Lower Maumee River study area, 1986. All parameter concentrations, excluding nickel, were ranked based on a stream sediment classificatio system described by Kelly and Hite (1984) and U.S. EPA criteria for great lakes harbor areas. Highly and extremely elevated results are underlined.

Stream Name	River	Sediment Concentration (mg/kg dry weight)						
Location	Mile	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Arsenic
Maumee River								
Grand Rapids Dam pool	32.6	0.24[a,N]	5.9[a,N]	5.3[a,N]	15.3[a,N]	4.8[N]	24.5[a,N]	
Eagle Point	9.4	0.95[b,N]	43.2[d,M]	36.3[a,M]	52.3[c,M]	44.8[M]	178[d,M]	21.5[d,H]
Cherry St.	4.9	1.52[c,N]	33.4[c,M]	65.3[c,H]	108[e,H]	34.4[M]	190[d,M]	10.1[b,H]
Dst. Toledo WWTP	1.0	1.46[c,N]	57.2[d,M]	45.5[b,M]	52.5[c,M]	46.2[M]	384[e,H]	12.9[c,H]
Swan Creek								
Collingwood Blvd.	1.2	1.39[c,N]	27.2[c,M]	18.6[a,N]	165[e,H]	29.8[M]	285[d,H]	13.5[c,H]
Ottawa River								
Lagrange St.	6.4	1.77[c,N]	72.2[e,M]	71.4[c,H]	195[e,H]	53.4[H]	333[e,H]	6.2[a,N]
Stickney Ave.	4.9	0.52[b,N]	23.4[c,N]	87.2[c,H]	116[e,H]	21.2[M]	124[c,M]	4.3[a,N]
Otter Creek								
Oakdale Ave.	5.9	0.52[b,N]	32[c,M]	30[a,N]	49[c,M]	22[M]	170[d,M]	26.1[d,H]
Wheeling St.	4.0	0.66[b,N]	149[e,H]	46[b,N]	142[e,H]	26[M]	163[c,M]	14.4[c,H]
Millard Ave.	2.1	0.53[b,N]	54[d,M]	71[c,H]	68[d,M]	19[M]	129[c,M]	7.7[a,M]
Duck Creek								
York St.	2.1	0.60[b,N]	14[a,N]	21.2[a,N]	72.8[d,M]	14[M]	115[c,M]	13.9[c,H]

(Illinois criteria)
[a] Non-elevated
[b] Slightly elevated
[c] Elevated
[d] Highly elevated
[e] Extremely elevated

(U.S. EPA Harbor guidelines)
[N] - non-polluted
[M] - moderately polluted
[H] - heavily polluted

Table 6a. Concentrations of organic chemical compounds that were detected in GC/MS analysis of bottom sediment samples from seven locations in the lower Maumee River study area, 1986. All values are in mg/kg (ppm).

	Sampling Location (RM)						
	Maumee R.			Swan Cr.	Ottawa R.		Otter Cr.
Compound	9.4	4.9	1.0	1.2	6.4	4.9	2.1
Acetone	*	0.04		0.04			
Toluene		1.30					0.32
2-methylnaphthalene		0.79					
Acenaphthene		1.40		5.30			
Dibenzofuran		1.30		4.90			
Fluorene		2.50		7.50			
Phenanthrene		11.00	1.00	29.00	2.80	4.10	
Fluoranthene		11.00	2.10	26.00	6.90	5.40	
Pyrene		7.30	1.90	22.00		4.90	0.17
Benzo(a)anthracene		3.90	1.00	11.00		3.20	
Chrysene		4.00	1.20	8.80		2.80	
Benzo(b)fluoranthene		1.90	0.88	6.50			
Benzo(k)fluoranthene		2.50	0.99	4.40			
Benzo(a)pyrene		2.30	0.91	4.80		1.80	
Indeno(1,2,3-cd)pyrene		1.50	0.89			1.70	
Dibenz(a,h)anthracene		0.97					
Benzo(g,h,i)perlyne		1.80	1.10			1.80	
4-methylphenol		1.40					
Butyl benzylphthalate						4.30	
Di-N-octlyl phthalate			2.00			3.60	
Vinyl acetate				0.04			
Total PCB				1.60	1.57	2.50	
Phenol							0.89
4-methylphenol							1.70

* all values at RM 9.4 were below detection limits.

Table 7. Summary of benthic data collected from artificial substrate samplers and natural substrates in the lower Maumee River and Swan Creek, August 11 to September 24, 1986. N and S designations indicate north or south bank of the mainstem. Unless specified otherwise, ICI status is evaluated by comparison to ecoregional biocriteria for designated aquatic life uses.

Station River Mile	Narrative Evaluation	Invertebrate Community Index (ICI)	No. Quant. Taxa	No. Qual. Taxa	Density (/ft.^{2})
Maumee River					
54.9	Exceptional	52	27	30	873
52.3	Exceptional	48	42	31	400
44.2	Marginally Good[a]	26	27	26	823
34.8	Marginally Good[a]	28	31	27	488
32.1	Good	42	42	36	1697
25.1	Exceptional	52	54	37	1384
20.9	Exceptional	54	50	36	1627
15.0	Marginally Good[b]	24	22	15	544
13.6S	Marginally Good[b]	20	25	28	405
13.3N	Fair[b]	14	22	11	467
8.8N	Fair[b]	18	26	14	913
7.3S	Fair[b]	12	17	11	688
7.2N	Marginally Fair[b]	8	16	6	440
4.7N	Marginally Fair[b]	8	14	12	544
3.6S	Fair[b]	14	18	21	706
3.1N	Marginally Fair[b]	10	19	10	387
1.5N	Marginally Fair[b]	6	12	14	579
0.7N	Marginally Good[b]	16	29	19	1166
Swan Creek					
10.2	Fair	24*	33	31	369
4.9	Fair	16*	28	22	199
3.9	Poor[b]	8	20	8	602
2.6	Poor[b]	6	13	7	602
1.2	Poor[b]	8	13	13	489
0.6	Poor[b]	12	23	10	748

Huron/Erie Lake Plain ICI criteria: EWH = 48, WWH = 34

* significant departure from ecoregion biocriteria (more than 4 ICI units); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 ICI units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

Table 7. (continued)

Station River Mile	Narrative Evaluation	No. Qual. Taxa	Relative Density	Predominant Organisms
Maumee River				
43.5	Good	25	Low	Midges and amphipods

* significant departure from ecoregion biocriteria (more than 4 ICI units); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 ICI units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

Table 8. Summary of benthic data collected from artificial substrate samplers and natural substrates in Duck Creek, Otter Creek, Cedar Creek, and the Ottawa River, August 11 to September 24, 1986.

Station River Mile	Narrative Evaluation	Invertebrate Community Index (ICI)	No. Quant. Taxa	No. Qual. Taxa	Density (/ft.^{2})
Duck Creek					
3.0	Very Poor[b]	4	6	10	145
2.1	Poor[b]	10	16	6	190
0.4	Poor[b]	10	19	14	43
Otter Creek					
6.0	Very Poor	0*	0	2	0
4.0	Very Poor	0*	2	2	166
2.0	Very Poor[b]	0	3	13	1623
0.3	Very Poor[b]	2	7	10	299
Ottawa River					
18.5	Fair	24*	40	42	382
11.0	Fair	14*	25	28	297
9.0	Poor[b]	10	23	19	272
7.4	Poor[b]	10	22	12	365
6.9	Poor[b]	10	21	16	551
4.9	Poor[b]	8	16	10	388
1.6	Poor[b]	6	14	18	616
Cedar Creek					
20.8	Good	34	34	43	90

Huron/Erie Lake Plain ICI criteria: EWH = 48, WWH = 34

* significant departure from ecoregion biocriteria (more than 4 ICI units); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 ICI units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

Table 8. (continued)

Station River Mile	Narrative Evaluation	No. Qual. Taxa	Relative Density	Predominant Organisms
Tenmile Creek				
5.1	Fair/Marg. Good	28	Low	Isopods
4.1	Fair/Marg. Good	35	Low	Isopods
1.0	Marginally Good	36	Moderate	Water pennies, heptagnid mayflies, hydropsychid caddisflies
Otter Creek				
7.2	Fair	15	High	Isopods

* significant departure from ecoregion biocriteria (more than 4 ICI units); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 ICI units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

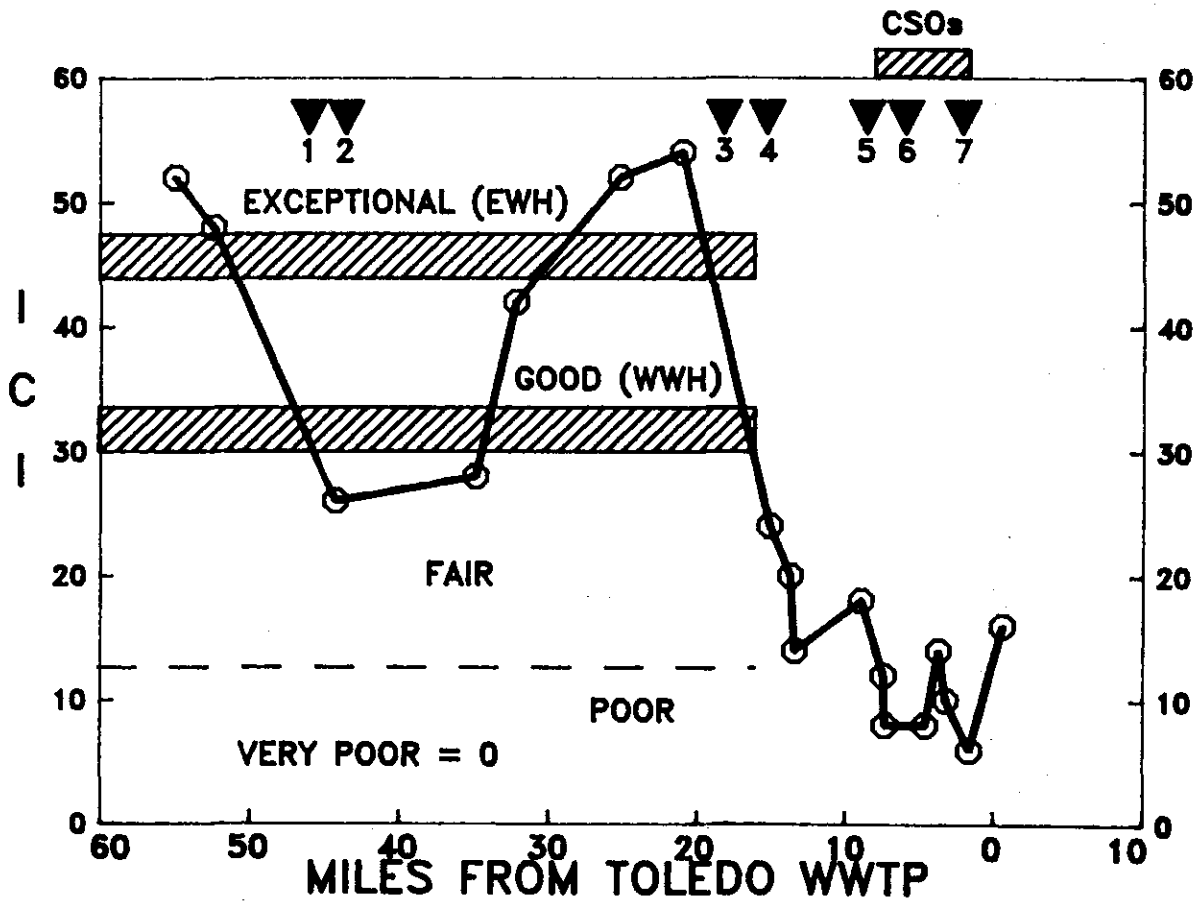


Figure 7. Longitudinal trend of the Invertebrate Community Index (ICI) in the Lower Maumee River mainstem, 1986. Shading indicates boundaries between narrative categories based on the insignificant departure range of the ICI (4 ICI units) values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

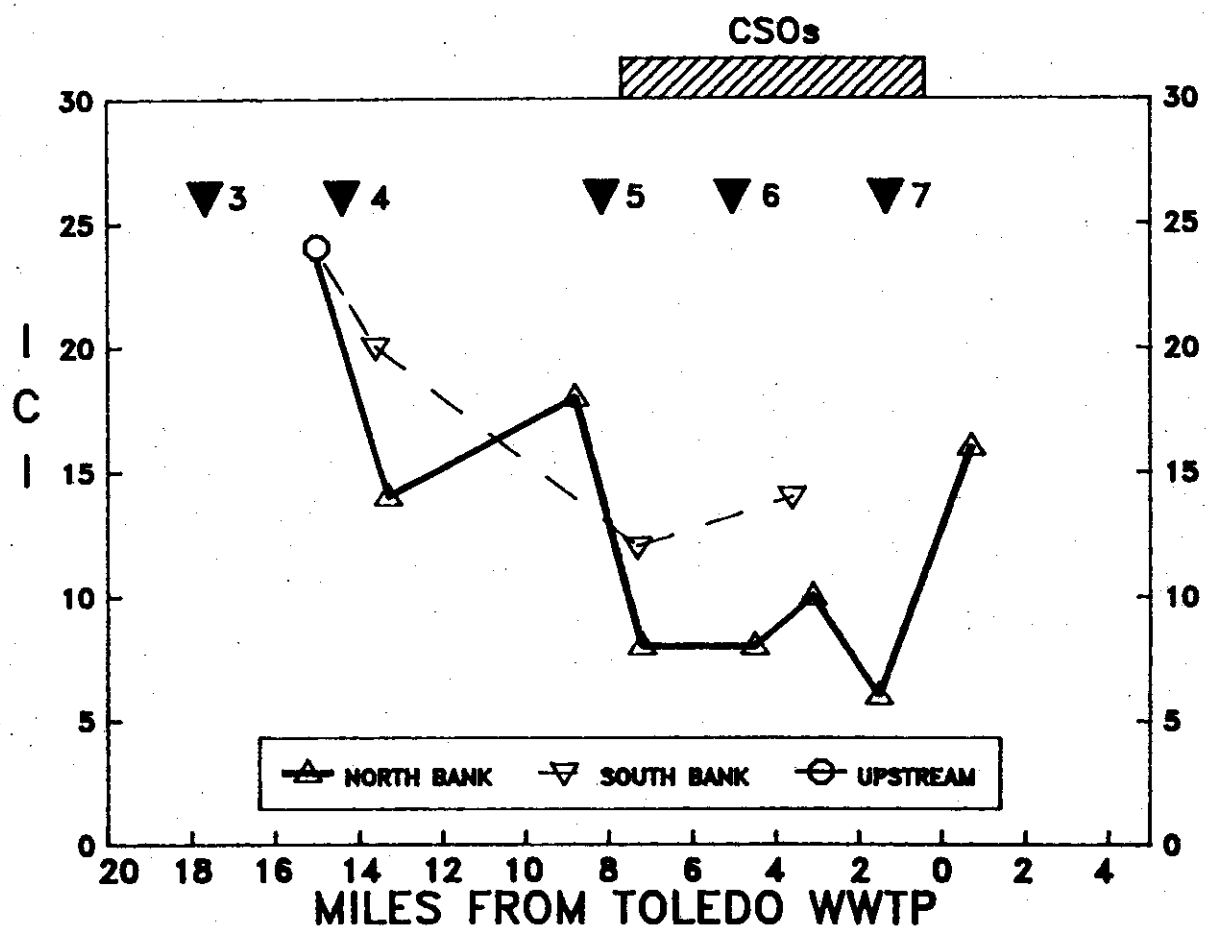


Figure 8. Longitudinal trend of the Invertebrate Community Index (ICI) in the Lower Maumee River mainstem river mouth area, 1986. Sites located along the north shoreline (NORTH) are compared to sites sampled along the south shoreline (SOUTH) in the area of the river affected by the level of Lake Erie.

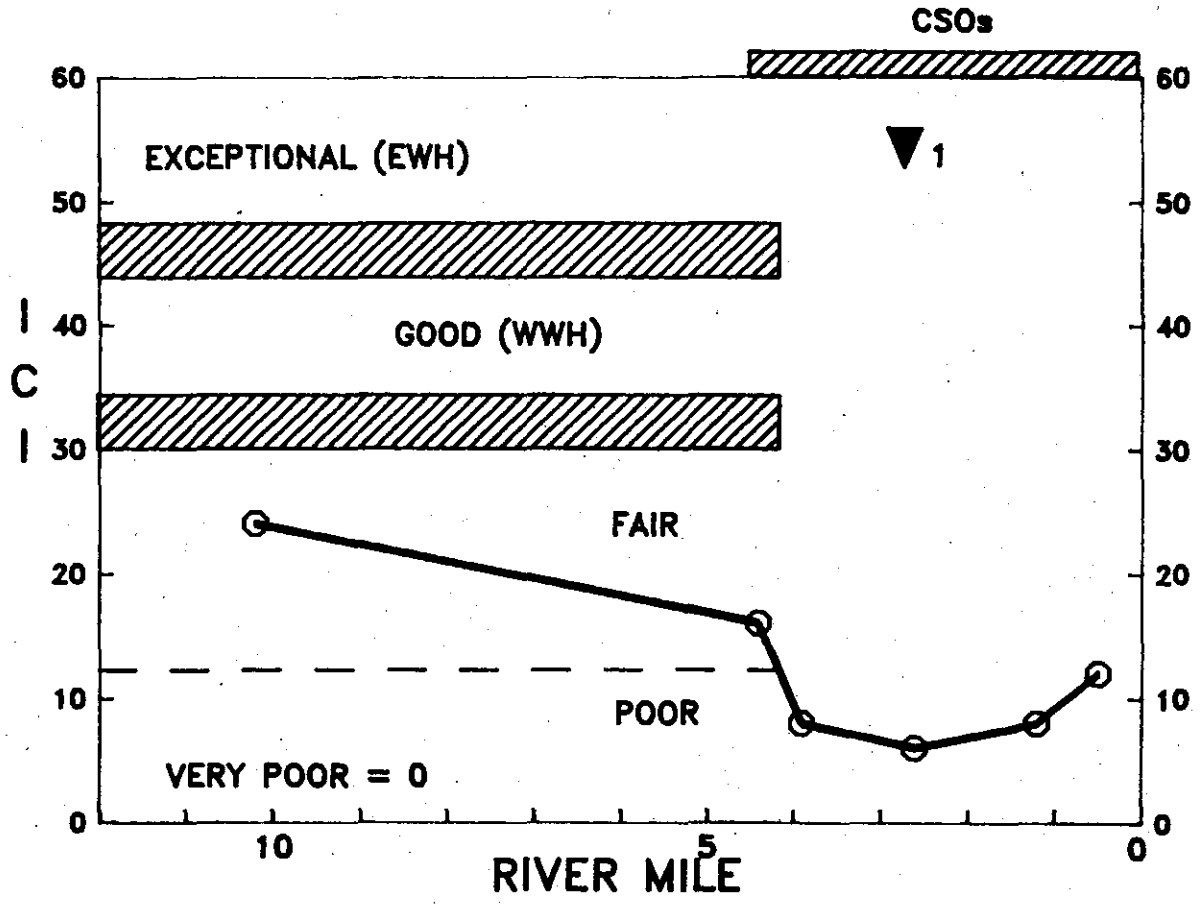


Figure 9. Longitudinal trend of the Invertebrate Community Index (ICI) in Swan Creek, 1986. Shading indicates boundaries between narrative categories based on the insignificant departure range of the ICI (4 ICI units) values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

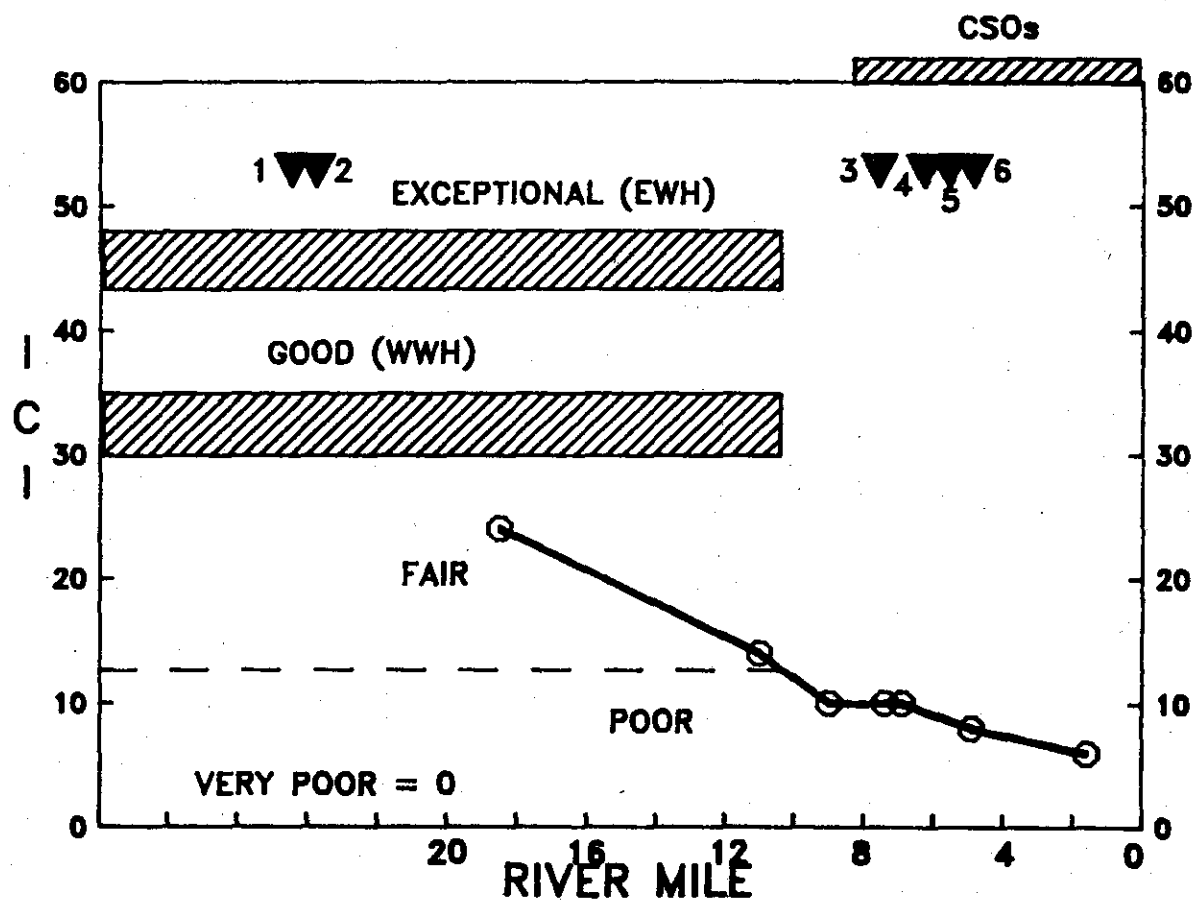


Figure 10. Longitudinal trend of the Invertebrate Community Index (ICI) in the Ottawa River, 1986. Shading indicates boundaries between narrative categories based on the insignificant departure range of the ICI (4 ICI units) values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

Table 9. Summary of fish sampling methods (pulsed D.C. electrofishing) used in the Lower Maumee River study area by the Ohio EPA during June - October, 1986.

Stream Name	Inclusive River Miles	Site Type (Sampler Type)	Number of Sites	Distance Sampled (Km)
Maumee River				
	45.7-0.0	Boat (A,B)	27	40.25
Swan Creek				
	RM 10.2	Wading (D)	1	0.90
	4.4-0.5	Boat (A)	5	7.54
Tenmile Creek				
	5.1-1.0	Wading (D)	3	1.80
Ottawa River				
	17.8-12.2	Wading (D)	2	1.20
	8.9-1.6	Boat (A)	6	8.99
Otter Creek				
	7.2-4.0	Wading (D,E)	3	1.55
	2.0-0.5	Boat (A)	2	1.50
Duck Creek				
	3.0-2.1	Wading (D,E)	2	0.98
	RM 0.5	Boat (A)	1	1.50

Table 10. Mean fish community indices based on 52 electrofishing locations sampled by Ohio EPA in the Lower Maumee River study area during June - October, 1986.

Stream River Mile	Mean No. of Species	Cumulative Species	Mean Relative Number	Mean Relative Weight	Index of Well-Being (Iwb)	Modified Index of Well-Being	Index of Biotic Integrity	QHEI[a]	Narrative Evaluation
Maumee River Mainstem									
45.7	17.0	27	162	51.0	9.0	8.7	39	56	Good
38.5	11.3	18	78	18.0	6.9	6.5*	30[ns]	56	Fair-Good
33.0	11.7	20	107	13.9	6.7	6.5*	25*	58	Fair
31.5	15.0	20	265	82.5	9.2	9.0	33[ns]	70	Good
26.7	17.5	21	647	63.8	8.8	8.6[ns]	32[ns]	82	Good
19.8	17.0	23	616	129.1	9.0	8.5[ns]	27*	79	Good-Fair
17.2	17.0	25	3,163	79.4	8.6	8.1[ns]	28*	64	Good-Fair
14.8	18.0	27	457	87.0	8.2	7.9	30[ns]	71	Good
14.2[c]	7.0	7	68	80.3	7.3	7.1[ns]	26*		Good-Fair
14.1	20.0	33	222	29.4	8.4	8.0	32	61	Good
13.7	13.7	20	217	32.0	7.5	7.1[ns]	25*	62	Good-Fair
9.4	15.8	28	178	26.7	7.6	6.9*	20*	63	Fair-Poor
7.4	13.5	23	263	29.0	7.5	6.4*	23*	64	Fair
7.3	14.8	25	463	117.8	7.8	7.0[ns]	28[ns]	65	Good
4.7	12.7	87	472	23.0	7.8	7.2[ns]	32	46	Good
3.6	12.0	24	234	25.7	7.1	6.3*	23*	61	Fair
3.3	12.3	20	251	24.5	7.2	6.3*	23*	59	Fair
1.5[c]	14.0	17	257	34.4	6.7	5.6*	27*	67	Fair
1.4	10.0	15	181	12.6	6.4	6.1*	27*	67	Fair
0.7	11.0	15	90	20.9	6.8	5.9*	22*	58	Fair
0.6	10.0	14	414	20.0	6.4	5.5*	20*	60	Poor
0.5	11.5	15	253	39.7	6.9	5.9*	25*	64	Fair
0.4	16.7	23	292	51.5	7.7	6.7*	29[ns]	56	Fair-Good
0.3	11.7	18	309	162.6	7.8	6.2*	21*	59	Fair-Poor
0.2	14.3	24	146	39.2	7.2	5.8*	23*	58	Fair
0.1	7.7	15	132	2.1	4.9	4.4*	19*	49	Poor
0.0	6.0	10	504	7.4	5.9	5.4*	21*	63	Poor
Swan Creek									
10.2	13.0	19	127	110.0	6.8	5.6*	25*	70	Poor
4.4	11.7	20	143	511.0	7.2	5.3*	24*	58	Poor
3.9	9.3	15	94	8.1	5.9	4.6*	15*	57	Poor-V. Poor
2.6	5.3	11	45	16.8	4.1	2.9*	14*	62	Very Poor
1.2	3.3	7	43	16.1	3.4	2.5*	14*	57	Very Poor
0.5	10.3	17	169	24.0	6.3	5.7*	22*	55	Fair

[a] QHEI - Qualitative Habitat Evaluation Index.; [b] less than 0.1 kg.; [c] night electrofishing sample only.

* significant departure from ecoregion biocriteria (or interim L. Erie river mouth criteria); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 IBI and ICI units; 0.5 Iwb units).

Table 10. (continued).

Stream River Mile	Mean No. of Species	Cumulative Species	Mean Relative Number	Mean Relative Weight	Index of Well-Being (Iwb)	Modified Index of Well-Being	Index of Biotic Integrity	QHEI[a]	Narrative Evaluation
Tenmile Creek									
5.2	14.3	21	653	15.0	7.8	5.8*	26*	58	Poor
4.2	12.3	15	287	6.0	7.2	5.8*	25*	58	Poor
1.1	11.3	17	495	3.4	7.1	6.3*	29[ns]	74	Fair-Good
Ottawa River									
17.8	12.7	17	943	17.3	7.5	6.1*	23*	73	Poor
9.8	7.3	12	180	3.6	5.3	3.0*	23*	61	V. Poor-Poor
8.7	12.0	17	295	39.0	6.9	4.8*	16*	44	Very Poor
7.4	10.3	18	257	40.9	6.6	5.1*	14*	50	Poor-V. Poor
6.4	8.7	17	198	20.8	5.9	4.0*	17*	57	Poor
5.4	6.0	10	190	9.6	5.2	3.7*	15*	47	Very Poor
4.7	9.7	17	370	62.7	6.6	3.8*	15*	57	Very Poor
1.8	19.0	24	650	81.0	8.2	6.8*	25*	53	Fair
Otter Creek									
7.2	0.7	2	2.5	[b]	0.4	N/A	12*	35	Very Poor
5.7	0.7	2	1.7	[b]	0.3	N/A	12*	46	Very Poor
4.0	0.0	0	0.0	0.0	0.0	N/A	12*	43	Very Poor
2.1	0.3	1	1.2	0.2	8.6	0.0*	12*	35	Very Poor
0.5	1.0	1	2.0	0.8	8.2	0.4*	13*	47	Very Poor
Duck Creek									
3.0	33(0.7)	7	255.7	0.5	3.6	N/A	22*	34	Very Poor
2.1	4.3	9	407.6	1.2	3.0	N/A	15*	41	Very Poor
0.4	12.3	20	160.0	18.8	6.9	5.9*	34[ns]	44	Fair-Good

Huron Erie Lake Plain (HELP) - Biocriteria for Fish:

	IBI	Modified Iwb
Boat Sites	34	8.6
Wading Sites	32	7.5
Lake Erie Affected Sites	32	7.5

[a] QHEI - Qualitative Habitat Evaluation Index.; [b] less than 0.1 kg.; [c] night electrofishing sample only.

* significant departure from ecoregion biocriteria (or interim L. Erie river mouth criteria); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 IBI and ICI units; 0.5 Iwb units).

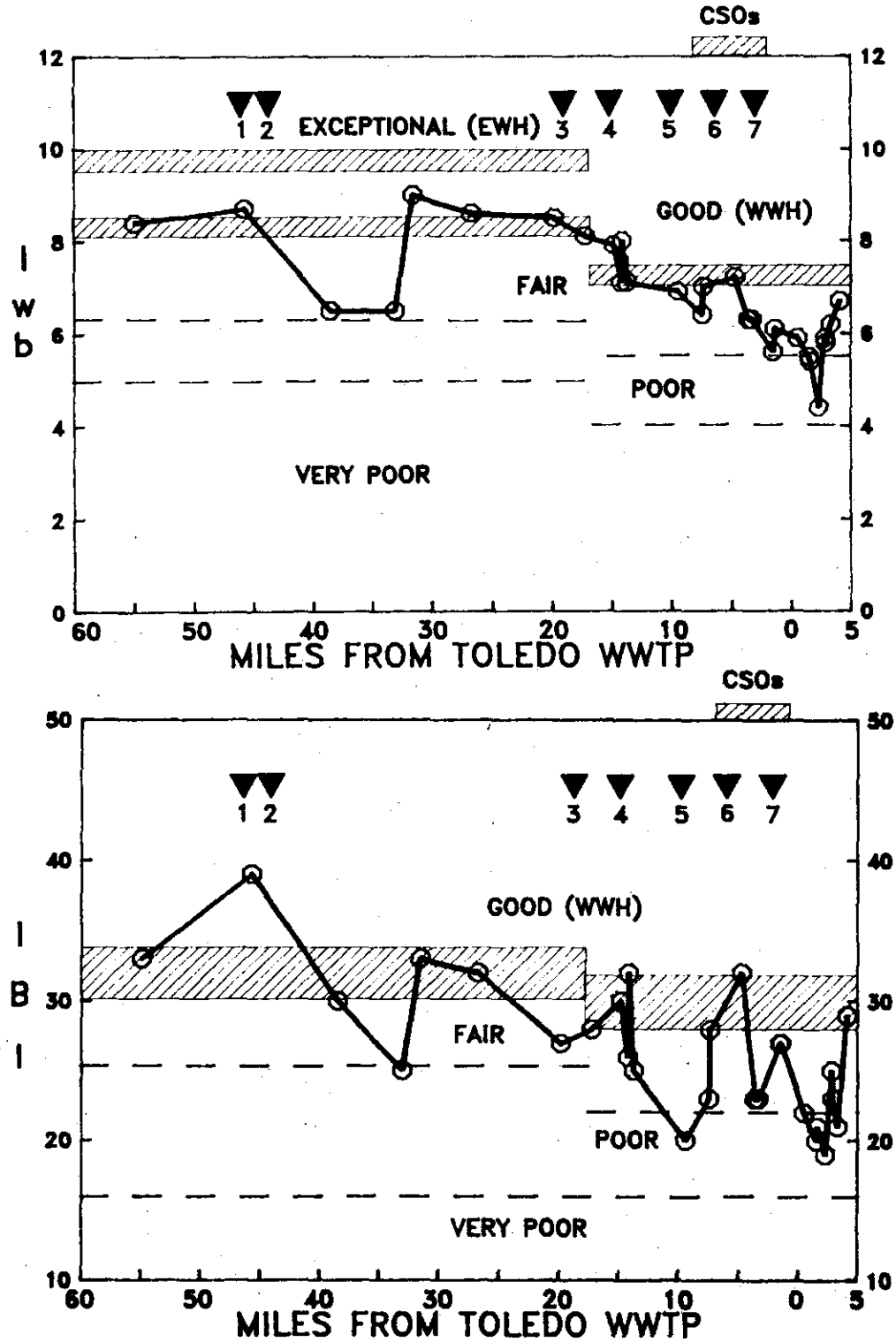


Figure 11. Longitudinal trend of the Modified Index of Well-Being (Iwb) and the Index of Biotic Integrity (IBI) at 27 sites in the lower Maumee River mainstem and Maumee Bay based on pulsed D.C. electrofishing collections during June-October, 1986. Shading indicates boundaries between these areas based on the insignificant departure range of each index (4 IBI units, 0.5 Iwb units). Values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

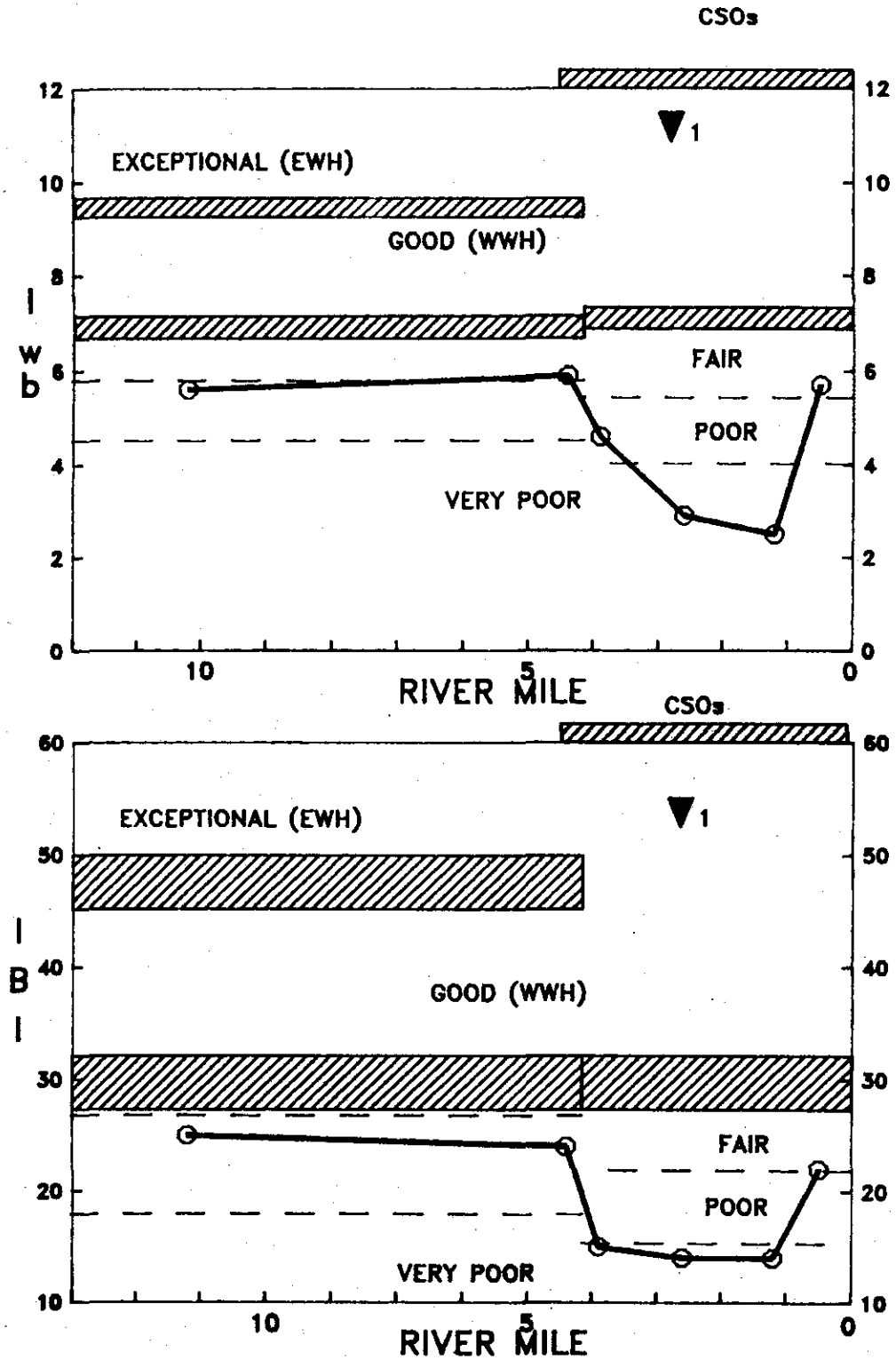


Figure 12. Longitudinal trend of the Modified Index of Well-Being (Iwb) and the Index of Biotic Integrity (IBI) in Swan Creek based on pulsed D.C. electrofishing collections during June-October, 1986. Shading indicates boundaries between these areas based on the insignificant departure range of each index (4 IBI units, 0.5 Iwb units). Values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

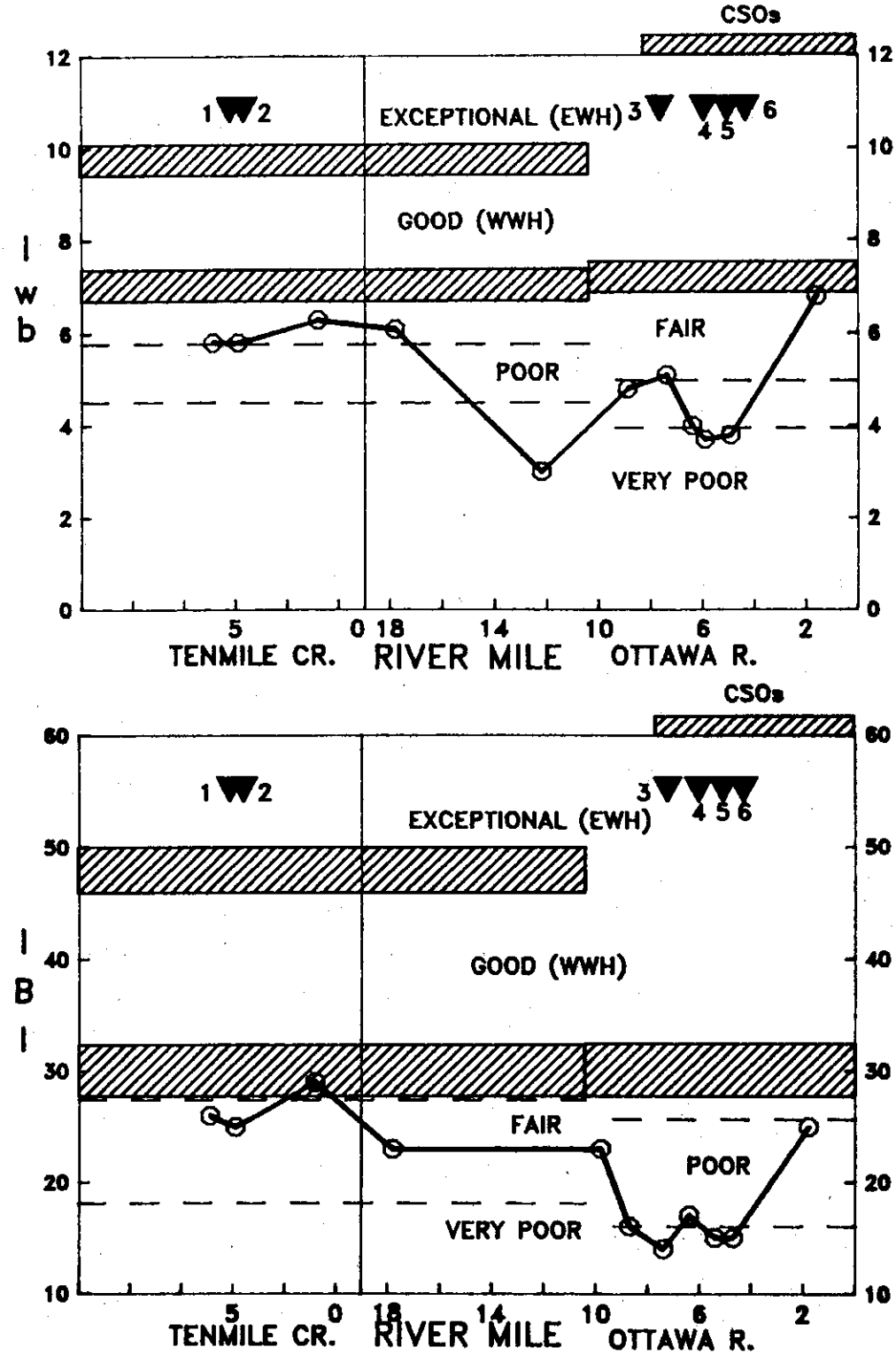


Figure 13. Longitudinal trend of the Modified Index of Well-Being (Iwb) and the Index of Biotic Integrity (IBI) in Tenmile Creek and the Ottawa River based on pulsed D.C. electrofishing collections during June-October, 1986. Shading indicates boundaries between these areas based on the insignificant departure range of each index (4 IBI units, 0.5 Iwb units). Values falling below the WWH (good) range do not attain the WWH aquatic life use designation.

Table 11. Results of analysis for total PCB (ppm) in fish collected from the lower Maumee River study area, 1977-1986.

Species	Year	River/Stream (RM)	Sample Type	Total PCB (ppm)'
Rock bass	1985	Maumee R. (20.6)	WBC	0.5
Carp	1985	Maumee R. (20.6)	WBC	1.0
Carp	1985	Maumee R. (20.6)	WBC	0.2
Carp	1978	Maumee R. (20.6)	WBC	0.3
Green Sunfish	1986	Maumee R. (4.6)	WBC	3.9
Yellow Perch	1986	Maumee R. (0.7)	WBC	4.0
Carp	1986	Maumee R. (0.7)	WBC	6.8
Carp	1985	Maumee R. (0.7)	WBC	3.0
Bluegill	1985	Maumee R. (0.7)	WBC	1.0
Carp	1978	Maumee R. (0.7)	WBC	4.8
White perch	1986	Maumee R. (0.0)	WBC	7.0
Channel catfish	1986	Maumee R. (0.0)	Fillet	3.8
Carp	1986	Maumee R. (0.0)	WBC	5.5
Carp	1982	Maumee R. (0.0)	WBC	11.5
Spottail shiner	1979*	Maumee R. (0.0)	WBC	3.3
Spottail shiner	1979*	Maumee R. (0.0)	WBC	2.9
Northern pike	1979*	Maumee R. (0.0)	WBC	4.9
Northern pike	1979*	Maumee R. (0.0)	WBC	4.9
Carp	1979	Maumee R. (0.0)	WBC	5.9
Yellow perch	1979	Maumee R. (0.0)	WBC	2.1
Carp/catfish	1976	Maumee R. (0.0)	WBC	5.4
Carp	1986	Swan Cr. (0.5)	WBC	5.9
Carp	1986	Tenmile Cr. (4.1)	WBC	6.8
Carp	1986	Ottawa R. (4.9)	WBC	15.1
Largemouth bass	1986	Ottawa R. (1.6)	WBC	12.0
Carp	1986	Ottawa R. (1.6)	WBC	25.4

* duplicate sample analysis.
WBC whole body composite sample.

Table 12. Summary of biological use attainment status for all sampling locations in the Lower Maumee River study area, 1986 (fish results from RM 54.9 are from 1984). Attainment status follows guidance in Ohio EPA (1987c).

Stream River Mile Fish/Invert.	IBI	Mod. Iwb	ICI	QHEI	WWH Attainment Status	Comments
Maumee River Mainstem						
54.9/54.9	33^{ns}	8.4^{ns}	52		FULL	EWH for ICI
/52.3			48		FULL	EWH for ICI
45.7/44.2	39	8.7	26^{a}	56	FULL	ICI in dam pool effect
38.5/	30^{ns}	6.5*		56	PARTIAL	Grand Rapids dam pool
33.0/34.8	25*	6.5*	28^{a}	58	NON	Grand Rapids dam pool
31.5/32.1	33^{ns}	9.0	42	70	FULL	
26.7/25.1	32^{ns}	8.6	52	82	FULL	
19.8/20.9	27*	8.5^{ns}	54	79	PARTIAL	
17.2/	28^{ns}	8.1		64	FULL	L. Erie influence begins
14.8/15.0	30^{ns}	7.9	24^{b}	71	FULL	Ust. Perrysburg
14.2/	26*	7.1^{ns}			PARTIAL	Dst. Perrysburg
14.1/13.6S	32	8.0	20^{b}	61	FULL	Dst. Perrysburg
13.7/13.3N	25*	7.1^{ns}	14^{b}	62	PARTIAL	
9.4/ 8.8N	20*	6.9*	18^{b}	63	NON	
7.4/ 7.3S	23*	6.4*	12^{b}	64	NON	Dst. LOF; elevated As
7.3/ 7.2N	28^{ns}	7.0^{ns}	8^{b}	65	PARTIAL	N. Shore (rip-rap, sea wall)
4.7/ 4.7N	32	7.2^{ns}	8^{b}	46	FULL	Ship channel; CSOs enter
3.6/ 3.6S	23*	6.3*	10^{b}	61	NON	
3.3/ 3.1N	23*	6.3*	10^{b}	59	NON	Low D.O.
1.5/ 1.5N	27*	5.6*	6^{b}	67	NON	Elevated NH_3-N
1.4/	27*	6.1*		67	NON	Dst. Toledo WWTP
0.7/ 0.7N	22*	5.9*	16^{b}	58	NON	
0.6/	20*	5.5*		60	NON	
0.5/	25*	5.9*		64	NON	Elevated NH_3-N, Zn
0.4/	29^{ns}	6.7*		56	PARTIAL	
0.3/	21*	6.2*		59	NON	
0.2/	23*	5.8*		58	NON	Elevated NH_3-N, Zn
0.1/	19*	4.4*		49	NON	Bayshore EGS intake channel
0.0/	21*	5.4*		63	NON	

* significant departure from ecoregion biocriteria (or interim L. Erie river mouth criteria); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 IBI and ICI units; 0.5 Iwb units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

Table 12. (continued).

Stream River Mile Fish/Invert.	IBI	Mod. Iwb	ICI	QHEI	WWH Attainment Status	Comments
Swan Creek						
21.6/	30[ns]				FULL	1984 sampling data.
10.2/10.2	25*	5.6*	24*	70	NON	Good habitat; NPS impacts
4.4/ 4.4	24*	5.9*	16*	58	NON	Impoundment habitat
3.9/ 3.9	15*	4.6*	8[b]	57	NON	L. Erie influence
2.6/ 2.6	14*	2.9*	6[b]	62	NON	Creosote discharge via CSO
1.2/ 1.2	14*	2.5*	8[b]	57	NON	Creosote/CSO impacts
0.5/ 0.6	22*	5.7*	12[b]	55	NON	Dilution by Maumee R.
Tenmile Creek						
5.1/ 5.1	26*	5.8*	F/MG	58	NON	Septic discharge noted
4.1/ 4.1	25*	5.8*	F/MG	58	NON	Dst. Kings Rd. landfill
1.0/ 1.0	29[ns]	6.3*	MG	74	PARTIAL	Good habitat
Ottawa River						
17.8/18.5	23*	6.1*	24*	73	NON	Good habitat; NPS impacts
9.8/11.0	23*	3.0*	14*	61	NON	Sewage odor evident
8.7/ 9.0	16*	4.8*	10[b]	44	NON	CSOs enter; paint spill
7.4/ 7.4	14*	5.1*	10[b]	50	NON	Dst. AMC Jeep via CSO
6.4/ 6.9	17*	4.0*	10[b]	57	NON	
5.4/ 5.9	15*	3.7*		47	NON	Dst. Diversitech General
4.7/ 4.9	15*	3.8*	8[b]	57	NON	Dst. landfills
1.8/ 1.6	25*	6.8*	6[b]	53	NON	Dilution from Maumee Bay
Duck Creek						
3.0/ 3.0	22*	N/A	4*	34	NON	Poor habitat
2.1/ 2.1	15*	N/A	10[b]	41	NON	Dst. Acme ash ponds
0.5/ 0.5	34	5.9*	10[b]	44	PARTIAL	Dilution from Maumee R.

* significant departure from ecoregion biocriteria (or interim L. Erie river mouth criteria); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 IBI and ICI units; 0.5 Iwb units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

Table 12. (continued).

Stream River Mile Fish/Invert.	IBI	Mod. Iwb	ICI	QHEI	WWH Attainment Status	Comments
Otter Creek						
7.2/	12*	N/A	F	35	NON	Poor habitat
5.8/ 6.0	12*	N/A	0*	46	NON	Dst. LOF; As very high
4.0/ 4.0	12*	N/A	0*	43	NON	Dst. Sun Oil
2.0/ 2.0	12*	0.0*	0[b]	35	NON	
0.5/ 0.5	13*	0.4*	2[b]	47	NON	BP America thermal impact
Cedar Creek						
/20.8		N/A	34		FULL	Similar size to Otter Cr.

ECOREGIONAL BIOCRITERIA

Macroinvertebrates:

Huron/Erie Lake Plain ICI criteria: EWH = 48, WWH = 34

Fish Community:

Huron Erie Lake Plain (HELP) - Biocriteria for Fish:

	IBI	Modified Iwb
Boat Sites	34	8.6
Wading Sites	32	7.5
L. Erie Affected Sites	32	7.5

* significant departure from ecoregion biocriteria (or interim L. Erie river mouth criteria); underlined values represent poor and very poor conditions.

ns non significant departure from ecoregion biocriteria (4 IBI and ICI units; 0.5 Iwb units).

a no interim ICI criteria have been developed for impoundments; narrative evaluations and use attainment status are based on best professional judgement and comparison to similar locations throughout Ohio.

b no ICI criteria have been developed for Lake Erie river mouth areas; narrative evaluations and use attainment status are based on best professional judgement and comparison to other Lake Erie river mouth areas.

RECOMMENDATIONS FOR FUTURE MONITORING

As a result of this survey the following recommendations are made for future water quality and biological monitoring in the Lower Maumee River study area.

1. The frequency of significant detections of arsenic in the lower Maumee River and two tributaries (Otter and Duck Creeks) raises some concern over the extent of the contamination in both surface and ground waters. This needs further investigation with emphasis on possible human health implications.

2. The number of detections of PAH derivitives in the sediments of Swan Creek and the lower portion of the Maumee River also raises concerns about further aquatic life impacts and non-aquatic life implications. The extent of the existing problem needs to be quantified and potential sources of the contamination identified and controlled.

3. A repeat of this or portions of this survey should be undertaken following upgrades to various wastewater treatment facilities and other sources of impairment (CSOs, landfills) providing that sufficient time for recovery is allowed prior to sampling.

4. Fish tissue sampling should be expanded to include edible portions of those species most likely to be consumed. This should provide a partial basis for any consumption advisories.

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APPENDIX H

Toxic Pollutant Listing
1987 Clean Water Act, §307

APPENDIX H

[Section 307(a)(1) of the Clean Water Act of 1987 refers to the list of toxic pollutants published in Table 1 of Committee Print Number 95-30 of the House Committee of Public Works and Transportation. Following is the text of Table 1:]

SECTION 307
TABLE 1: TOXIC POLLUTANTS

Acenaphthene
Acrolein
Acrylonitrile
Aldrin/Dieldrin
Antimony and compounds*
Arsenic and compounds
Asbestos
Benzene
Benzidine
Beryllium and compounds
Cadmium and compounds
Carbon tetrachloride
Chlordane (technical mixture & metabolites)
Chlorinated benzenes (other than dichlorobenzenes)
Chlorinated ethanes (including 1,2 - dichloroethane, 1,1,1 - trichloroethane, and hexachloroethane)
Chloroalkyl ethers (chloromethyl, chloroethyl, and mixed ethers)
Chlorinated naphthalene
Chlorinated phenols (other than those listed elsewhere; includes trichlorophenois and chlorinated cresols)
Chloroform
2-chlorophenol
Chromium and compounds
Copper and compounds
Cyanides
DDT and metabolites
Dichlorobenzenes (u,2-, 1,3-, and 1,4-dichlorobenzenes)
Dichlorobenzidine
Dichloroethylenes (1,1- and 1,2-dichloroethylene)
2,4-dimethylphenol
Dinitrotoluene
Diphenylhydrazine
Endosulfan and metabolites
Endrin and metabolites
Ethylbenzene
Flouranthene
Haloethers (other than those listed elsewhere; includes chlorophenyl-phenyl ethers, bromophenylphenyl ether, bis(dischloroisopropyl) ether, bis-(chloroethoxy)methane and polychlorinated diphenyl ethers)
Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromide, bromoform, dichlorobromomethane, trichlorofluoromethane, dichlorodifluoromethane)

APPENDIX H continued

Heptachlor and metabolites
Hexachlorobutadiene
Hexachlorocyclohexane (all isomers)
Hexachlorocyclopentadiene
Isophorone
Lead and compounds
Mercury and compounds
Naphthalene
Nickel and compounds
Nitrobenzene
Nitrophenols (including 2,4-dinitrophenol) dinitrocresol)
Nitrosamines
Pentachlorophenol
Phenol
Phthalate esters
Polychlorinated biphenyls (PCSs)
Polynuclear aromatic hydrocarbons (including benzathracenes, benzopyrenes, benzofluoranthene, chrysenes, dibenzathracenes, and indenopyrenes)
Selenium and compounds
Silver and compounds
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
Tetrachloroethylene
Thallium and compounds
Toluene
Toxaphene
Trichloroethylene
Vinyl Chloride
Zinc and compounds

APPENDIX I

NPDES Permit Violations, 1987-1988

APPENDIX I
NPDES PERMIT VIOLATIONS
In the Lower Maumee RAP Area
1987 - 1988

The following Appendix lists violations of NPDES Permits in the RAP Area for 1987 and most of 1988. The listing is grouped by effluent parameter for each outfall of each NPDES Permit.

There are five columns of violations data: the Average Quantity, the Maximum Quantity, the Minimum Concentration, the Average Concentration, and the Maximum Concentration. Under each of these there may or may not be a limitation set in the NPDES permit, depending on the parameter. For example, for pH both maximum and minimum "concentration" limitations are normally set. There may not be a limit based on the average, and "quantity" is not applicable. For BOD_5, there are normally maximum concentration and quantity limits, while for Dissolved Oxygen, the limit is based on minimum concentration.

These data are included as violations because the limit was exceeded in <u>at least</u> one column, <u>but not necessarily in all five</u>. Where there are no applicable effluent limitations, the space is left blank. Where no data was reported, "0" is printed.

The units of the effluent data are shown. Total quantities are in kg/day, and most concentrations are in mg/l or µg/l. "SU" stands for "Standard Units." This abbreviation is used for pH (refers to the standard pH scale of 0 to 14), and for bacteria, which are measured in organisms per 100 ml of water. Very high bacterial counts are often reported as "TNTC," or "too numerous to count." Such cases are given here as 1,000,000. Water temperatures are given as ° Fahrenheit or ° Celsius.

As an example of how to read the table:

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	Discharge Date	Name of Discharger	Effluent Parameter	Avg Quantity Limit, kg/day	Max Quantity Limit, kg/day	Concentration Limits in µg/l: Minimum	Average	Maximum	Number of Violations
2IG00003	02/28/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	5	0 µg/l	91 µg/l	497 µg/l	
				Avg Quantity Discharged	Max Quantity Discharged	Concentrations Discharged, µg/l: Minimum	Average	Maximum	

NPDES Number; Outfall Number

In this example, violations have occurred in both the **maximum quantity** and the **maximum concentration.**

* Subsubtotal * = Number of violations of this specific effluent parameter at this outfall.
** Subtotal ** = Total number of violations of all parameters at all outfalls for this permit.
*** Total *** = Grand total of violations for all permits.

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 2IB00000									
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2IB00000	05/31/87	Toledo Edison, Bayshore Plant	Fecal Coliform				1000 SU	2000 SU	1
	604			0	0	0 SU	5000 SU	5000 SU	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PH									
2IB00000	04/30/87	Toledo Edison, Bayshore Plant	pH			6 SU		9 SU	1
	003			0	0	6 SU	0 SU	10 SU	
2IB00000	05/31/88	Toledo Edison, Bayshore Plant	pH			6 SU		9 SU	1
	003			0	0	6 SU	0 SU	9 SU	
2IB00000	06/30/88	Toledo Edison, Bayshore Plant	pH			6 SU		9 SU	1
	003			0	0	6 SU	0 SU	10 SU	
* Subsubtotal *									3
** Subtotal **									4
** VIOLATIONS FOR NPDES: 2IB00001									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2IB00001	10/31/87	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
	001			5	45	0 mg/l	0 mg/l	0 mg/l	
2IB00001	12/31/87	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
	001			10	58	0 mg/l	0	0 mg/l	
2IB00001	02/29/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
	001			20	91	0 mg/l	0 mg/l	0 mg/l	
2IB00001	05/31/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
	001			2	29	0 mg/l	0 mg/l	0 mg/l	
2IB00001	06/30/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
	001			52	91	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IB00001	06/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	466	0 mg/l	0 mg/l	0 mg/l	
2IB00001	09/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	579	0 mg/l	0 mg/l	0 mg/l	
2IB00001	11/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	1022	0 mg/l	0 mg/l	0 mg/l	
2IB00001	12/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	534	0 mg/l	0 mg/l	0 mg/l	
2IB00001	01/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	568	0 mg/l	0 mg/l	0 mg/l	
2IB00001	02/29/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	806	0 mg/l	0 mg/l	0 mg/l	
2IB00001	03/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	659	0 mg/l	0 mg/l	0 mg/l	
2IB00001	04/30/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	806	0 mg/l	0 mg/l	0 mg/l	
2IB00001	05/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1
	010			0	500	0 mg/l	0 mg/l	0 mg/l	
2IB00001	06/30/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2IB00001	010 07/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	375	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	010 01/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	318	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 02/28/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	749	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 03/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	511	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 04/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	488	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 05/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	397	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 06/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	261	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 07/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	534	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 08/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	522	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 09/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	318	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 10/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	954	0 mg/l	0 mg/l	0 mg/l	1
	011			0	693	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									21
** Subtotal **									26
** VIOLATIONS FOR NPDES: 2ID00011									
* VIOLATIONS FOR PARAMETER: PH									
2ID00011	05/31/87	Koppers Company, Inc.	pH				7 SU	9 SU	1
	001			0	0	0 SU	6 SU	7 SU	
2ID00011	06/30/87	Koppers Company, Inc.	pH				7 SU	9 SU	1
	001			0	0	0 SU	6 SU	7 SU	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: TEMPERATURE, FAHRENHEIT									
2ID00011	04/30/87	Koppers Company, Inc.	Temperature, Fahrenheit					15 °F	1
	001			0	0	0 °F	0 °F	16 °F	
* Subsubtotal *									1
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2IF00016									
* VIOLATIONS FOR PARAMETER: TEMPERATURE, CELSIUS									
2IF00016	01/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	55 °C	
2IF00016	02/29/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	56 °C	
2IF00016	03/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	49 °C	
2IF00016	04/30/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	21 °C	
2IF00016	06/30/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	23 °C	

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2IF00016	07/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	001			0	0	0 °C	0 °C	22 °C	
2IF00016	01/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	002			0	0	0 °C	0 °C	56 °C	
2IF00016	02/29/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	002			0	0	0 °C	0 °C	60 °C	
2IF00016	07/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius					20 °C	1
	002			0	0	0 °C	0 °C	25 °C	
* Subsubtotal *									
									9
** Subtotal **									
									9
** VIOLATIONS FOR NPDES: 2IF00017									
* VIOLATIONS FOR PARAMETER: TEMPERATURE, CELSIUS									
2IF00017	08/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius				15 °C	20 °C	1
	001			0	0	0 °C	13 °C	22 °C	
* Subsubtotal *									
									1
** Subtotal **									
									1
** VIOLATIONS FOR NPDES: 2IG00003									
* VIOLATIONS FOR PARAMETER: BOD 5									
2IG00003	05/31/87	Sun Refining & Marketing Co.	BOD 5	305	568				1
	001			291	730	0 mg/l	0 mg/l	0 mg/l	
2IG00003	06/30/87	Sun Refining & Marketing Co.	BOD 5	305	568				1
	001			357	1172	0 mg/l	0 mg/l	0 mg/l	
2IG00003	03/31/88	Sun Refining & Marketing Co.	BOD 5	305	568				1
	001			564	945	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									
									3
* VIOLATIONS FOR PARAMETER: COD									
2IG00003	06/30/87	Sun Refining & Marketing Co.	COD	1820	3410				1
	001			1940	7336	0 mg/l	0 mg/l	0 mg/l	
2IG00003	03/31/88	Sun Refining & Marketing Co.	COD	1820	3410				1
	001			2280	6225	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									
									2
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
2IG00003	02/29/88	Sun Refining & Marketing Co.	Oil and Grease	146	273		10 mg/l	20 mg/l	1
	001			62	189	0 mg/l	7 mg/l	22 mg/l	
* Subsubtotal *									
									1
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2IG00003	04/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	4 mg/l	7 mg/l	0 mg/l	
2IG00003	05/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	4 mg/l	6 mg/l	0 mg/l	
2IG00003	06/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	4 mg/l	6 mg/l	0 mg/l	
2IG00003	07/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	4 mg/l	6 mg/l	0 mg/l	
2IG00003	08/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	4 mg/l	6 mg/l	0 mg/l	
2IG00003	09/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	4 mg/l	7 mg/l	0 mg/l	
2IG00003	03/31/88	Sun Refining & Marketing Co.	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									7
* VIOLATIONS FOR PARAMETER: PH									
2IG00003	03/31/88	Sun Refining & Marketing Co.	pH			6 SU		9 SU	1
	001			0	0	7 SU	0 SU	10 SU	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2IG00003	02/28/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	5	0 µg/l	91 µg/l	497 µg/l	
2IG00003	06/30/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			2	13	0 µg/l	226 µg/l	1320 µg/l	
2IG00003	10/31/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	3	0 µg/l	82 µg/l	330 µg/l	
2IG00003	12/31/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	4	0 µg/l	82 µg/l	378 µg/l	
2IG00003	01/31/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	3	0 µg/l	95 µg/l	262 µg/l	
2IG00003	02/28/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			1	4	0 µg/l	127 µg/l	476 µg/l	
2IG00003	03/31/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			9	41	0 µg/l	877 µg/l	4495 µg/l	
2IG00003	05/31/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			0	2	0 µg/l	90 µg/l	401 µg/l	
2IG00003	06/30/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
	001			0	3	0 µg/l	117 µg/l	821 µg/l	
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: SULFIDE, TOTAL									
2IG00003	03/31/88	Sun Refining & Marketing Co.	Sulfide, Total	3	6				1
	001			3	8	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									1
** Subtotal **									24
** VIOLATIONS FOR NPDES: 2IG00007									
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2IG00007	04/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	6 mg/l	7 mg/l	0 mg/l	
2IG00007	05/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	6 mg/l	7 mg/l	0 mg/l	
2IG00007	06/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	6 mg/l	7 mg/l	0 mg/l	
2IG00007	07/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	6 mg/l	6 mg/l	0 mg/l	
2IG00007	08/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	6 mg/l	6 mg/l	0 mg/l	
2IG00007	09/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	002			0	0	6 mg/l	6 mg/l	0 mg/l	
2IG00007	07/31/88	Standard Oil Co., Ohio	Oxygen, Dissolved			4 mg/l	5 mg/l		1
	002			0	0	4 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									7
** Subtotal **									7
** VIOLATIONS FOR NPDES: 2IH00093									
* VIOLATIONS FOR PARAMETER: BOD 5									
2IH00093	09/30/87	General Mills, Inc.	BOD 5					45 mg/l	1
	001			0	0	0 mg/l	56 mg/l	56 mg/l	
2IH00093	04/30/88	General Mills, Inc.	BOD 5					45 mg/l	1
	001			0	0	0 mg/l	25 mg/l	48 mg/l	
2IH00093	05/31/88	General Mills, Inc.	BOD 5					45 mg/l	1
	001			0	0	0 mg/l	70 mg/l	110 mg/l	
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: PH									
2IH00093	05/31/87	General Mills, Inc.	pH			6 SU		9 SU	1
	001			0	0	6 SU	0 SU	6 SU	
2IH00093	09/30/87	General Mills, Inc.	pH			6 SU		9 SU	1
	001			0	0	5 SU	0 SU	5 SU	
2IH00093	10/31/87	General Mills, Inc.	pH			6 SU		9 SU	1
	001			0	0	6 SU	0 SU	6 SU	
2IH00093	05/31/88	General Mills, Inc.	pH			6 SU		9 SU	1
	001			0	0	6 SU	0 SU	7 SU	
* Subsubtotal *									4
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IH00093	05/31/87	General Mills, Inc.	Solids, Total Suspended					45 mg/l	1
	001			0	0	0 mg/l	0 mg/l	56 mg/l	
2IH00093	02/29/88	General Mills, Inc.	Solids, Total Suspended					45 mg/l	1
	001			0	0	0 mg/l	35 mg/l	67 mg/l	
2IH00093	04/30/88	General Mills, Inc.	Solids, Total Suspended					45 mg/l	1
	001			0	0	0 mg/l	33 mg/l	49 mg/l	
* Subsubtotal *									3
** Subtotal **									10
** VIOLATIONS FOR NPDES: 2IJ00039									
* VIOLATIONS FOR PARAMETER: PH									
2IJ00039	06/30/88	The France Stone Company	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	6 SU	
* Subsubtotal *									1
** Subtotal **									1

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** VIOLATIONS FOR NPDES: 2IJ00052									
* VIOLATIONS FOR PARAMETER: PH									
2IJ00052	03/00/00	Stoneco	pH						1
	001			0	0	0 SU	0 SU	0 SU	
* Subsubtotal *									
									1
** Subtotal **									
									1
** VIOLATIONS FOR NPDES: 2IN00013									
* VIOLATIONS FOR PARAMETER: AMMONIA NITROGEN									
2IN00013	01/31/87	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	6 mg/l	6 mg/l	
2IN00013	06/30/88	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	15 mg/l	15 mg/l	
2IN00013	07/31/88	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	13 mg/l	15 mg/l	
* Subsubtotal *									
									3
* VIOLATIONS FOR PARAMETER: PH									
2IN00013	03/31/88	Fondessy Enterprises Inc.	pH			7 SU		9 SU	1
	001			0	0	9 SU	0 SU	9 SU	
2IN00013	03/31/88	Fondessy Enterprises Inc.	pH			7 SU		9 SU	1
	001			0	0	9 SU	0 SU	9 SU	
* Subsubtotal *									
									2
** Subtotal **									
									5
** VIOLATIONS FOR NPDES: 2IN00069									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2IN00069	06/30/87	Liquid Carbonic Corp.	Chlorine, Total Residual				0 mg/l	1 mg/l	1
	601			0	0	5 mg/l	0 mg/l	5 mg/l	
2IN00069	06/30/88	Liquid Carbonic Corp.	Chlorine, Total Residual				0 mg/l	1 mg/l	1
	601			0	0	0 mg/l	4 mg/l	4 mg/l	
* Subsubtotal *									
									2
* VIOLATIONS FOR PARAMETER: PH									
2IN00069	06/30/87	Liquid Carbonic Corp.	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	6 SU	
* Subsubtotal *									
									1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IN00069	03/31/88	Liquid Carbonic Corp.	Solids, Total Suspended					15 mg/l	1
	001			0	0	0 mg/l	0 mg/l	16 mg/l	
2IN00069	06/30/88	Liquid Carbonic Corp.	Solids, Total Suspended					15 mg/l	1
	001			0	0	0 mg/l	0 mg/l	41 mg/l	
* Subsubtotal *									
									2
** Subtotal **									
									5

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** VIOLATIONS FOR NPDES: 2IN00079									
* VIOLATIONS FOR PARAMETER: AMMONIA NITROGEN									
2IN00079	01/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	107 mg/l	138 mg/l	
2IN00079	02/28/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	81 mg/l	120 mg/l	
2IN00079	03/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	120 mg/l	155 mg/l	
2IN00079	04/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	151 mg/l	158 mg/l	
2IN00079	05/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	111 mg/l	137 mg/l	
2IN00079	06/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	103 mg/l	113 mg/l	
2IN00079	07/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	73 mg/l	87 mg/l	
2IN00079	08/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	86 mg/l	102 mg/l	
2IN00079	09/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	107 mg/l	115 mg/l	
2IN00079	10/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	125 mg/l	163 mg/l	
2IN00079	11/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	115 mg/l	162 mg/l	
2IN00079	12/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	61 mg/l	80 mg/l	
2IN00079	01/31/88	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	128 mg/l	128 mg/l	
2IN00079	03/31/88	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	63 mg/l	83 mg/l	
2IN00079	04/30/88	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	67 mg/l	86 mg/l	
2IN00079	05/18/88	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	62 mg/l	71 mg/l	
2IN00079	06/30/88	King Road Sanitary & Landfill	Ammonia Nitrogen				3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	78 mg/l	123 mg/l	
* Subsubtotal *									17
* VIOLATIONS FOR PARAMETER: BOD 5									
2IN00079	01/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	73 mg/l	80 mg/l	
2IN00079	02/28/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	14 mg/l	22 mg/l	
2IN00079	03/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	34 mg/l	40 mg/l	
2IN00079	04/30/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	60 mg/l	83 mg/l	
2IN00079	05/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	63 mg/l	79 mg/l	
2IN00079	06/30/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	71 mg/l	84 mg/l	
2IN00079	07/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	62 mg/l	66 mg/l	
2IN00079	08/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	58 mg/l	68 mg/l	
2IN00079	09/30/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1

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	001			0	0	0 mg/l	67 mg/l	85 mg/l	
2IN00079	10/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	64 mg/l	68 mg/l	
2IN00079	11/30/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	44 mg/l	52 mg/l	
2IN00079	12/31/87	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	60 mg/l	73 mg/l	
2IN00079	01/31/88	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	51 mg/l	51 mg/l	
2IN00079	03/31/88	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	56 mg/l	73 mg/l	
2IN00079	04/30/88	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	25 mg/l	38 mg/l	
2IN00079	05/31/88	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	20 mg/l	29 mg/l	
2IN00079	06/30/88	King Road Sanitary & Landfill	BOD 5				10 mg/l	20 mg/l	1
	001			0	0	0 mg/l	33 mg/l	47 mg/l	
* Subsubtotal *									17
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IN00079	02/28/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	20 mg/l	66 mg/l	
2IN00079	04/30/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	30 mg/l	78 mg/l	
2IN00079	05/31/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	25 mg/l	57 mg/l	
2IN00079	07/31/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	77 mg/l	106 mg/l	
2IN00079	08/31/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	56 mg/l	97 mg/l	
2IN00079	09/30/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	17 mg/l	46 mg/l	
2IN00079	11/30/87	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	68 mg/l	188 mg/l	
2IN00079	03/31/88	King Road Sanitary & Landfill	Solids, Total Suspended				30 mg/l	45 mg/l	1
	001			0	0	0 mg/l	20 mg/l	70 mg/l	
* Subsubtotal *									8
** Subtotal **									42
** VIOLATIONS FOR NPDES: 2I000001									
* VIOLATIONS FOR PARAMETER: COD									
2I000001	01/31/87	Teledyne Industries	COD	14	26		30 mg/l	100 mg/l	1
	001			9	16	0 mg/l	51 mg/l	105 mg/l	
2I000001	07/31/87	Teledyne Industries	COD	14	26		30 mg/l	100 mg/l	1
	001			11	24	0 mg/l	43 mg/l	76 mg/l	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
2I000001	06/30/88	Teledyne Industries	Oil and Grease, Total				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	18 mg/l	45 mg/l	
* Subsubtotal *									1
** Subtotal **									

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									3
** VIOLATIONS FOR NPDES: 2IQ00012									
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
2IQ00012	03/31/87 001	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 18 mg/l	1
2IQ00012	04/30/87 001	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 59 mg/l	1
2IQ00012	05/31/87 001	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 20 mg/l	1
2IQ00012	02/29/88 001	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 11 mg/l	1
2IQ00012	04/30/87 002	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 14 mg/l	1
2IQ00012	08/31/87 002	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 12 mg/l	1
2IQ00012	10/31/87 002	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 16 mg/l	1
2IQ00012	01/31/88 002	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l 17 mg/l	1
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: PH									
2IQ00012	02/28/87 001	Diversitech General Inc.	pH	0	0	7 SU 6 SU	0 SU	9 SU 6 SU	1
* Subsubtotal *									1
** Subtotal **									9
** VIOLATIONS FOR NPDES: 2IS00008									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2IS00008	06/30/87 002	Reichert Stamping Company	Chlorine, Total Residual	0	0	10 mg/l	2 mg/l 0 mg/l	3 mg/l 10 mg/l	1
2IS00008	07/31/87 002	Reichert Stamping Company	Chlorine, Total Residual	0	0	3 mg/l	2 mg/l 0 mg/l	3 mg/l 3 mg/l	1
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IS00008	02/29/88 002	Reichert Stamping Company	Solids, Total Suspended	0	0	0 mg/l	30 mg/l 35 mg/l	45 mg/l 35 mg/l	1
* Subsubtotal *									1
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2IT00002									
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
2IT00002	06/30/88 002	The Chessie System	Oil and Grease	0	0	0 mg/l	0 mg/l	10 mg/l 15 mg/l	1
2IT00002	06/30/88 004	The Chessie System	Oil and Grease	0	0	0 mg/l	0 mg/l	10 mg/l 14 mg/l	1
* Subsubtotal *									2

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* VIOLATIONS FOR PARAMETER: PH									
2IT00002	12/31/87	The Chessie System	pH			7 SU		9 SU	1
	002			0	0	6 SU	0 SU	7 SU	
2IT00002	12/31/87	The Chessie System	pH			7 SU		9 SU	1
	004			0	0	6 SU	0 SU	7 SU	
* Subsubtotal *									2
** Subtotal **									4
** VIOLATIONS FOR NPDES: 2IT00013									
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
2IT00013	05/31/88	The Chessie System	Oil and Grease, Total					10 mg/l	1
	003			0	0	0 mg/l	0 mg/l	12 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PH									
2IT00013	12/31/87	The Chessie System	pH			7 SU		9 SU	1
	003			0	0	6 SU	0 SU	6 SU	
2IT00013	12/31/87	The Chessie System	pH			7 SU		9 SU	1
	004			0	0	6 SU	0 SU	6 SU	
2IT00013	05/31/88	The Chessie System	pH			7 SU		9 SU	1
	004			0	0	6 SU	0 SU	6 SU	
2IT00013	06/30/88	The Chessie System	pH			7 SU		9 SU	1
	004			0	0	6 SU	0 SU	6 SU	
2IT00013	12/31/87	The Chessie System	pH			7 SU		9 SU	1
	005			0	0	6 SU	0 SU	6 SU	
2IT00013	06/30/88	The Chessie System	pH			7 SU		9 SU	1
	005			0	0	6 SU	0 SU	6 SU	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IT00013	04/30/88	The Chessie System	Solids, Total Suspended		0				1
	004			0	1	0 mg/l	0 mg/l	0 mg/l	
2IT00013	07/31/88	The Chessie System	Solids, Total Suspended		0				1
	004			0	0	0 mg/l	0 mg/l	0 mg/l	
2IT00013	06/30/88	The Chessie System	Solids, Total Suspended					45 mg/l	1
	005			0	0	0 mg/l	0 mg/l	2440 mg/l	
* Subsubtotal *									3
** Subtotal **									10
** VIOLATIONS FOR NPDES: 2IW00010									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IW00010	01/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13593 mg/l	14230 mg/l	
2IW00010	02/28/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13760 mg/l	14100 mg/l	
2IW00010	03/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13415 mg/l	14100 mg/l	
2IW00010	04/30/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13216 mg/l	13570 mg/l	
2IW00010	05/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	0 mg/l	13213 mg/l	13670 mg/l	
2IW00010	06/30/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13395 mg/l	13700 mg/l	
2IW00010	07/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13243 mg/l	13870 mg/l	
2IW00010	08/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13228 mg/l	13560 mg/l	
2IW00010	09/30/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13078 mg/l	13650 mg/l	
2IW00010	10/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	42965 mg/l	13245 mg/l	
2IW00010	11/30/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13158 mg/l	13590 mg/l	
2IW00010	12/31/87	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13082 mg/l	13750 mg/l	
2IW00010	01/31/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13125 mg/l	13680 mg/l	
2IW00010	02/29/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13235 mg/l	13690 mg/l	
2IW00010	03/31/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	12992 mg/l	13790 mg/l	
2IW00010	04/30/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13035 mg/l	13300 mg/l	
2IW00010	05/31/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13270 mg/l	13890 mg/l	
2IW00010	06/30/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13295 mg/l	13590 mg/l	
2IW00010	07/31/88	Bowling Green Water Plant	Solids, Total Suspended				15 mg/l	20 mg/l	1
	001			0	0	0 mg/l	13355 mg/l	13970 mg/l	
* Subsubtotal *									
									19
** Subtotal **									
									19
** VIOLATIONS FOR NPDES: 2PA00026									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PA00026	03/31/87	Village of Haskins	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			3	4	0 mg/l	11 mg/l	18 mg/l	
2PA00026	07/31/87	Village of Haskins	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			3	10	0 mg/l	4 mg/l	7 mg/l	
* Subsubtotal *									
									2
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PA00026	05/31/88	Village of Haskins	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	1000000 SU	
* Subsubtotal *									
									1
* VIOLATIONS FOR PARAMETER: PH									
2PA00026	05/31/87	Village of Haskins	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	7 SU	
* Subsubtotal *									
									1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PA00026	07/31/87	Village of Haskins	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			3	10	0 mg/l	4 mg/l	7 mg/l	
* Subsubtotal *									1
** Subtotal **									5
** VIOLATIONS FOR NPDES: 2PB00007									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PB00007	01/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			56	75	0 mg/l	36 mg/l	45 mg/l	
2PB00007	02/28/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	69	0 mg/l	46 mg/l	60 mg/l	
2PB00007	03/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			67	80	0 mg/l	42 mg/l	52 mg/l	
2PB00007	04/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			62	84	0 mg/l	27 mg/l	33 mg/l	
2PB00007	05/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			49	58	0 mg/l	39 mg/l	42 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			28	51	0 mg/l	18 mg/l	26 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	51	0 mg/l	10 mg/l	24 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	72	0 mg/l	8 mg/l	20 mg/l	
2PB00007	09/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			54	81	0 mg/l	47 mg/l	70 mg/l	
2PB00007	11/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			69	436	0 mg/l	61 mg/l	367 mg/l	
2PB00007	12/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	67	0 mg/l	25 mg/l	28 mg/l	
2PB00007	01/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			44	64	0 mg/l	32 mg/l	45 mg/l	
2PB00007	02/29/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			46	63	0 mg/l	29 mg/l	38 mg/l	
2PB00007	03/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			61	176	0 mg/l	32 mg/l	67 mg/l	
2PB00007	04/30/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			45	70	0 mg/l	29 mg/l	37 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PB00007	05/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	440 mg/l	
2PB00007	06/30/88	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PB00007	05/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	0 SU	588695 SU	349428 SU	
2PB00007	06/30/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	1000000 SU	
2PB00007	07/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2365 SU	189736 SU	
2PB00007	08/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	3961 SU	69282 SU	
2PB00007	09/30/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	439364 SU	4300002 SU	
2PB00007	10/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	180 SU	7007 SU	
2PB00007	05/31/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	4255 SU	36660 SU	
2PB00007	06/30/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	706 SU	3072 SU	
2PB00007	07/31/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	340 SU	2549 SU	
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PB00007	01/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			45	106	0 mg/l	29 mg/l	38 mg/l	
2PB00007	02/28/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			40	47	0 mg/l	28 mg/l	39 mg/l	
2PB00007	03/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			82	107	0 mg/l	42 mg/l	53 mg/l	
2PB00007	04/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			68	136	0 mg/l	26 mg/l	38 mg/l	
2PB00007	05/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			44	61	0 mg/l	30 mg/l	36 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			59	166	0 mg/l	30 mg/l	57 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			10	30	0 mg/l	7 mg/l	15 mg/l	
2PB00007	09/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			28	37	0 mg/l	24 mg/l	29 mg/l	
2PB00007	10/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			17	43	0 mg/l	16 mg/l	27 mg/l	
2PB00007	11/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			98	391	0 mg/l	82 mg/l	331 mg/l	
2PB00007	12/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			72	189	0 mg/l	22 mg/l	37 mg/l	
2PB00007	01/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			54	119	0 mg/l	33 mg/l	52 mg/l	
2PB00007	02/29/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			58	112	0 mg/l	32 mg/l	64 mg/l	
2PB00007	03/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			26	47	0 mg/l	15 mg/l	17 mg/l	
2PB00007	04/30/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			33	52	0 mg/l	23 mg/l	26 mg/l	
* Subsubtotal *									15
** Subtotal **									44

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			3	10	0 mg/l	4 mg/l	7 mg/l	
* Subsubtotal *									1
** Subtotal **									5
** VIOLATIONS FOR NPDES: 2PB00007									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PB00007	01/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			56	75	0 mg/l	36 mg/l	45 mg/l	
2PB00007	02/28/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	69	0 mg/l	46 mg/l	60 mg/l	
2PB00007	03/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			67	80	0 mg/l	42 mg/l	52 mg/l	
2PB00007	04/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			62	84	0 mg/l	27 mg/l	33 mg/l	
2PB00007	05/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			49	58	0 mg/l	39 mg/l	42 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			28	51	0 mg/l	18 mg/l	26 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	51	0 mg/l	10 mg/l	24 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	72	0 mg/l	8 mg/l	20 mg/l	
2PB00007	09/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			54	81	0 mg/l	47 mg/l	70 mg/l	
2PB00007	11/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			69	436	0 mg/l	61 mg/l	367 mg/l	
2PB00007	12/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	67	0 mg/l	25 mg/l	28 mg/l	
2PB00007	01/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			44	64	0 mg/l	32 mg/l	45 mg/l	
2PB00007	02/29/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			46	63	0 mg/l	29 mg/l	38 mg/l	
2PB00007	03/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			61	176	0 mg/l	32 mg/l	67 mg/l	
2PB00007	04/30/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			45	70	0 mg/l	29 mg/l	37 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PB00007	05/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	440 mg/l	
2PB00007	06/30/88	South Shore Park WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PB00007	05/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	0 SU	588695 SU	349428 SU	
2PB00007	06/30/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	1000000 SU	
2PB00007	07/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2365 SU	189736 SU	
2PB00007	08/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	3961 SU	69282 SU	
2PB00007	09/30/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	439364 SU	4300002 SU	
2PB00007	10/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	180 SU	7007 SU	
2PB00007	05/31/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	4255 SU	36660 SU	
2PB00007	06/30/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	706 SU	3072 SU	
2PB00007	07/31/88	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	340 SU	2549 SU	
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PB00007	01/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			45	106	0 mg/l	29 mg/l	38 mg/l	
2PB00007	02/28/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			40	47	0 mg/l	28 mg/l	39 mg/l	
2PB00007	03/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			82	107	0 mg/l	42 mg/l	53 mg/l	
2PB00007	04/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			68	136	0 mg/l	26 mg/l	38 mg/l	
2PB00007	05/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			44	61	0 mg/l	30 mg/l	36 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			59	166	0 mg/l	30 mg/l	57 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			10	30	0 mg/l	7 mg/l	15 mg/l	
2PB00007	09/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			28	37	0 mg/l	24 mg/l	29 mg/l	
2PB00007	10/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			17	43	0 mg/l	16 mg/l	27 mg/l	
2PB00007	11/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			98	391	0 mg/l	82 mg/l	331 mg/l	
2PB00007	12/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			72	189	0 mg/l	22 mg/l	37 mg/l	
2PB00007	01/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			54	119	0 mg/l	33 mg/l	52 mg/l	
2PB00007	02/29/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			58	112	0 mg/l	32 mg/l	64 mg/l	
2PB00007	03/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			26	47	0 mg/l	15 mg/l	17 mg/l	
2PB00007	04/30/88	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
	001			33	52	0 mg/l	23 mg/l	26 mg/l	
* Subsubtotal *									15
** Subtotal **									44

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 2PB00062									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PB00062	05/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			41	47	0 mg/l	41 mg/l	48 mg/l	
2PB00062	06/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			42	61	0 mg/l	36 mg/l	42 mg/l	
2PB00062	08/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			40	53	0 mg/l	34 mg/l	37 mg/l	
2PB00062	09/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			34	38	0 mg/l	36 mg/l	38 mg/l	
2PB00062	10/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			30	42	0 mg/l	37 mg/l	44 mg/l	
2PB00062	11/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			22	24	0 mg/l	36 mg/l	36 mg/l	
2PB00062	12/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			44	60	0 mg/l	33 mg/l	39 mg/l	
2PB00062	01/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			30	33	0 mg/l	33 mg/l	35 mg/l	
2PB00062	02/29/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			43	56	0 mg/l	31 mg/l	34 mg/l	
2PB00062	03/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			49	56	0 mg/l	38 mg/l	42 mg/l	
2PB00062	04/30/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			434	54	0 mg/l	35 mg/l	39 mg/l	
2PB00062	05/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			44	54	0 mg/l	35 mg/l	39 mg/l	
2PB00062	05/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			49	50	0 mg/l	43 mg/l	44 mg/l	
2PB00062	06/30/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			28	33	0 mg/l	45 mg/l	48 mg/l	
2PB00062	07/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			42	45	0 mg/l	42 mg/l	46 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PB00062	05/31/87	Village of Whitehouse	Chlorine, Total Residual					1 mg/l	1
	001			0	0	1 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PB00062	05/31/87	Village of Whitehouse	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PB00062	06/30/87	Village of Whitehouse	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PB00062	07/31/87	Village of Whitehouse	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PB00062	09/30/87	Village of Whitehouse	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PB00062	10/31/87	Village of Whitehouse	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PB00062	05/31/87	Village of Whitehouse	Solids, Total Suspended	40	60		30 mg/l	45 mg/l	1
	001			39	45	0 mg/l	39 mg/l	42 mg/l	

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PB00062	06/30/87 001	Village of Whitehouse	Solids, Total Suspended	40 43	60 67	0 mg/l	30 mg/l 37 mg/l	45 mg/l 45 mg/l	1
2PB00062	07/31/87 001	Village of Whitehouse	Solids, Total Suspended	40 33	60 51	0 mg/l	30 mg/l 32 mg/l	45 mg/l 34 mg/l	1
2PB00062	08/31/87 001	Village of Whitehouse	Solids, Total Suspended	40 41	60 52	0 mg/l	30 mg/l 34 mg/l	45 mg/l 37 mg/l	1
2PB00062	09/30/87 001	Village of Whitehouse	Solids, Total Suspended	40 36	60 41	0 mg/l	30 mg/l 39 mg/l	45 mg/l 41 mg/l	1
2PB00062	10/31/87 001	Village of Whitehouse	Solids, Total Suspended	40 26	60 33	0 mg/l	30 mg/l 33 mg/l	45 mg/l 43 mg/l	1
2PB00062	11/30/87 001	Village of Whitehouse	Solids, Total Suspended	40 23	60 24	0 mg/l	30 mg/l 37 mg/l	45 mg/l 40 mg/l	1
2PB00062	12/31/87 001	Village of Whitehouse	Solids, Total Suspended	40 40	60 46	0 mg/l	30 mg/l 31 mg/l	45 mg/l 39 mg/l	1
2PB00062	01/31/88 001	Village of Whitehouse	Solids, Total Suspended	40 30	60 38	0 mg/l	30 mg/l 32 mg/l	45 mg/l 37 mg/l	1
2PB00062	02/29/88 001	Village of Whitehouse	Solids, Total Suspended	40 43	60 58	0 mg/l	30 mg/l 31 mg/l	45 mg/l 32 mg/l	1
2PB00062	03/31/88 001	Village of Whitehouse	Solids, Total Suspended	40 49	60 68	0 mg/l	30 mg/l 37 mg/l	45 mg/l 42 mg/l	1
2PB00062	04/30/88 001	Village of Whitehouse	Solids, Total Suspended	40 43	60 55	0 mg/l	30 mg/l 35 mg/l	45 mg/l 41 mg/l	1
2PB00062	05/31/88 001	Village of Whitehouse	Solids, Total Suspended	40 48	60 49	0 mg/l	30 mg/l 42 mg/l	45 mg/l 45 mg/l	1
2PB00062	06/30/88 001	Village of Whitehouse	Solids, Total Suspended	40 29	60 34	0 mg/l	30 mg/l 46 mg/l	45 mg/l 48 mg/l	1
2PB00062	07/31/88 001	Village of Whitehouse	Solids, Total Suspended	40 39	60 48	0 mg/l	30 mg/l 38 mg/l	45 mg/l 44 mg/l	1
* Subsubtotal *									15
** Subtotal **									36
** VIOLATIONS FOR NPDES: 2PD00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PD00002	04/30/87 001	Perrysburg, City of	BOD 5	522 565	678 687	1 mg/l	50 mg/l 44 mg/l	65 mg/l 60 mg/l	1
2PD00002	05/31/87 001	Perrysburg, City of	BOD 5	522 570	678 633	1 mg/l	50 mg/l 53 mg/l	65 mg/l 72 mg/l	1
2PD00002	08/31/87 001	Perrysburg, City of	BOD 5	522 585	678 1256	1 mg/l	50 mg/l 56 mg/l	65 mg/l 94 mg/l	1
2PD00002	09/30/87 001	Perrysburg, City of	BOD 5	522 504	678 640	0 mg/l	50 mg/l 56 mg/l	65 mg/l 77 mg/l	1
2PD00002	10/31/87 001	Perrysburg, City of	BOD 5	522 478	678 543	0 mg/l	50 mg/l 56 mg/l	65 mg/l 63 mg/l	1
2PD00002	11/30/87 001	Perrysburg, City of	BOD 5	522 437	678 893	0 mg/l	50 mg/l 43 mg/l	65 mg/l 86 mg/l	1
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PD00002	01/31/87 001	Perrysburg, City of	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 1 mg/l	1
2PD00002	05/31/87 001	Perrysburg, City of	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 1 mg/l	1
2PD00002	06/30/87 001	Perrysburg, City of	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 1 mg/l	1

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2PD00002	01/31/88	Perrysburg, City of	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									4
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PD00002	02/28/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	3156 SU	9794 SU	
2PD00002	03/31/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PD00002	04/30/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PD00002	05/31/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1287 SU	1978 SU	
2PD00002	06/30/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	523 SU	5023 SU	
2PD00002	10/31/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	82 SU	4071 SU	
2PD00002	12/31/87	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2522 SU	21037 SU	
2PD00002	02/29/88	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2670 SU	11505 SU	
2PD00002	03/31/88	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2301 SU	2672 SU	
2PD00002	04/30/88	Perrysburg, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1686 SU	10993 SU	
* Subsubtotal *									10
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
2PD00002	02/28/87	Perrysburg, City of	Oil and Grease					5 mg/l	1
	001			0	0	0 mg/l	0 mg/l	6 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PD00002	07/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			8	13	0 mg/l	1 mg/l	2 mg/l	
2PD00002	01/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			26	35	0 mg/l	2 mg/l	3 mg/l	
2PD00002	02/28/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			24	39	0 mg/l	2 mg/l	3 mg/l	
2PD00002	03/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			31	34	0 mg/l	2 mg/l	3 mg/l	
2PD00002	04/30/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			24	33	0 mg/l	2 mg/l	3 mg/l	
2PD00002	05/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			36	48	0 mg/l	3 mg/l	4 mg/l	
2PD00002	06/30/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			11	16	0 mg/l	1 mg/l	1 mg/l	
2PD00002	07/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			18	36	0 mg/l	2 mg/l	2 mg/l	
2PD00002	08/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			32	95	0 mg/l	3 mg/l	6 mg/l	
2PD00002	09/30/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			30	58	0 mg/l	3 mg/l	5 mg/l	
2PD00002	10/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			17	37	0 mg/l	2 mg/l	3 mg/l	

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2PD00002	11/30/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			32	61	0 mg/l	3 mg/l	6 mg/l	
2PD00002	12/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			26	41	0 mg/l	1 mg/l	2 mg/l	
2PD00002	01/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			28	42	0 mg/l	2 mg/l	3 mg/l	
2PD00002	02/29/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			26	36	0 mg/l	2 mg/l	2 mg/l	
2PD00002	03/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			18	21	0 mg/l	1 mg/l	2 mg/l	
2PD00002	04/30/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			23	38	0 mg/l	2 mg/l	2 mg/l	
2PD00002	05/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			35	48	0 mg/l	4 mg/l	6 mg/l	
2PD00002	06/30/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			20	26	0 mg/l	3 mg/l	3 mg/l	
* Subsubtotal *									
									19
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PD00002	01/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			491	927	0 mg/l	43 mg/l	58 mg/l	
2PD00002	02/28/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			440	1051	0 mg/l	33 mg/l	74 mg/l	
2PD00002	03/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			772	1161	0 mg/l	56 mg/l	80 mg/l	
2PD00002	04/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			413	826	0 mg/l	28 mg/l	42 mg/l	
2PD00002	05/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			700	1091	0 mg/l	59 mg/l	76 mg/l	
2PD00002	06/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			459	779	0 mg/l	38 mg/l	65 mg/l	
2PD00002	08/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			721	2270	0 mg/l	57 mg/l	146 mg/l	
2PD00002	09/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			737	1236	0 mg/l	80 mg/l	99 mg/l	
2PD00002	11/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			467	1548	0 mg/l	42 mg/l	141 mg/l	
2PD00002	01/31/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			437	1106	0 mg/l	28 mg/l	65 mg/l	
2PD00002	02/29/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			427	850	0 mg/l	25 mg/l	47 mg/l	
2PD00002	04/30/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			267	735	0 mg/l	18 mg/l	44 mg/l	
2PD00002	05/31/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			538	830	0 mg/l	63 mg/l	97 mg/l	
* Subsubtotal *									
									13
** Subtotal **									
									53
** VIOLATIONS FOR NPDES: 2PD00035									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PD00035	05/31/87	DuPont Road WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									
									1

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* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PD00035	07/31/87	DuPont Road WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PD00035	08/31/87	DuPont Road WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2PD00035	04/30/87	DuPont Road WWTP	Phenolics, Total					27 µg/l	1
	001			0	0	0 µg/l	0 µg/l	60 µg/l	
2PD00035	06/30/88	DuPont Road WWTP	Phenolics, Total					27 µg/l	1
	001			0	0	0 µg/l	0 µg/l	110 µg/l	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PD00035	07/31/87	DuPont Road WWTP	Phosphorus, Total	31	46		1 mg/l	2 mg/l	1
	001			15	26	0 mg/l	1 mg/l	1 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PD00035	06/30/87	DuPont Road WWTP	Solids, Total Suspended	607	910		20 mg/l	30 mg/l	1
	001			254	381	0 mg/l	15 mg/l	33 mg/l	
* Subsubtotal *									1
** Subtotal **									7
** VIOLATIONS FOR NPDES: 2PF00000									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PF00000	01/31/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			13201	13446	0 mg/l	49 mg/l	55 mg/l	
2PF00000	02/29/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			19232	27425	0 mg/l	53 mg/l	66 mg/l	
2PF00000	03/31/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			15442	23800	0 mg/l	40 mg/l	63 mg/l	
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PF00000	04/30/87	Toledo, City of	Chlorine, Total Residual					1 mg/l	1
	001			0	0	21 mg/l	0 mg/l	149 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PF00000	04/30/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	05/31/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	06/30/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	07/31/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	08/31/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	09/30/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	10/31/87	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	04/30/88	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	05/31/88	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
2PF00000	07/31/88	Toledo, City of	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1000000 SU	100000000 SU	
* Subsubtotal *									10
* VIOLATIONS FOR PARAMETER: MERCURY, AS HG									
2PF00000	07/31/88	Toledo, City of	Mercury, as Hg					0 µg/l	1
	001			0	0	0 µg/l	0 µg/l	1 µg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PH									
2PF00000	02/29/88	Toledo, City of	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	8 SU	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2PF00000	07/31/88	Toledo, City of	Phenolics, Total					16 µg/l	1
	001			0	0	0 µg/l	0 µg/l	41 µg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PF00000	01/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			252	523	0 mg/l	1 mg/l	2 mg/l	
2PF00000	02/28/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			314	451	0 mg/l	1 mg/l	2 mg/l	
2PF00000	03/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			540	803	0 mg/l	2 mg/l	2 mg/l	
2PF00000	04/30/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			267	785	0 mg/l	1 mg/l	2 mg/l	
2PF00000	06/30/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			423	659	0 mg/l	1 mg/l	3 mg/l	
2PF00000	07/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			399	613	0 mg/l	2 mg/l	3 mg/l	
2PF00000	08/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			502	665	0 mg/l	2 mg/l	3 mg/l	
2PF00000	09/30/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			424	649	0 mg/l	2 mg/l	3 mg/l	
2PF00000	10/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			228	393	0 mg/l	1 mg/l	1 mg/l	
2PF00000	12/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			512	933	0 mg/l	1 mg/l	2 mg/l	
2PF00000	01/31/88	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			440	484	0 mg/l	2 mg/l	2 mg/l	
2PF00000	02/29/88	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			529	849	0 mg/l	1 mg/l	2 mg/l	
2PF00000	03/31/88	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			492	798	0 mg/l	1 mg/l	2 mg/l	
2PF00000	05/31/88	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			218	413	0 mg/l	1 mg/l	2 mg/l	
2PF00000	06/30/88	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
	001			281	396	0 mg/l	1 mg/l	2 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PF00000	03/31/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			34359	43934	0 mg/l	110 mg/l	124 mg/l	
2PF00000	04/30/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			20316	57101	0 mg/l	50 mg/l	137 mg/l	
2PF00000	06/30/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			20351	33570	0 mg/l	65 mg/l	134 mg/l	
2PF00000	07/31/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			19112	28208	0 mg/l	77 mg/l	119 mg/l	
2PF00000	08/31/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			18842	22947	0 mg/l	79 mg/l	99 mg/l	
2PF00000	12/31/87	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			23438	43898	0 mg/l	62 mg/l	97 mg/l	
2PF00000	01/31/88	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			21743	22426	0 mg/l	80 mg/l	81 mg/l	
2PF00000	02/29/88	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			30351	57789	0 mg/l	78 mg/l	117 mg/l	
2PF00000	03/31/88	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			34598	42243	0 mg/l	94 mg/l	111 mg/l	
2PF00000	04/30/88	Toledo, City of	Solids, Total Suspended	29569	44354		60 mg/l	90 mg/l	1
	001			20653	28330	0 mg/l	62 mg/l	101 mg/l	
* Subsubtotal *									10
** Subtotal **									42
** VIOLATIONS FOR NPDES: 2PG00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PG00002	01/31/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			63	83	0 mg/l	215 mg/l	300 mg/l	
2PG00002	02/28/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			20	28	0 mg/l	63 mg/l	96 mg/l	
2PG00002	03/31/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			9	12	0 mg/l	27 mg/l	44 mg/l	
2PG00002	04/30/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			73	134	0 mg/l	146 mg/l	300 mg/l	
2PG00002	06/30/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			4	6	0 mg/l	11 mg/l	17 mg/l	
2PG00002	07/31/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			5	10	0 mg/l	11 mg/l	16 mg/l	
2PG00002	10/31/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			7	10	0 mg/l	26 mg/l	34 mg/l	
2PG00002	11/30/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			7	9	0 mg/l	25 mg/l	30 mg/l	
2PG00002	12/31/87	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			5	6	0 mg/l	13 mg/l	13 mg/l	
2PG00002	01/31/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			7	12	0 mg/l	19 mg/l	26 mg/l	
2PG00002	02/29/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1

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	001			12	24	0 mg/l	32 mg/l	77 mg/l	
2PG00002	03/31/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			5	5	0 mg/l	13 mg/l	16 mg/l	
2PG00002	04/30/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			4	6	0 mg/l	12 mg/l	19 mg/l	
2PG00002	05/31/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			11	18	0 mg/l	44 mg/l	70 mg/l	
2PG00002	06/30/88	Lucas County Bentbrook Farms	BOD 5	4	6		18 mg/l	25 mg/l	1
	001			4	3	0 mg/l	24 mg/l	12 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PG00002	05/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PG00002	06/30/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PG00002	07/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PG00002	08/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PG00002	09/30/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PG00002	10/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PG00002	05/31/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	1261 SU	5300 SU	
2PG00002	06/30/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	11994 SU	25800 SU	
2PG00002	07/31/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	1058 SU	370 SU	
2PG00002	08/31/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	993 SU	1600 SU	
2PG00002	09/30/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	1522 SU	13500 SU	
2PG00002	10/31/87	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	146325 SU	292000 SU	
2PG00002	05/31/88	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	10000 SU	10000 SU	
2PG00002	06/30/88	Lucas County Bentbrook Farms	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	10275 SU	34000 SU	
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: FLOW, TOTAL									
2PG00002	10/31/87	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	01/31/88	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	02/29/88	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	03/31/88	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	04/30/88	Lucas County Bentbrook Farms	Flow, Total		0				1

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	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	05/31/88	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PG00002	06/30/88	Lucas County Bentbrook Farms	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
* Subsubtotal *									7
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PG00002	10/31/87	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PG00002	11/30/87	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PG00002	01/31/88	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	5 mg/l	0 mg/l	0 mg/l	
2PG00002	04/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PG00002	05/31/88	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PG00002	06/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PG00002	01/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			67	84	0 mg/l	218 mg/l	252 mg/l	
2PG00002	02/28/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			27	40	0 mg/l	86 mg/l	120 mg/l	
2PG00002	03/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			10	17	0 mg/l	32 mg/l	62 mg/l	
2PG00002	04/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			127	239	0 mg/l	254 mg/l	536 mg/l	
2PG00002	06/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			4	8	0 mg/l	12 mg/l	20 mg/l	
2PG00002	07/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			8	16	0 mg/l	17 mg/l	26 mg/l	
2PG00002	10/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			10	13	0 mg/l	33 mg/l	40 mg/l	
2PG00002	11/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			9	17	0 mg/l	29 mg/l	40 mg/l	
2PG00002	12/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			6	11	0 mg/l	15 mg/l	19 mg/l	
2PG00002	01/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			9	19	0 mg/l	22 mg/l	43 mg/l	
2PG00002	02/29/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			23	46	0 mg/l	61 mg/l	148 mg/l	
2PG00002	03/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			9	8	0 mg/l	24 mg/l	25 mg/l	
2PG00002	04/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			7	10	0 mg/l	20 mg/l	32 mg/l	
2PG00002	05/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			15	26	0 mg/l	60 mg/l	102 mg/l	
2PG00002	06/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
	001			16	2	0 mg/l	92 mg/l	9 mg/l	
* Subsubtotal *									15
** Subtotal **									

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									57
** VIOLATIONS FOR NPDES: 2PH00000									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00000	06/30/88	Fuller's Creekside Estates	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	1 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00000	05/31/88	Fuller's Creekside Estates	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PH00000	06/30/88	Fuller's Creekside Estates	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: PH									
2PH00000	06/30/88	Fuller's Creekside Estates	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	7 SU	
* Subsubtotal *									1
** Subtotal **									4
** VIOLATIONS FOR NPDES: 2PH00004									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00004	01/31/87	Lincoln Green	BOD 5	13	23		20 mg/l	35 mg/l	1
	001			29	43	0 mg/l	45 mg/l	108 mg/l	
2PH00004	02/28/87	Lincoln Green	BOD 5	13	23		20 mg/l	35 mg/l	1
	001			70	268	0 mg/l	154 mg/l	594 mg/l	
2PH00004	04/30/87	Lincoln Green	BOD 5	13	23		20 mg/l	35 mg/l	1
	001			13	55	0 mg/l	27 mg/l	114 mg/l	
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00004	05/31/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00004	06/30/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00004	07/31/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00004	08/31/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00004	09/30/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	3 mg/l	
2PH00004	10/31/87	Lincoln Green	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00004	05/31/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	458 SU	10500 SU	
2PH00004	06/30/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1

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	001			0	0	0 SU	8272 SU	25700 SU	
2PH00004	07/31/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	909 SU	6800 SU	
2PH00004	08/31/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	6095 SU	16100 SU	
2PH00004	09/30/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	24016 SU	46000 SU	
2PH00004	05/31/88	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	6000 SU	6000 SU	
2PH00004	06/30/88	Lincoln Green	Fecal Coliform				200 SU	400 SU	1
	001			0	0	0 SU	24150 SU	90000 SU	
* Subsubtotal *									7
* VIOLATIONS FOR PARAMETER: FLOW, TOTAL									
2PH00004	11/30/87	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PH00004	12/31/87	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PH00004	01/31/88	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PH00004	02/29/88	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PH00004	03/31/88	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
2PH00004	04/30/88	Lincoln Green	Flow, Total		0				1
	001			0	0	0 mgd	0 mgd	0 mgd	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00004	01/31/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			23	55	0 mg/l	44 mg/l	140 mg/l	
2PH00004	02/28/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			29	108	0 mg/l	64 mg/l	240 mg/l	
2PH00004	04/30/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			22	96	0 mg/l	44 mg/l	200 mg/l	
* Subsubtotal *									3
** Subtotal **									25
** VIOLATIONS FOR NPDES: 2PH00013									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00013	01/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			12	21	0 mg/l	35 mg/l	54 mg/l	
2PH00013	02/28/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			12	37	0 mg/l	43 mg/l	126 mg/l	
2PH00013	03/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			7	16	0 mg/l	20 mg/l	41 mg/l	
2PH00013	04/30/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			5	17	0 mg/l	20 mg/l	50 mg/l	
2PH00013	05/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			5	13	0 mg/l	26 mg/l	68 mg/l	
2PH00013	06/30/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			2	4	0 mg/l	12 mg/l	20 mg/l	
2PH00013	08/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1

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	001			2	7	0 mg/l	12 mg/l	31 mg/l	
2PH00013	10/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			3	4	0 mg/l	16 mg/l	24 mg/l	
2PH00013	11/30/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			2	5	0 mg/l	13 mg/l	30 mg/l	
2PH00013	12/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			6	7	0 mg/l	31 mg/l	45 mg/l	
2PH00013	02/29/88	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			2	2	0 mg/l	11 mg/l	14 mg/l	
2PH00013	05/31/88	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			6	12	0 mg/l	34 mg/l	57 mg/l	
2PH00013	06/30/88	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			6	7	0 mg/l	32 mg/l	23 mg/l	
* Subsubtotal *									13
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00013	05/31/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00013	06/30/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00013	07/31/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00013	08/31/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00013	09/30/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00013	10/31/87	Oak Openings Industrial Park	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00013	05/31/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	9402 SU	17000 SU	
2PH00013	06/30/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	23263 SU	97000 SU	
2PH00013	07/31/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	3946 SU	4500 SU	
2PH00013	08/31/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	8878 SU	43200 SU	
2PH00013	09/30/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	7807 SU	24000 SU	
2PH00013	10/31/87	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	54034 SU	167000 SU	
2PH00013	05/31/88	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	130000 SU	130000 SU	
2PH00013	06/30/88	Oak Openings Industrial Park	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	20325 SU	42500 SU	
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00013	01/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00013	02/28/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00013	03/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1

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	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PH00013	04/30/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
2PH00013	05/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
2PH00013	06/30/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00013	07/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00013	08/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00013	09/30/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PH00013	10/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00013	11/30/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PH00013	12/31/87	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PH00013	01/31/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	5 mg/l	0 mg/l	0 mg/l	
2PH00013	02/29/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00013	03/31/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00013	05/31/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00013	06/30/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00013	07/31/88	Oak Openings Industrial Park	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									18
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00013	01/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			12	18	0 mg/l	37 mg/l	60 mg/l	
2PH00013	02/28/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			34	118	0 mg/l	117 mg/l	404 mg/l	
2PH00013	03/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			11	23	0 mg/l	34 mg/l	70 mg/l	
2PH00013	04/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			8	20	0 mg/l	30 mg/l	60 mg/l	
2PH00013	05/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			11	39	0 mg/l	63 mg/l	210 mg/l	
2PH00013	06/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			2	4	0 mg/l	13 mg/l	21 mg/l	
2PH00013	08/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			6	16	0 mg/l	30 mg/l	77 mg/l	
2PH00013	09/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			2	2	0 mg/l	12 mg/l	19 mg/l	
2PH00013	10/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			9	20	0 mg/l	56 mg/l	132 mg/l	
2PH00013	11/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			2	5	0 mg/l	15 mg/l	29 mg/l	
2PH00013	12/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			16	37	0 mg/l	79 mg/l	168 mg/l	
2PH00013	01/31/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1

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	001			3	4	0 mg/l	14 mg/l	19 mg/l	
2PH00013	02/29/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			3	6	0 mg/l	17 mg/l	36 mg/l	
2PH00013	03/31/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			3	5	0 mg/l	15 mg/l	28 mg/l	
2PH00013	04/30/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			3	3	0 mg/l	13 mg/l	15 mg/l	
2PH00013	05/31/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			26	64	0 mg/l	134 mg/l	308 mg/l	
2PH00013	06/30/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
	001			35	45	0 mg/l	174 mg/l	152 mg/l	
* Subsubtotal *									17
** Subtotal **									62
** VIOLATIONS FOR NPDES: 2PH00014									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00014	03/31/87	Oak Terrace	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			13	51	0 mg/l	47 mg/l	180 mg/l	
2PH00014	06/30/87	Oak Terrace	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			3	7	0 mg/l	8 mg/l	17 mg/l	
2PH00014	08/31/87	Oak Terrace	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			14	47	0 mg/l	38 mg/l	128 mg/l	
2PH00014	12/31/87	Oak Terrace	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			39	154	0 mg/l	99 mg/l	384 mg/l	
2PH00014	06/30/88	Oak Terrace	BOD 5	4	6		10 mg/l	15 mg/l	1
	001			9	0	0 mg/l	24 mg/l	1 mg/l	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00014	05/31/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	06/30/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	07/31/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	08/31/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	09/30/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	10/31/87	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	05/31/88	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	06/30/88	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	4 mg/l	
2PH00014	07/31/88	Oak Terrace	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	2 mg/l	
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00014	05/31/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1020 SU	2000 SU	
2PH00014	06/30/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1

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	001			0	0	0 SU	7829 SU	20600 SU	
2PH00014	07/31/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1166 SU	800 SU	
2PH00014	08/31/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1786 SU	106000 SU	
2PH00014	09/30/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1261 SU	5900 SU	
2PH00014	10/31/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	1784 SU	12000 SU	
* Subsubtotal *									6
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00014	01/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
2PH00014	02/28/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
2PH00014	03/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00014	04/30/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
2PH00014	05/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00014	06/30/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00014	07/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00014	08/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00014	09/30/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00014	12/31/87	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	2 mg/l	0 mg/l	0 mg/l	
2PH00014	02/29/88	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	4 mg/l	0 mg/l	0 mg/l	
2PH00014	07/31/88	Oak Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	3 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									12
* VIOLATIONS FOR PARAMETER: PH									
2PH00014	02/28/87	Oak Terrace	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	7 SU	
2PH00014	09/30/87	Oak Terrace	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	8 SU	
2PH00014	10/31/87	Oak Terrace	pH			7 SU		9 SU	1
	001			0	0	6 SU	0 SU	7 SU	
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00014	03/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			37	145	0 mg/l	132 mg/l	510 mg/l	
2PH00014	06/30/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			3	7	0 mg/l	8 mg/l	18 mg/l	
2PH00014	08/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			133	507	0 mg/l	359 mg/l	1368 mg/l	
2PH00014	12/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1

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	001			256	1019	0 mg/l	640 mg/l	2540 mg/l	
2PH00014	02/29/88	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			4	13	0 mg/l	13 mg/l	43 mg/l	
2PH00014	04/30/88	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			4	8	0 mg/l	6 mg/l	10 mg/l	
2PH00014	06/30/88	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			47	2	0 mg/l	120 mg/l	7 mg/l	
* Subsubtotal *									7
** Subtotal **									42
** VIOLATIONS FOR NPDES: 2PK00000									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PK00000	05/31/87	Maumee River WWTP	Chlorine, Total Residual					1 mg/l	1
	001			0	0	0 mg/l	0 mg/l	5 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PK00000	05/31/88	Maumee River WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	253 SU	54327 SU	
2PK00000	06/30/88	Maumee River WWTP	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	267 SU	61111 SU	
* Subsubtotal *									2
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2PS00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PS00002	01/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			6	7	0 mg/l	18 mg/l	20 mg/l	
2PS00002	02/28/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			7	11	0 mg/l	18 mg/l	29 mg/l	
2PS00002	03/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			12	15	0 mg/l	32 mg/l	41 mg/l	
2PS00002	04/30/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			10	13	0 mg/l	27 mg/l	36 mg/l	
2PS00002	05/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			7	12	0 mg/l	20 mg/l	33 mg/l	
2PS00002	06/30/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			13	23	0 mg/l	36 mg/l	67 mg/l	
2PS00002	07/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			10	13	0 mg/l	26 mg/l	34 mg/l	
2PS00002	08/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			6	7	0 mg/l	16 mg/l	19 mg/l	
2PS00002	09/30/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			6	14	0 mg/l	17 mg/l	37 mg/l	
2PS00002	10/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			3	6	0 mg/l	9 mg/l	16 mg/l	
2PS00002	11/30/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			3	5	0 mg/l	9 mg/l	14 mg/l	
2PS00002	12/31/87	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			9	12	0 mg/l	26 mg/l	32 mg/l	
2PS00002	01/31/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			8	10	0 mg/l	21 mg/l	28 mg/l	
2PS00002	02/29/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			8	12	0 mg/l	23 mg/l	32 mg/l	
2PS00002	03/31/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1

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	001			9	13	0 mg/l	25 mg/l	35 mg/l	
2PS00002	04/30/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			9	26	0 mg/l	24 mg/l	70 mg/l	
2PS00002	05/31/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			5	7	0 mg/l	14 mg/l	20 mg/l	
2PS00002	07/31/88	Woodside Terrace	BOD 5	3	5		10 mg/l	15 mg/l	1
	001			3	5	0 mg/l	8 mg/l	14 mg/l	
* Subsubtotal *									18
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PS00002	05/31/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	2907 SU	6000 SU	
2PS00002	06/30/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	14091 SU	50000 SU	
2PS00002	07/31/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	20596 SU	25600 SU	
2PS00002	08/31/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	18886 SU	20175 SU	
2PS00002	09/30/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	13500 SU	17600 SU	
2PS00002	10/31/87	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	3613 SU	12400 SU	
2PS00002	05/31/88	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	17110 SU	23200 SU	
2PS00002	07/31/88	Woodside Terrace	Fecal Coliform				1000 SU	2000 SU	1
	001			0	0	0 SU	15111 SU	19000 SU	
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PS00002	01/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	02/28/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	03/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	04/30/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	05/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	06/30/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	07/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	08/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	09/30/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	10/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	11/30/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	12/31/87	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	01/31/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	02/29/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	1 mg/l	0 mg/l	0 mg/l	
2PS00002	03/31/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	04/30/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	05/31/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
2PS00002	07/31/88	Woodside Terrace	Oxygen, Dissolved			5 mg/l			1
	001			0	0	0 mg/l	0 mg/l	0 mg/l	
* Subsubtotal *									18
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PS00002	01/31/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			12	17	0 mg/l	35 mg/l	48 mg/l	
2PS00002	02/28/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			10	15	0 mg/l	27 mg/l	42 mg/l	
2PS00002	03/30/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			10	15	0 mg/l	28 mg/l	40 mg/l	
2PS00002	04/30/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			7	14	0 mg/l	19 mg/l	38 mg/l	
2PS00002	05/31/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			8	15	0 mg/l	21 mg/l	41 mg/l	
2PS00002	06/30/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			7	9	0 mg/l	20 mg/l	25 mg/l	
2PS00002	08/31/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			7	8	0 mg/l	17 mg/l	21 mg/l	
2PS00002	09/30/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			6	11	0 mg/l	16 mg/l	29 mg/l	
2PS00002	10/31/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			5	9	0 mg/l	14 mg/l	25 mg/l	
2PS00002	11/30/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			5	6	0 mg/l	15 mg/l	17 mg/l	
2PS00002	12/31/87	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			6	9	0 mg/l	16 mg/l	24 mg/l	
2PS00002	01/31/88	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			8	12	0 mg/l	22 mg/l	33 mg/l	
2PS00002	02/29/88	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			7	14	0 mg/l	19 mg/l	39 mg/l	
2PS00002	03/31/88	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			8	13	0 mg/l	22 mg/l	36 mg/l	
2PS00002	04/30/88	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			13	16	0 mg/l	35 mg/l	43 mg/l	
2PS00002	05/31/88	Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
	001			10	18	0 mg/l	27 mg/l	48 mg/l	
* Subsubtotal *									16
** Subtotal **									60
** VIOLATIONS FOR NPDES: 2PY00000									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PY00000	03/31/88	Centennial Manor	Solids, Total Suspended	1			18 mg/l		1
	001			2	0	0 mg/l	37 mg/l	0 mg/l	
* Subsubtotal *									1
** Subtotal **									1
*** Total ***									627

APPENDIX J

Lower Maumee Remedial Action Plan
Water Quality Problem Matrix

LOWER MAUMEE BASIN
REMEDIAL ACTION PLAN

WATER QUALITY PROBLEM MATRIX

The Remedial Action Plan Advisory Committee (RAPAC) and its subcommittees have identified twelve water quality problem areas that affect the streams of the Lower Maumee Basin. These water quality problems are:

POTW	Publicly-Operated Treatment Works (sewage treatment plants)
IND	Industrial waste effluent discharges
URBAN	Runoff from urban areas
CSOs	Combined sewer overflows
HOME	Private sewage systems (septic systems, privies, etc.)
PKG	Package sewage treatment plants
SEDIMENTS	Contaminated stream sediments
ATMOS	Deposition of air-borne pollutants
WTP SLUDGE	Accumulation of Water Treatment Plant (lime) sludge in a stream
AG	Runoff from agricultural land
DUMPS	Dumps; landfills; and pits, ponds, and lagoons.
LUST	Leaking Underground Storage Tanks (e.g., gasoline)
DREDGE	Disposal of material dredged from Toledo Harbor

Each of these water quality problems is being addressed by one of the RAPAC subcommittees; the problem ratings are grouped by subcommittee below. The Agricultural Runoff, Dumps/Landfills, and Dredge Disposal subcommittees are listed under 'other' because each has a single water quality issue to deal with.

Classification of Watersheds are based on the impact of each identified water quality problem. The abbreviations are as follows:

H = High Impact	M = Medium Impact	L = Low Impact
N = No Impact	U = Unknown	S = Suspected, but no data.
HS= Suspected High	MS= Suspected Medium	LS= Suspected Low
US= Unknown, but suspected problem		

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT			
	Public/Industrial	Home Sewage	Wtr Qual/Uses	Others

** BASIN MAUMEE RIVER/BAY

Watershed Name: **DELAWARE CREEK**

TMACOG 013	POTW N	URBAN H	HOME L	SEDIMENTS U	AG N
LRIS 013	IND N	CSOs N	PKG N	ATMOS US	DUMPS HS
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST HS

NOTES

Watershed Name: **MAUMEE RIVER @ ANTHONY WAYNE BR**

TMACOG 013	POTW N	URBAN H	HOME L	SEDIMENTS H	AG H
LRIS 013	IND H	CSOs M	PKG H	ATMOS US	DUMPS M
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST HS

NOTES IND: Conrail 2IT00015

Watershed Name: **MAUMEE RIVER BELOW ANTHONY WAYNE BR**

TMACOG 014	POTW N	URBAN H	HOME L	SEDIMENTS H	AG H
LRIS 014	IND N	CSOs M	PKG N	ATMOS US	DUMPS US
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST HS

NOTES

Watershed Name: **DUCK CREEK**

TMACOG 015	POTW N	URBAN H	HOME L	SEDIMENTS H	AG N
LRIS 015	IND L	CSOs N	PKG N	ATMOS US	DUMPS H
PEMSO 410133				WTP SLUDGE L	DREDGE N
					LUST HS

NOTES urbanized

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses			Others		

** BASIN MAUMEE RIVER/BAY

Watershed Name: **MAUMEE RIVER @ MOUTH**

TMACOG	015	POTW	H	URBAN	H	HOME	L	SEDIMENTS	H	AG	H
LRIS	015	IND	M	CSOs	M	PKG	N	ATMOS	US	DUMPS	H
PEMSO	410133							WTP SLUDGE	N	DREDGE	M
										LUST	HS

NOTES SEDIMENTS: PAHs.
Consaul St. Dump
POTW: Toledo Bay View WWTP = H
IND: Toledo Edison Acme (2IB00001) M, Toledo Coke (2ID00011) L

Watershed Name: **SHANTEE CREEK**

TMACOG	020	POTW	N	URBAN	H	HOME	H	SEDIMENTS	L	AG	N
LRIS	020	IND	H	CSOs	N	PKG	N	ATMOS	US	DUMPS	H
PEMSO	410302							WTP SLUDGE	N	DREDGE	N
										LUST	HS

NOTES Partly on septic systems; mostly sewered.
IND: Doehler-Jarvis (2IC00021) H, DuPont Paint (2IF00016) M

Watershed Name: **HALFWAY CR. ABOVE SHANTEE CR**

TMACOG	021	POTW	N	URBAN	M	HOME	L	SEDIMENTS	U	AG	M
LRIS	021	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	L
PEMSO	410302							WTP SLUDGE	N	DREDGE	N
										LUST	MS

NOTES

Watershed Name: **HALFWAY CR. @ OH/MI LINE**

TMACOG	022	POTW	N	URBAN	H	HOME	M	SEDIMENTS	U	AG	M
LRIS	022	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS	US
PEMSO	410302							WTP SLUDGE	N	DREDGE	N
										LUST	HS

NOTES

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT							
	Public/Industrial		Home Sewage		Wtr Qual/Uses		Others	

** BASIN MAUMEE RIVER/BAY

Watershed Name: **SILVER CREEK**

TMACOG	023	POTW	N	URBAN	H	HOME	L	SEDIMENTS	U	AG L
LRIS	023	IND	H	CSOs	N	PKG	H	ATMOS	US	DUMPS US
PEMSO	410302							WTP SLUDGE	N	DREDGE N
										LUST HS

NOTES IND: General Mills (2IH00093) H, Teledyne (2IO00001) L

Watershed Name: **HALFWAY CR. ABOVE INDIAN CR**

TMACOG	025	POTW	N	URBAN	H	HOME	L	SEDIMENTS	U	AG M
LRIS	025	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS US
PEMSO	410302							WTP SLUDGE	N	DREDGE N
										LUST HS

NOTES

Watershed Name: **OTTER CREEK**

TMACOG	028	POTW	H	URBAN	M	HOME	H	SEDIMENTS	H	AG H
LRIS	028	IND	H	CSOs	N	PKG	H	ATMOS	US	DUMPS H
PEMSO	1610364							WTP SLUDGE	H	DREDGE N
										LUST MS

NOTES Evergreen Landfill
IND: LOF #4 & #8 (2IN00020) H, Sun Oil (2IG00003) H, CSX Presque Isle (2IT00013) M, Fondessey (2IN00013) L, Liquid Carbonic (2IN00069) L, Toledo Edison Bayshore (2IB00000) L, Standard Oil (2IG00007) L
WTP SLUDGE: Toledo WTP
POTW: Oregon DuPont Road (=M) and South Shore Park WWTPs (=H)

Watershed Name: **WOLF CREEK**

TMACOG	029	POTW	N	URBAN	L	HOME	H	SEDIMENTS	L	AG H
LRIS	029	IND	L	CSOs	N	PKG	H	ATMOS	US	DUMPS H
PEMSO	1610364							WTP SLUDGE	N	DREDGE N
										LUST LS

NOTES

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses		Others			

** BASIN MAUMEE RIVER/BAY

Watershed Name: **LAKE ERIE WATERSHED #1**

TMACOG	030	POTW	N	URBAN	H	HOME	L	SEDIMENTS	L	AG	N
LRIS	030	IND	L	CSOs	N	PKG	H	ATMOS	US	DUMPS	H
PEMSO	411133							WTP SLUDGE	N	DREDGE	N
										LUST	HS

NOTES Dumps/Landfills: Treasure Island, Willys Park, Stickney Ave.

Watershed Name: **MAUMEE AT WATERVILLE**

TMACOG	043	POTW	L	URBAN	L	HOME	H	SEDIMENTS	L	AG	H
LRIS	043	IND	L	CSOs	N	PKG	N	ATMOS	US	DUMPS	M
PEMSO	410235							WTP SLUDGE	N	DREDGE	N
										LUST	LS

NOTES POTW: Haskins WWTP (=L)

Watershed Name: **MAUMEE RIVER @ GRASSY CR DIVERSION**

TMACOG	044	POTW	L	URBAN	L	HOME	L	SEDIMENTS	L	AG	H
LRIS	044	IND	L	CSOs	M	PKG	H	ATMOS	US	DUMPS	MS
PEMSO	410133							WTP SLUDGE	N	DREDGE	N
										LUST	LS

NOTES POTW: Maumee River WWTP (=L)

Watershed Name: **GRASSY CREEK**

TMACOG	045	POTW	N	URBAN	L	HOME	M	SEDIMENTS	U	AG	H
LRIS	045	IND	M	CSOs	N	PKG	H	ATMOS	US	DUMPS	M
PEMSO	410133							WTP SLUDGE	L	DREDGE	N
										LUST	LS

NOTES WTP SLUDGE: Bowling Green WTP
IND: BG WTP (2IW00010) M

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT			
	Public/Industrial	Home Sewage	Wtr Qual/Uses	Others

** BASIN MAUMEE RIVER/BAY

Watershed Name: GRASSY CREEK

TMACOG 046	POTW N	URBAN MS	HOME L	SEDIMENTS U	AG M
LRIS 046	IND N	CSOs N	PKG H	ATMOS US	DUMPS MS
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES Rossford Landfill

Watershed Name: MAUMEE RIVER @ GRASSY CR

TMACOG 047	POTW N	URBAN M	HOME L	SEDIMENTS L	AG H
LRIS 047	IND H	CSOs M	PKG N	ATMOS US	DUMPS MS
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES IND: Libbey-Owens-Ford #6 (2IN00030) H

Watershed Name: REITZ ROAD DITCH

TMACOG 078	POTW N	URBAN L	HOME H	SEDIMENTS L	AG U
LRIS 078	IND N	CSOs N	PKG N	ATMOS US	DUMPS US
PEMSO 411235				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

Watershed Name: MAUMEE RIVER @ BLUEGRASS IS

TMACOG 079	POTW H	URBAN M	HOME L	SEDIMENTS L	AG H
LRIS 079	IND N	CSOs M	PKG H	ATMOS US	DUMPS MS
PEMSO 410133				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES POTW: Perrysburg WWTP (=H)

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses			Others		

** BASIN SWAN CREEK

Watershed Name: AI CREEK

TMACOG	007	POTW	N	URBAN	L	HOME	H	SEDIMENTS	U	AG H
LRIS	007	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS LS
PEMSO	410102							WTP SLUDGE	N	DREDGE N
										LUST LS

NOTES Spencer Twp. Dump

Watershed Name: SWAN CREEK ABOVE AI CREEK

TMACOG	008	POTW	N	URBAN	L	HOME	M	SEDIMENTS	L	AG H
LRIS	008	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS US
PEMSO	410101							WTP SLUDGE	N	DREDGE N
										LUST LS

NOTES

Watershed Name: GAIL RUN

TMACOG	039	POTW	N	URBAN	L	HOME	M	SEDIMENTS	U	AG S
LRIS	039	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS M
PEMSO	410101							WTP SLUDGE	N	DREDGE N
										LUST LS

NOTES

Watershed Name: SWAN CREEK @ TOLEDO

TMACOG	010	POTW	N	URBAN	H	HOME	L	SEDIMENTS	M	AG H
LRIS	010	IND	N	CSOs	M	PKG	N	ATMOS	US	DUMPS MS
PEMSO	410132							WTP SLUDGE	N	DREDGE N
										LUST HS

NOTES CSO: Lower watershed has CSOs, but upper watershed has none.

Watershed Name: WOLF CREEK @ MOUTH

TMACOG	011	POTW	N	URBAN	M	HOME	H	SEDIMENTS	L	AG H
LRIS	011	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS M
PEMSO	410132							WTP SLUDGE	N	DREDGE N
										LUST MS

NOTES Angola Rd. Dump

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses			Others		

** BASIN SWAN CREEK

Watershed Name:	SWAN CREEK @ MOUTH									
TMACOG 012	POTW	N	URBAN	H	HOME	L	SEDIMENTS	H	AG	H
LRIS 012	IND	N	CSOs	H	PKG	N	ATMOS	US	DUMPS	H
PEMSO 410132							WTP SLUDGE	N	DREDGE	N
									LUST	HS

NOTES South Ave. Dump

Watershed Name:	BLUE CREEK ABOVE HARRIS DITCH									
TMACOG 038	POTW	N	URBAN	L	HOME	M	SEDIMENTS	U	AG	H
LRIS 038	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	US
PEMSO 410103							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES

Watershed Name:	SWAN CREEK ABOVE BLUE CREEK									
TMACOG 039	POTW	N	URBAN	L	HOME	M	SEDIMENTS	L	AG	H
LRIS 039	IND	N	CSOs	H	PKG	H	ATMOS	US	DUMPS	LS
PEMSO 410131							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES CSO: Whitehouse

Watershed Name:	BLUE CREEK @ MOUTH									
TMACOG 040	POTW	N	URBAN	L	HOME	M	SEDIMENTS	U	AG	H
LRIS 040	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	LS
PEMSO 410103							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES American Can Impoundment

Watershed Name:	MOSQUITO CREEK									
TMACOG 040	POTW	N	URBAN	L	HOME	M	SEDIMENTS	L	AG	M
LRIS 040	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS	M
PEMSO 410103							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT			
	Public/Industrial	Home Sewage	Wtr Qual/Uses	Others

** BASIN SWAN CREEK

Watershed Name: **SWAN CREEK ABOVE WOLF CR**

TMACOG 041	POTW N	URBAN MS	HOME H	SEDIMENTS M	AG H
LRIS 041	IND L	CSOs M	PKG H	ATMOS US	DUMPS MS
PEMSO 410132				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES Partly on septic systems, partly sewered.
CSO: Below Whitehouse. Most of watershed has none.

Watershed Name: **CAIRL CREEK**

TMACOG 042	POTW N	URBAN MS	HOME M	SEDIMENTS U	AG M
LRIS 042	IND N	CSOs N	PKG H	ATMOS US	DUMPS US
PEMSO 410132				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES

Watershed Name: **HARRIS DITCH**

TMACOG 075	POTW N	URBAN L	HOME M	SEDIMENTS U	AG H
LRIS 075	IND N	CSOs N	PKG N	ATMOS US	DUMPS LS
PEMSO 410103				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

Watershed Name: **WOLF CREEK ABOVE CAIRL DITCH**

TMACOG 009	POTW N	URBAN MS	HOME H	SEDIMENTS L	AG H
LRIS 009	IND L	CSOs N	PKG H	ATMOS US	DUMPS M
PEMSO 0410132				WTP SLUDGE N	DREDGE N
					LUST MS

NOTES

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses		Others			

** BASIN OTTAWA RIVER

Watershed Name: **TENMILE CREEK ABOVE PRAIRIE DITCH**

TMACOG	001	POTW	N	URBAN	L	HOME	M	SEDIMENTS	L	AG	H
LRIS	001	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	US
PEMSO	410301							WTP SLUDGE	N	DREDGE	N
										LUST	LS

NOTES

Watershed Name: **PRAIRIE DITCH**

TMACOG	002	POTW	N	URBAN	L	HOME	H	SEDIMENTS	U	AG	H
LRIS	002	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS	US
PEMSO	410301							WTP SLUDGE	N	DREDGE	N
										LUST	LS

NOTES

Watershed Name: **TENMILE CREEK ABOVE NORTH BRANCH**

TMACOG	003	POTW	N	URBAN	MS	HOME	H	SEDIMENTS	M	AG	H
LRIS	003	IND	L	CSOs	N	PKG	H	ATMOS	US	DUMPS	HS
PEMSO	410301							WTP SLUDGE	N	DREDGE	N
										LUST	MS

NOTES IND: Reichert Stamping (2IS00008) L, France Stone Silica (2IJ00039) L

Watershed Name: **OTTAWA RIVER @ TOLEDO**

TMACOG	004	POTW	N	URBAN	M	HOME	H	SEDIMENTS	H	AG	H
LRIS	004	IND	H	CSOs	N	PKG	H	ATMOS	US	DUMPS	H
PEMSO	411331							WTP SLUDGE	N	DREDGE	N
										LUST	MS

NOTES IND: King Road Landfill (2IN0079)

Watershed Name: **OTTAWA RIVER @ MOUTH**

TMACOG	005	POTW	N	URBAN	H	HOME	L	SEDIMENTS	H	AG	H
LRIS	005	IND	H	CSOs	H	PKG	N	ATMOS	US	DUMPS	H
PEMSO	411331							WTP SLUDGE	N	DREDGE	N
										LUST	HS

NOTES Dura dump, et al., and Helfinger Pond
IND: Diversitech (2IQ00012) H, DuPont (2IF00017) L

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT			
	Public/Industrial	Home Sewage	Wtr Qual/Uses	Others

** BASIN OTTAWA RIVER

Watershed Name:	SIBLEY CREEK			
TMACOG 005	POTW N URBAN H	HOME L	SEDIMENTS U	AG H
LRIS 005	IND N CSOs N	PKG N	ATMOS US	DUMPS H
PEMSO 411331			WTP SLUDGE N	DREDGE N
				LUST HS
NOTES				

Watershed Name:	TENMILE CREEK, N BRANCH @ MOUTH			
TMACOG 006	POTW N URBAN M	HOME H	SEDIMENTS L	AG H
LRIS 006	IND N CSOs N	PKG N	ATMOS US	DUMPS L
PEMSO 410301			WTP SLUDGE N	DREDGE N
				LUST MS
NOTES Partly on septic systems; mostly sewered.				

Watershed Name:	SAXTON DRAIN			
TMACOG 006	POTW L URBAN M	HOME	SEDIMENTS	AG H
LRIS 006	IND CSOs L	PKG L	ATMOS U	DUMPS US
PEMSO 410301			WTP SLUDGE N	DREDGE
				LUST MS
NOTES				

Watershed Name:	BISCHOFF DRAIN			
TMACOG 006	POTW L URBAN M	HOME	SEDIMENTS	AG H
LRIS 006	IND CSOs L	PKG L	ATMOS U	DUMPS
PEMSO 410301			WTP SLUDGE N	DREDGE
				LUST MS
NOTES				

Watershed Name:	HILL DITCH			
TMACOG 202	POTW N URBAN M	HOME H	SEDIMENTS U	AG L
LRIS 202	IND N CSOs N	PKG H	ATMOS US	DUMPS US
PEMSO 411331			WTP SLUDGE N	DREDGE N
				LUST MS
NOTES				

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT			
	Public/Industrial	Home Sewage	Wtr Qual/Uses	Others

** BASIN LAKE ERIE

Watershed Name: **LAKE ERIE WATERSHED #2**

TMACOG 031	POTW N	URBAN L	HOME H	SEDIMENTS U	AG H
LRIS 031	IND N	CSOs N	PKG H	ATMOS US	DUMPS MS
PEMSO 411364				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

Watershed Name: **LITTLE CEDAR CREEK**

TMACOG 032	POTW N	URBAN L	HOME H	SEDIMENTS U	AG H
LRIS 032	IND N	CSOs N	PKG N	ATMOS US	DUMPS HS
PEMSO 1610303				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

Watershed Name: **CEDAR CREEK**

TMACOG 032	POTW N	URBAN L	HOME H	SEDIMENTS U	AG H
LRIS 032	IND H	CSOs N	PKG H	ATMOS US	DUMPS M
PEMSO 1610303				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES IND: Conrail/Stanley Yard (2IT00007) H, CSX Walbridge (2IT00002) L, Stoneco Lime City (2IJ00052) L

Watershed Name: **DRY CREEK**

TMACOG 032	POTW N	URBAN L	HOME H	SEDIMENTS U	AG H
LRIS 032	IND N	CSOs N	PKG H	ATMOS US	DUMPS M
PEMSO 1610303				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

Watershed Name: **CRANE CREEK**

TMACOG 033	POTW N	URBAN L	HOME H	SEDIMENTS U	AG H
LRIS 033	IND N	CSOs N	PKG H	ATMOS US	DUMPS M
PEMSO 1610302				WTP SLUDGE N	DREDGE N
					LUST LS

NOTES

WATER QUALITY PROBLEM MATRIX

Lower Maumee Basin
Remedial Action Plan

Watershed Numbers	PROBLEM AREAS BY COMMITTEE ASSIGNMENT									
	Public/Industrial		Home Sewage		Wtr Qual/Uses			Others		

** BASIN LAKE ERIE

Watershed Name:	HENRY CREEK									
TMACOG 033	POTW	N	URBAN	L	HOME	H	SEDIMENTS	U	AG	H
LRIS 033	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	H
PEMSO 1610302							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES

Watershed Name:	AYRES CREEK									
TMACOG 033	POTW	N	URBAN	L	HOME	H	SEDIMENTS	U	AG	H
LRIS 033	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	H
PEMSO 1610302							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES Asman Dump, Milbury Dump, Molner Packing Imp., Std. Oil Co. Imp.

Watershed Name:	LITTLE CRANE CREEK									
TMACOG 033	POTW	N	URBAN	L	HOME	H	SEDIMENTS	U	AG	H
LRIS 033	IND	N	CSOs	N	PKG	H	ATMOS	US	DUMPS	HS
PEMSO 1610302							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES

Watershed Name:	LAKE ERIE WATERSHED #3									
TMACOG 034	POTW	N	URBAN	L	HOME	H	SEDIMENTS	L	AG	H
LRIS 034	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS	US
PEMSO 411363							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES

Watershed Name:	LAKE ERIE WATERSHED #4									
TMACOG 035	POTW	N	URBAN	L	HOME	M	SEDIMENTS	L	AG	H
LRIS 035	IND	N	CSOs	N	PKG	N	ATMOS	US	DUMPS	US
PEMSO 411362							WTP SLUDGE	N	DREDGE	N
									LUST	LS

NOTES