ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

217/333-8361

US EPA RECORDS CENTER REGION 5

484178

DATE: January 11, 1993

TO: DWPC/RU

FROM: Eileen Cronin, WPC-Champaign EMC

SUBJECT: Robinson Creek Sampling (Crawford Co. - Sugar Creek Basin)

On 1/11/93 I visited Robinson to sample Robinson Creek and its tributaries in and near the City of Robinson. These streams are part of the Sugar Creek basin, which has been assigned an "A" priority under the Agency's Targeted Watersheds Initiative. Past stream surveys conducted by IEPA (1978, 1986, 1991) have documented impairment downstream of the basin's two major dischargers, Marathon Oil Refinery and the Robinson POTW; in addition, the creeks may be affected by minor industrial dischargers (Briggs Industries, UCAR, and (soon) Victor-Dana) and urban runoff.

I had previously (12/29/92) notified personnel at Robinson and Marathon of my intention to conduct stream and effluent sampling on this date. The POTW staff chose not to split samples. I called Marathon twice--at about 9:30 am and 12:00 noon--from the municipal plant. Both times I asked for Christine Meyer, Environmental Engineer; she was not available on either occasion so I left messages describing my planned activities on her voice mail. I never met up with anyone from Marathon, but I don't know if it was because they weren't interested in splitting samples or if they never caught up to me. Marathon's position vis-a-vis my stream and effluent sampling will be clarified prior to my next expedition.

Background

Attachment A depicts sampling points and permitted point source discharges in the area, and shows how I have chosen to name and define the local waterways. The names 'Robinson Creek', 'Quail Creek', and 'Marathon Creek' are apparently in common usage, if not actually officially recognized; Attachment A shows where I've assumed them to start, and also shows the two creeks that I "named" for the purposes of this project: "Briggs Ditch", originating just south of Briggs Industries and receiving its NPDES discharge, and "STP Ditch", which runs east of the municipal treatment plant.

Effluent samples were collected using normal procedures and were submitted to the Champaign Lab for testing of each facility's NPDES parameters, plus any others that seemed advisable. Stream samples were collected with a 1/2-gallon, unpreserved plastic bottle, then immediately transferred to the preserved sample bottles appropriate for the intended

testing; the 1/2-gallon plastic bottle was then refilled for testing of parameters for which no preservation was required. Sampling locations were chosen on the basis of (1) apparent representativeness of the sample at that point, and (2) ease of access, particularly with respect to the probability that I would get some part of my body wet. Air and water temperature were measured with a mercury thermometer at each location; samples were turned in to the Champaign lab to be tested for:

- pH
- BOD_5
- TSS
- NH_3-N
- nitrate + nitrite
- ICAP
- sulfate
- sulfide
- ROE
- COD
- chloride
- arsenic
- fluoride
- hex chrome
- mercury

All stream and effluent samples were checked in at the Champaign lab on 1/12 at about 9:30 am. Mark Thomas (WPC-Champaign) drove biomonitoring and organics samples to Springfield during the morning of 1/12; these were submitted to the Agency's Ecotox and Springfield labs, respectively. (See also: memo of 1/11/93 titled, "Robinson WWTP: Biomonitoring and Other Special Sampling.")

Samples Collected

S-1: Quail Creek at Country Club Road (BFCB-12)

There were some soapsuds in the creek but I didn't attempt to trace their source.

S-2: Briggs Ditch "headwaters"

This stream originates at a basin south of the railroad tracks; older file documents indicate that, in addition to surface runoff, it is fed by a roof drain line and a parking lot drain originating at E.H. Barre, a neighboring industry. Ditches on both sides of the railroad tracks feed the stream from the east and west. From there it flows under the fence at Briggs' property line, past a large pile of WWTP "sludge" (actually a clay-like material), past the Briggs WWTP and Outfall 001, under the factory building, through a catch basin on the north side of the building, and resurfaces about 1-1/2 blocks northeast of the plant (see Attachment B).

E-3: Briggs Industries 001

This discharge (estimated flow ~60 gpm) was distinctly pink and was discoloring the receiving water for a couple dozen feet downstream. I peeked into the catch basin on the north side of the building and noted a greasy sheen on the surface of the water flowing through it but couldn't discern its color, if any.

S-3: Briggs Ditch NE of Intersection of Allen St. and Rt. 33

Two sewers surface at this point; I assumed the west sewer was carrying Briggs Ditch because it appeared to be oriented in the right direction, and because the water in it was flowing while the water in the east line appeared basically stagnant. The sample was a very faint pink, further confirming my guess, and its temperature was 45°F--higher than any of the other stream temperatures, which were generally in the upper 30's. In 1979, Briggs was found to be discharging NCCW to the "sewer" running under the plant; this (unpermitted) discharge was supposedly eliminated, but perhaps additional investigation into this is warranted. (Briggs operates several (six?) large kilns that make the air in the building very warm; it's possible the temperature of Briggs Ditch could be elevated by heat radiating through the factory's concrete floors.) In any event, the greasy sheen at the catch basin suggests contamination from Briggs' floor drains (all of which discharge to the "sewer"); I didn't see a sheen when collecting Sample S-3, but patches of sheen surfaced when I stirred the sediments at the sampling point.

S-4: Robinson Creek at Tulip Lane

S-5: STP Ditch at Landfill Road

Before collecting this sample I checked the plant bypass outfall that discharges just downstream of the sampling point; there was no discharge occurring.

S-6: Robinson Creek at old railroad bridge (BFC-20)

Before collecting this sample I checked the old lagoon outfall on Quail Creek; there was no discharge occurring.

S-7: Robinson Creek downstream of Quail Creek (BFC-19)

The sampling point used in earlier stream surveys was ~50 yards downstream of the confluence of the two creeks, but I didn't go that far downstream to get S-7. The old city dump (now used for burning yard waste) is located east of the WWTP, adjacent to STP Ditch and Robinson Creek. It didn't look like it was having any impact on the creek except for litter (e.g., old bottles and appliances), but it's possible that a small amount of leaching is occurring.

S-8, O-3: Marathon Creek at railroad tracks

This point is accessed from the property of MAECO, Inc., so I stopped in at their office and left a business card before collecting my sample. Marathon Creek originates at a large concrete pipe running under the railroad tracks north of the refinery (see Attachment B). It is known to receive discharges from Marathon 002 and 003, UCAR 001, and stormwater from south and east of Marathon's property. (When Victor-Dana starts operating its groundwater remediation unit, this discharge will also be tributary to Marathon Creek.)

On the day of my visit, the creek had a dark bluish-black oily sheen on its surface and smelled strongly of generic petroleum products--not the refinery odor of Marathon itself (which I detected soon afterward at Marathon 001). The flow was fairly low (about 4-5" deep at the center of the pipe), so I don't think Marathon was discharging from 002/003. I collected FOG and organics samples in addition to the standard parameters obtained at the other sampling sites. (I didn't have enough volatile organics bottles with me, so I filled the semi-volatile bottle full (no head space) and then transferred part of it to volatile sample bottles when I got back to the office. This deviation from standard practice means the volatile results can't be viewed as official in any way, but they might still be interesting.) The creek still looked dark at the Rt. 33 bridge, though the oily sheen was no longer evident.

S-9: Robinson Creek at farm road

E-6: Marathon 001

As previously mentioned, the discharge had a distinct "Marathon refinery" odor; it also had a slight tan cast and was fairly warm (~85°F). Flow rate was difficult to estimate, but appeared to be at least 1.0-1.5 MGD.

S-10: Robinson Creek downstream of Marathon Creek

Marathon Creek joins Robinson Creek just downstream of 001, and at this point the dark color of the former was in striking contrast to the main stream. The south half of Robinson Creek was definitely darker than the north half for at least 100' below its confluence; I tried to go far enough downstream so that the creek was well mixed, at least from a visual standpoint, before collecting S-10 from the south side of a gravel bar in the middle of the creek.

S-11: Robinson Creek at Route 1

Conclusion

Sample results will be forwarded when available. Two items appear to warrant additional investigation:

1. What was elevating the temperature of Briggs Ditch downstream of the factory?

2. What was causing the apparent poor condition of Marathon Creek? Assuming no discharge from Marathon 002/003, the source could have been: (1) contaminated runoff from Marathon's property which for some reason was not captured by the impoundment basin or WWTP, (2) contamination originating at UCAR (point- and/or area-source discharges), or (3) a currently unknown or unrecognized source.

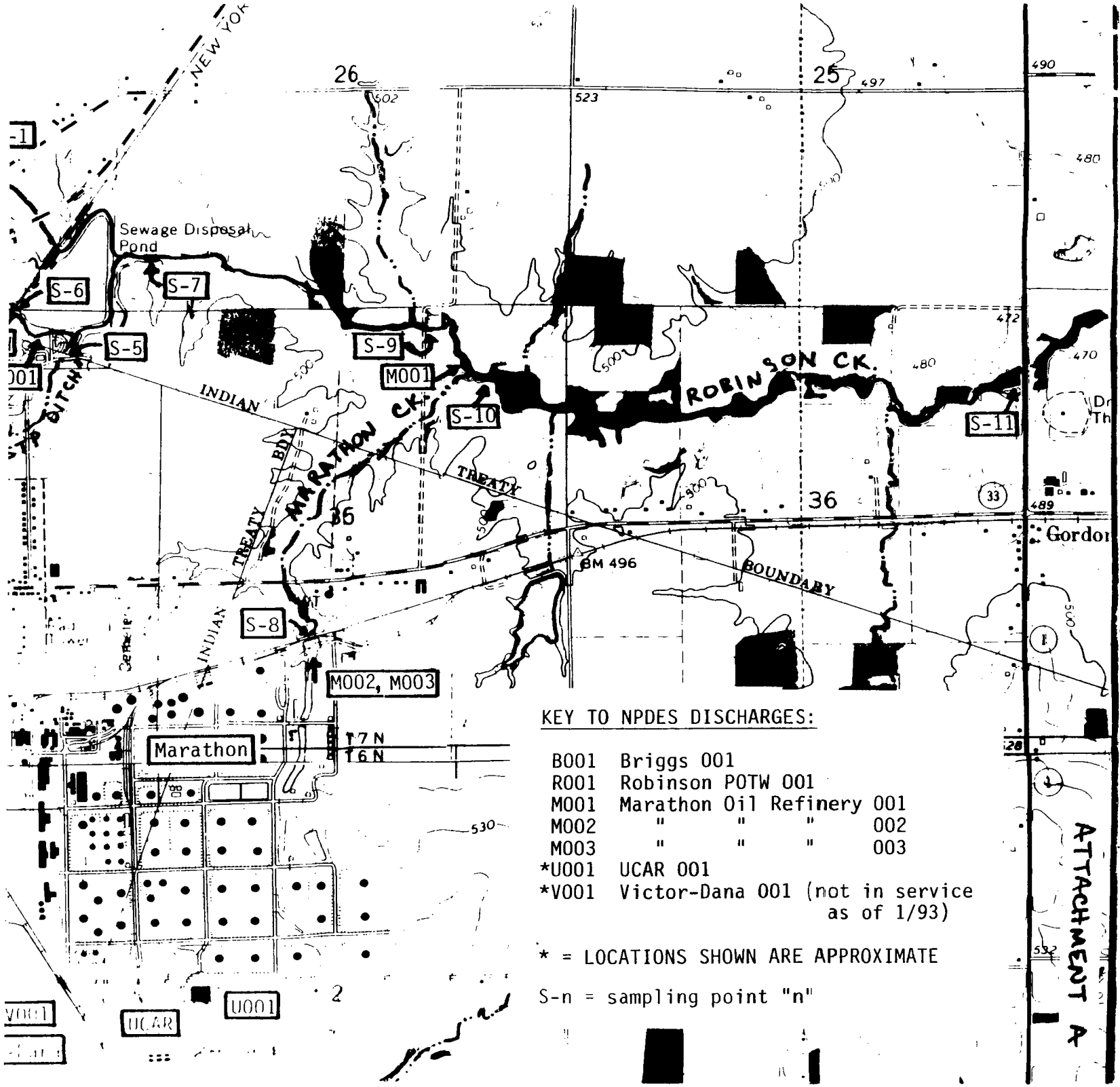
EC:jp3785p

Attachment A - Vicinity Map
B - Briggs Ditch
C - POTW and Vicinity
D - Lab Results (to follow)

cc: Bob Mosher, DWPC/Planning

N

• ADAPTED FROM DWG. SUBMIT TO REGION 2/84



ATTACHMENT A

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: S-1

Co Funding Code: W 2 0 6 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-DID: Basin ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample Pt: Q V A T L C K @ C O U N T R Y C L U B R D (B F C B - 1 2) 19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 0 9 4 0 (H H M M)

23-Instructions to Lab: ___ 21-Collected by: E M C 22-Transported by: E M C (24 hr.clock)

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: E F F 0 5

Additional Lab Parameters	Field Parameters	Results
ICAP	501F0 Air Temp (°C) 35	0 3
sulfate	502F0 Water Temp (°C) 35	2
sulfide	504F0 Dissolved O_2	
ROE	503F0 Conductance	
COD	500F0 pH	
chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process Flows, Sludge, Cooling Water

Specials: WWTP, Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity,etc): ___

Effluent Conditions: ___

Weather Conditions: Overcast, low wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: some soapsuds &

Sampling Techniques: grab N side of u/s bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~361~~ 357

Sample Received By: M

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: MAR 02 1993

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300357
SAMPLING POINT DESC. : QUAIL CK @ COUNTRY CLUB RD

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 0940 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : 3

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.9	P70300	(ROE) TDS @ 180C	MG/L	: 155
P00951	FLUORIDE,TOTAL	MG/L	: 0.15	P00940	CHLORIDE,TOTAL	MG/L	: 16
P00945	SULFATE,TOTAL	MG/L	: 21	P00630	NITRATE&NO2-NTOTAL	MG/L	: 0.39
P00610	AMMONIA-N,TOTAL	MG/L	: 0.01K	P32730	PHENOLS,TOTAL	UG/L	: 10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	: 0.08	P00310	BOD 5DAY	MG/L	: 4
P00335	COD,TOTAL	MG/L	: 20	P00530	SOLIDS,TOT.SUS.	MG/L	: 9
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01002	ARSENIC,TOTAL	UG/L	: 1K
P01032	CHROMIUM,HEX	UG/L	: 50K	P71900	MERCURY,TOTAL	UG/L	: 0.05K
P00916	CALCIUM,TOTAL	MG/L	: 24.	P00927	MAGNESIUM,TOTAL	MG/L	: 7.3
P00929	SODIUM,TOTAL	MG/L	: 14.	P00937	POTASSIUM,TOTAL	MG/L	: 4.3
P01105	ALUMINUM,TOTAL	UG/L	: 330	P01007	BARIUM,TOTAL	UG/L	: 45
P01022	BORON,TOTAL	UG/L	: 31	P01012	BERYLLIUM,TOTAL	UG/L	: 1K
P01027	CADMIUM,TOTAL	UG/L	: 5K	P01034	CHROMIUM,TOTAL	UG/L	: 5K
P01042	COPPER,TOTAL	UG/L	: 5K	P01037	COBALT,TOTAL	UG/L	: 5K
P01045	IRON,TOTAL	UG/L	: 550	P01051	LEAD,TOTAL	UG/L	: 50K
P01055	MANGANESE,TOTAL	UG/L	: 140	P01067	NICKEL,TOTAL	UG/L	: 15K
P01077	SILVER,TOTAL	UG/L	: 5K	P01082	STRONTIUM,TOTAL	UG/L	: 63
P01087	VANADIUM,TOTAL	UG/L	: 5K	P01092	ZINC,TOTAL	UG/L	: 50K
P00020	TEMPERATURE,AIR	DEG.C	: 3	P00010	TEMPERATURE,WATER	DEG.C	: 2

Lab Sheet Code: IEPA - DWPC - FOS - LAB SHEET Field ID No.: 5-2

09-Funding Code: W F O G 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: 8 16-Basin ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample Pt: B R I G G S D I T C H H E A D W A T E R S

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 1 1 5 (H H M M) (24 hr.clock)

23-Instructions to Lab: ___ 21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E F P O S

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO 30 Air Temp (°C)	2
sulfate	502FO 37 Water Temp (°C)	3
sulfide	504FO Dissolved O_2	
ROE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process, Flows, Sludge, Cooling, Water

Specials: WWTP, Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity,etc): minimal flow.

Effluent Conditions: ___

Weather Conditions: overcast no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: ___

Sampling Techniques: grab just u/s of Briggs fence (west bank, s of RR trucks)

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~362~~ 358

Sample Received By: [signature]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: [signature] FEB 26 1993

IL 532-1579 WPC 526 6/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300358
SAMPLING POINT DESC. : BRIGGS DITCH HEADWATERS

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1115 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403 PH,LABORATORY	UNITS :	7.6	P70300 (ROE) TDS @ 180C	MG/L :	288
P00951 FLUORIDE,TOTAL	MG/L :	0.24	P00940 CHLORIDE,TOTAL	MG/L :	30
P00945 SULFATE,TOTAL	MG/L :	44	P00630 NITRATE&NO2-NTOTAL	MG/L :	1.9
P00610 AMMONIA-N,TOTAL	MG/L :	0.01K	P32730 PHENOLS,TOTAL	UG/L :	12.3
P00665 PHOSPHORUS-P,TOTAL	MG/L :	0.08	P00310 BOD 5DAY	MG/L :	1
P00335 COD,TOTAL	MG/L :	17	P00530 SOLIDS,TOT.SUS.	MG/L :	15
P00745 SULFIDE,TOTAL	MG/L :	0.03K	P01002 ARSENIC,TOTAL	UG/L :	1K
P01032 CHROMIUM,HEX	UG/L :	50K	P71900 MERCURY,TOTAL	UG/L :	0.05K
P00916 CALCIUM,TOTAL	MG/L :	56.	P00927 MAGNESIUM,TOTAL	MG/L :	9.5
P00929 SODIUM,TOTAL	MG/L :	17.	P00937 POTASSIUM,TOTAL	MG/L :	3.4
P01105 ALUMINUM,TOTAL	UG/L :	530	P01007 BARIUM,TOTAL	UG/L :	86
P01022 BORON,TOTAL	UG/L :	240	P01012 BERYLLIUM,TOTAL	UG/L :	1K
P01027 CADMIUM,TOTAL	UG/L :	5K	P01034 CHROMIUM,TOTAL	UG/L :	5K
P01042 COPPER,TOTAL	UG/L :	5K	P01037 COBALT,TOTAL	UG/L :	5K
P01045 IRON,TOTAL	UG/L :	800	P01051 LEAD,TOTAL	UG/L :	50K
P01055 MANGANESE,TOTAL	UG/L :	150	P01067 NICKEL,TOTAL	UG/L :	15K
P01077 SILVER,TOTAL	UG/L :	5K	P01082 STRONTIUM,TOTAL	UG/L :	180
P01087 VANADIUM,TOTAL	UG/L :	5K	P01092 ZINC,TOTAL	UG/L :	79
P00020 TEMPERATURE,AIR	DEG.C :	2	P00010 TEMPERATURE,WATER	DEG.C :	3

109-205p

CB001

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: E3

09-Funding Code: W P 6 6 10-Agency Routing C P 12-File Code: E F F L 13-Sample Type: E

15-Reporting: B 16-DID: Basin B F County 0 3 3 Plant 0 4 17-Sampling Program: M 6

18-Facility/Sample Pt: B R I G G S - C E L O T E X M F G . C O .

19-Begin Date: 9 3 0 1 1 (Y Y M M D D) 20-Begin 1 0 0 5 (H H M M) (24 hr.clock)

23-Instructions to Lab:

21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group:

Additional Lab Parameters	Field Parameters	Results
	501F0 Air Temp (°C)	3
pH	502F0 Water Temp (°C)	2
TSS	504F0 Dissolved O_2	
ROE	503F0 Conductance	
ICAP	500F0 pH	
Hg		
Cyanide		

27-Received By: Date: (Y Y M M D D)

Received by: Date: (Y Y M M D D)

Circle One: Effluent Stream Specials Influent Process Flows WWTP Sludge Cooling Water Other

Program:

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity,etc) discolored for at least 25'

Effluent Conditions: bright pink; flow = ~60 gpm (est w/ bucket)

Weather Conditions: overcast, no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: greasy sheen at catch basin on N side of building No disch. from auxil. line

Sampling Techniques: grab @ 001

FOR LABORATORY USE ONLY

LAB ID NO. B300~~357~~ 368

Sample Received By:

Date Received: JAN 12 1993

Time Received: 10 AM P

Lab Section:

Supervisor: FEB 11 1993

Mail To:

Briggs Manufacturing Company
1000 W. Pine St.
Robinson, IL 62454

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300368
SAMPLING POINT DESC. : BRIGGS CELOTEX MFG CO

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1005 SAMPLING PROGRAM : M6

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP66 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : EFFL SAMPLE PURPOSE CODE : E REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : PPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.3	P70300	(ROE) TDS @ 180C	MG/L	: 462
P00720	CYANIDE,TOTAL	MG/L	: 0.01K	P00530	SOLIDS,TOT.SUS.	MG/L	: 65
P71900	MERCURY,TOTAL	UG/L	: 0.05K	P00916	CALCIUM,TOTAL	MG/L	: 66.
P00927	MAGNESIUM,TOTAL	MG/L	: 11.	P00929	SODIUM,TOTAL	MG/L	: 89.
P00937	POTASSIUM,TOTAL	MG/L	: 2.9	P01105	ALUMINUM,TOTAL	UG/L	: 1600
P01007	BARIUM,TOTAL	UG/L	: 130	P01022	BORON,TOTAL	UG/L	: 170
P01012	BERYLLIUM,TOTAL	UG/L	: 1K	P01027	CADMIUM,TOTAL	UG/L	: 5K
P01034	CHROMIUM,TOTAL	UG/L	: 5K	P01042	COPPER,TOTAL	UG/L	: 5K
P01037	COBALT,TOTAL	UG/L	: 5K	P01045	IRON,TOTAL	UG/L	: 140
P01051	LEAD,TOTAL	UG/L	: 50K	P01055	MANGANESE,TOTAL	UG/L	: 35
P01067	NICKEL,TOTAL	UG/L	: 15K	P01077	SILVER,TOTAL	UG/L	: 5K
P01082	STRONTIUM,TOTAL	UG/L	: 240	P01087	VANADIUM,TOTAL	UG/L	: 5K
P01092	ZINC,TOTAL	UG/L	: 77	P00020	TEMPERATURE,AIR	DEG.C	: 3
P00010	TEMPERATURE,WATER	DEG.C	: 2				

Type: S

County ___ Plant ___ 17-

18-Facility/Sa[illegible] [illegible] C S _ D I T C H _ [illegible] _ [illegible] L B N

[illegible] _ 19-Begin 9 3 0 1 1 [illegible] 0 3 5

Date: Y Y M M [illegible] M M

23-Instructions to Lab: ___ 21-Collected by: EMC 22-Transported by: EMC

(hr.clock)

27-Received by: ___

Received by: ___

Circle One: [illegible] Specials: WWTP Other

Program: ___

NPDES No: ___

Receiving S[illegible]

Receiving S[illegible] (velocity,etc):

Effluent Conditions: ___

Weather Conditions: Overcast no wind

[illegible]

Sulfide

Sulfate

ROE

COD

chloride

arsenic

fluoride

phenol

Cr^{+6}

Hg

Dissolved O2

Conductance

pH

Comments & Unusual Conditions & Severity: (If applicable, Stamp "No Visible Problem This Visit")

[illegible] pink hue. Patches of greasy sheen surfaced [illegible] deposits disturbed

[illegible] grab [illegible] of brick sewer (West) [illegible]

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~363~~ 359

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: [illegible] FEB 26 1993

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300359
SAMPLING POINT DESC. : BRIGGS DITCH NE OF ALLEN & RT 33

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1035 SAMPLING PROGRAM :

COLLECTED BY : SMC DELIVERED BY : SMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : 9

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	7.8	P70300	(ROE) TDS @ 180C	MG/L	431
P00951	FLUORIDE,TOTAL	MG/L	0.58	P00940	CHLORIDE,TOTAL	MG/L	43
P00945	SULFATE,TOTAL	MG/L	82	P00630	NITRATE&NO2-NTOTAL	MG/L	3.2
P00610	AMMONIA-N,TOTAL	MG/L	0.01K	P32730	PHENOLS,TOTAL	UG/L	10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	0.03	P00310	BOD 5DAY	MG/L	1
P00335	COD,TOTAL	MG/L	7	P00530	SOLIDS,TOT.SUS.	MG/L	18
P00745	SULFIDE,TOTAL	MG/L	0.02K	P01002	ARSENIC,TOTAL	UG/L	1K
P01032	CHROMIUM,HEX	UG/L	50K	P71900	MERCURY,TOTAL	UG/L	0.05K
P00916	CALCIUM,TOTAL	MG/L	50.	P00927	MAGNESIUM,TOTAL	MG/L	11.
P00929	SODIUM,TOTAL	MG/L	87.	P00937	POTASSIUM,TOTAL	MG/L	2.6
P01105	ALUMINUM,TOTAL	UG/L	250	P01007	BARIUM,TOTAL	UG/L	72
P01022	BORON,TOTAL	UG/L	150	P01012	BERYLLIUM,TOTAL	UG/L	1K
P01027	CADMIUM,TOTAL	UG/L	5K	P01034	CHROMIUM,TOTAL	UG/L	5K
P01042	COPPER,TOTAL	UG/L	5K	P01037	COBALT,TOTAL	UG/L	5K
P01045	IRON,TOTAL	UG/L	270	P01051	LEAD,TOTAL	UG/L	50K
P01055	MANGANESE,TOTAL	UG/L	110	P01067	NICKEL,TOTAL	UG/L	15K
P01077	SILVER,TOTAL	UG/L	5K	P01082	STRONTIUM,TOTAL	UG/L	150
P01087	VANADIUM,TOTAL	UG/L	5K	P01092	ZINC,TOTAL	UG/L	30
P00020	TEMPERATURE,AIR	DEG.C	3	P00010	TEMPERATURE,WATER	DEG.C	7

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: 54

09-Funding Code: W P O 6 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-DID: Basin ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample Pt: R O B I N S O N C K @ ~~[illegible]~~ T U L I P ~~[illegible]~~ I N

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 0 5 5 (H H M M)

23-Instructions to Lab: ___ 21-Collected by: E M C 22-Transported by: E M C (24 hr.clock)

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E E F O S

Additional Lab Parameters	Field Parameters	Results
ICAP	501F0 Air Temp (°C) 37	2
sulfide	502F0 Water Temp (°C) 37	3
sulfate	504F0 Dissolved O_2	
ROE	503F0 Conductance	
COD	500F0 pH	
Chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process Flows, Sludge, Cooling Water

Specials: WWTP, Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity, etc): clear, high, low flow

Effluent Conditions: ___

Weather Conditions: overcast no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: ___

Sampling Techniques: grab from ~~[illegible]~~ u/s ~~[illegible]~~ of bridge, south bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~364~~ 360

Sample Received By: [illegible]

Date Received: [illegible]

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: MAR 02 1993 [signature]

IL 532-1578 WPC 326 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300360
SAMPLING POINT DESC. : ROBINSON CK @ TULIP LN

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1055 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.7	P70300	(ROE) TDS @ 180C	MG/L	: 341
P00951	FLUORIDE,TOTAL	MG/L	: 0.30	P00940	CHLORIDE,TOTAL	MG/L	: 40
P00945	SULFATE,TOTAL	MG/L	: 39	P00630	NITRATE&NO2-NTOTAL	MG/L	: 1.6
P00610	AMMONIA-N,TOTAL	MG/L	: 0.05	P32730	PHENOLS,TOTAL	UG/L	: 10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	: 0.08	P00310	BOD 5DAY	MG/L	: 1
P00335	COD,TOTAL	MG/L	: 15	P00530	SOLIDS,TOT.SUS.	MG/L	: 24
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01002	ARSENIC,TOTAL	UG/L	: 1K
P01032	CHROMIUM,HEX	UG/L	: 50K	P71900	MERCURY,TOTAL	UG/L	: 0.05K
P00916	CALCIUM,TOTAL	MG/L	: 41.	P00927	MAGNESIUM,TOTAL	MG/L	: 11.
P00929	SODIUM,TOTAL	MG/L	: 36.	P00937	POTASSIUM,TOTAL	MG/L	: 4.6
P01105	ALUMINUM,TOTAL	UG/L	: 380	P01007	BARIUM,TOTAL	UG/L	: 76
P01022	BORON,TOTAL	UG/L	: 52	P01012	BERYLLIUM,TOTAL	UG/L	: 1K
P01027	CADMIUM,TOTAL	UG/L	: 5K	P01034	CHROMIUM,TOTAL	UG/L	: 5K
P01042	COPPER,TOTAL	UG/L	: 5K	P01037	COBALT,TOTAL	UG/L	: 5K
P01045	IRON,TOTAL	UG/L	: 590	P01051	LEAD,TOTAL	UG/L	: 50K
P01055	MANGANESE,TOTAL	UG/L	: 76	P01067	NICKEL,TOTAL	UG/L	: 15K
P01077	SILVER,TOTAL	UG/L	: 5K	P01082	STRONTIUM,TOTAL	UG/L	: 110
P01087	VANADIUM,TOTAL	UG/L	: 5K	P01092	ZINC,TOTAL	UG/L	: 64
P00020	TEMPERATURE,AIR	DEG.C	: 2	P00010	TEMPERATURE,WATER	DEG.C	: 3

[illegible] ID No.:

[illegible] Routing CP 12-File Code: [illegible] Sample Type: S

15-Reporting: [illegible] County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample: [illegible] TP DITCH @ LANDFILL RD

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin: 1 3 0 0 (H H M M) (24 hr.clock)

23-Instructions to Lab: ___ 21-Collected by: EMC 22-Transported by: EMC

Composite Sample Ending Date: 5 2 9 F 6 Y Y M M D D

Ending Time: 5 2 9 F 6 H H M M (24-hr.clock)

05-Lab Parameter Group: EPP 05

Additional Lab Parameters	Field Parameters	Results
TOAP	501FO 36 Air Temp (°C)	2
Sulfate	502FO 38 Water Temp (°C)	3
sulfide	504FO Dissolved O2	
DOE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr+6		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent [illegible] Influent [illegible] Flows Sludge [illegible] Water

Specials: WWTP Other

Program: ___

NPDES No: ___

Receiving Stream [illegible]

Receiving Stream Conditions (velocity,etc): ___

Effluent Conditions: ___

Weather Conditions: overcast, no wind

Comments & Unusual Conditions & Severity:(If applicable,Stamp- "No Visible Problem This Visit")

Re[illegible]

Sampling Techniques: grab d/s of bridge, North bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~365~~ 361

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: MAR 02 1993

IL 532-1378
EPC 528 5/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300361
SAMPLING POINT DESC. : STP DITCH @ LANDFILL RD

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1300 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.7	P70300	(ROE) TDS @ 180C	MG/L	: 426
P00951	FLUORIDE,TOTAL	MG/L	: 0.22	P00940	CHLORIDE,TOTAL	MG/L	: 79
P00945	SULFATE,TOTAL	MG/L	: 95	P00630	NITRATE&NO2-NTOTAL	MG/L	: 0.81
P00610	AMMONIA-N,TOTAL	MG/L	: 0.01K	P32730	PHENOLS,TOTAL	UG/L	: 10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	: 0.03	P00310	BOD 5DAY	MG/L	: 1K
P00335	COD,TOTAL	MG/L	: 10	P00530	SOLIDS,TOT.SUS.	MG/L	: 4
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01002	ARSENIC,TOTAL	UG/L	: 1K
P01032	CHROMIUM,HEX	UG/L	: 50K	P71900	MERCURY,TOTAL	UG/L	: 0.05K
P00916	CALCIUM,TOTAL	MG/L	: 68.	P00927	MAGNESIUM,TOTAL	MG/L	: 17.
P00929	SODIUM,TOTAL	MG/L	: 65.	P00937	POTASSIUM,TOTAL	MG/L	: 2.8
P01105	ALUMINUM,TOTAL	UG/L	: 150K	P01007	BARIUM,TOTAL	UG/L	: 50
P01022	BORON,TOTAL	UG/L	: 130	P01012	BERYLLIUM,TOTAL	UG/L	: 1K
P01027	CADMIUM,TOTAL	UG/L	: 5K	P01034	CHROMIUM,TOTAL	UG/L	: 5K
P01042	COPPER,TOTAL	UG/L	: 5K	P01037	COBALT,TOTAL	UG/L	: 5K
P01045	IRON,TOTAL	UG/L	: 510	P01051	LEAD,TOTAL	UG/L	: 50K
P01055	MANGANESE,TOTAL	UG/L	: 430	P01067	NICKEL,TOTAL	UG/L	: 15K
P01077	SILVER,TOTAL	UG/L	: 5K	P01082	STRONTIUM,TOTAL	UG/L	: 170
P01087	VANADIUM,TOTAL	UG/L	: 5K	P01092	ZINC,TOTAL	UG/L	: 66
P00020	TEMPERATURE,AIR	DEG.C	: 2	P00010	TEMPERATURE,WATER	DEG.C	: 3

56

Lab [illegible] IEPA - DWPC - FOS - LAB SHEET Field ID No.:

09-Funding [illegible]: W E D 6 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-[illegible]: Basin____ County____ Plant____ 17-Sampling Program:____

18-Facility/Sample Pt: R O B I N S O N _ C K _ @ _ R R _ B R I D G E _ (B F C - 2 0) _____ 19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 3 2 0 (H H M M) (24 hr.clock)

23-Instructions to Lab: _____ 21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: E F F D S

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO Air Temp (°C)	3
sulfate	502FO Water Temp (°C)	3
sulfide	504FO Dissolved O_2	
DOE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: ____ Date: Y Y M M D D

Received by: ____ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process, Flows, Sludge, Cooling, Water

Specials: WWTP, Other

Program: ____

NPDES No: ____

Receiving Stream Name: ____

Receiving Stream Conditions (velocity,etc): ____

Effluent Conditions: ____

Weather Conditions: overcast no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: ____

Sampling Techniques: grab d/s of bridge, NE bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~366~~ 362

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ____ PM

Lab Section: ____

Supervisor: MAR 02 1993

IL 532-1578
WPC 526 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300362
SAMPLING POINT DESC. : ROBINSON CK @ RR BRIDGE

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1320 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	7.6	P70300	(ROE) TDS @ 180C	MG/L	477
P00951	FLUORIDE,TOTAL	MG/L	0.24	P00940	CHLORIDE,TOTAL	MG/L	118 ?
P00945	SULFATE,TOTAL	MG/L	74	P00630	NITRATE&NO2-NTOTAL	MG/L	1.2
P00610	AMMONIA-N,TOTAL	MG/L	0.07	P32730	PHENOLS,TOTAL	UG/L	10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	0.08	P00310	BOD 5DAY	MG/L	2
P00335	COD,TOTAL	MG/L	12	P00530	SOLIDS,TOT.SUS.	MG/L	8
P00745	SULFIDE,TOTAL	MG/L	0.02K	P01002	ARSENIC,TOTAL	UG/L	1K
P01032	CHROMIUM,HEX	UG/L	50K	P71900	MERCURY,TOTAL	UG/L	0.05K
P00916	CALCIUM,TOTAL	MG/L	71.	P00927	MAGNESIUM,TOTAL	MG/L	15.
P00929	SODIUM,TOTAL	MG/L	90.	P00937	POTASSIUM,TOTAL	MG/L	3.9
P01105	ALUMINUM,TOTAL	UG/L	170	P01007	BARIUM,TOTAL	UG/L	92
P01022	BORON,TOTAL	UG/L	140	P01012	BERYLLIUM,TOTAL	UG/L	1K
P01027	CADMIUM,TOTAL	UG/L	5K	P01034	CHROMIUM,TOTAL	UG/L	5K
P01042	COPPER,TOTAL	UG/L	5K	P01037	COBALT,TOTAL	UG/L	5K
P01045	IRON,TOTAL	UG/L	870	P01051	LEAD,TOTAL	UG/L	50K
P01055	MANGANESE,TOTAL	UG/L	410	P01067	NICKEL,TOTAL	UG/L	15K
P01077	SILVER,TOTAL	UG/L	5K	P01082	STRONTIUM,TOTAL	UG/L	220
P01087	VANADIUM,TOTAL	UG/L	5K	P01092	ZINC,TOTAL	UG/L	95
P00020	TEMPERATURE,AIR	DEG.C	2	P00010	TEMPERATURE,WATER	DEG.C	3

(R00?
E-

Lab Sheet Color: IEPA - DMPC - FOS - LAB SHEET Field ID No.:

09-Funding Code: W P 6 6 10-Agency Routing C P 12-File Code: E F F L 13-Sample Type: A

15-Reporting: B 16-DIB: Basin B F C County 0 3 3 Plant 0 2 17-Sampling Program: M 6

18-Facility/Sample Pt: R O B I N S O N S E W A G E W O R K S

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 2 5 5 (H H M M) (24 hr.clock)

23-Instructions to Lab:

21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: E F F 0 2

Additional Lab Parameters	Field Parameters	Results
	501F0	35
CHLORIDE	Air Temp (°C)	3
	502F0	53
ICAP	Water Temp (°C)	12
	504F0	
Hg	Dissolved O_2	
	503F0	
CN	Conductance	
	500F0	
Fluoride	pH	
sulfate		
sulfide		
ROE		
phenol		
Cr^{+6}		

27-Received By: Date: Y Y M M D D

Received by: Date: Y Y M M D D

Circle One: Effluent Stream Special Influent Process Flows WWTP Sludge Cooling Water Other

Program:

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity, etc

Effluent Conditions: flow = 52% x 4.0 MG =

Weather Conditions: overcast, no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: organics (vol + semi-vol) @ 12:00n

Sampling Techniques: grab @ V-notch weir

FOR LABORATORY USE ONLY

LAB ID NO. B300370

Sample Received By:

Date Received: JAN 12 1993

Time Received: 10 AM P

Lab Section:

Supervisor: FEB 23 1993

Mail To:

Mayor and Council
City Hall
Robinson, IL 62454

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 8300370
SAMPLING POINT DESC. : ROBINSON STW

SUBMITTING SOURCE # : BFC 03302 SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1255 SAMPLING PROGRAM : M6

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP66 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : EFFL SAMPLE PURPOSE CODE : A REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.7	P70300	(ROE) TDS @ 180C	MG/L	: 725
P00951	FLUORIDE,TOTAL	MG/L	: 0.52	P00940	CHLORIDE,TOTAL	MG/L	: 73
P00945	SULFATE,TOTAL	MG/L	: 71	P00610	AMMONIA-N,TOTAL	MG/L	: 0.27
32730	PHENOLS,TOTAL	UG/L	: 10K	P00720	CYANIDE,TOTAL	MG/L	: 0.01K
80082	BOD 5DAY CARB(INH)	MG/L	: 8	P00530	SOLIDS,TOT.SUS.	MG/L	: 9
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01032	CHROMIUM,HEX	UG/L	: 50K
P71900	MERCURY,TOTAL	UG/L	: 0.05K	P00916	CALCIUM,TOTAL	MG/L	: 81.
00927	MAGNESIUM,TOTAL	MG/L	: 22.	P00929	SODIUM,TOTAL	MG/L	: 170
P00937	POTASSIUM,TOTAL	MG/L	: 5.8	P01105	ALUMINUM,TOTAL	UG/L	: 150K
P01007	BARIUM,TOTAL	UG/L	: 35	P01022	BORON,TOTAL	UG/L	: 160
P01012	BERYLLIUM,TOTAL	UG/L	: 1K	P01027	CADMIUM,TOTAL	UG/L	: 5K
P01034	CHROMIUM,TOTAL	UG/L	: 5K	P01042	COPPER,TOTAL	UG/L	: 5K
P01037	COBALT,TOTAL	UG/L	: 5K	P01045	IRON,TOTAL	UG/L	: 93
P01051	LEAD,TOTAL	UG/L	: 50K	P01055	MANGANESE,TOTAL	UG/L	: 56
P01067	NICKEL,TOTAL	UG/L	: 15K	P01077	SILVER,TOTAL	UG/L	: 5K
P01082	STRONTIUM,TOTAL	UG/L	: 160	P01087	VANADIUM,TOTAL	UG/L	: 5K
P01092	ZINC,TOTAL	UG/L	: 120	P00020	TEMPERATURE,AIR	DEG.C	: 3
P00010	TEMPERATURE,WATER	DEG.C	: 12				

(n001) 0-2

D329325

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.:

09-Funding Code: W P 6 6 10-Agency Routing C P 12-File Code: E F F L 13-Sample Type: A

15-Reporting: B 16-DID: Basin B F C County 0 3 3 Plant 0 2 17-Sampling Program: M 6

18-Facility/Sample Pt: R O B I N S O N S E W A G E W O R K S

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 2 2 0 (H H M M) (24 hr.clock)

23-Instructions to Lab: 21-Collected by: EMC 22-Transported by: EMC

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: ~~[illegible]~~

Additional Lab Parameters	Field Parameters	Results
~~[illegible]~~	501FO Air Temp (°C)	3
volatiles	502FO Water Temp (°C)	12
semi-volatiles	504FO Dissolved O_2	
	503FO Conductance	
	500FO pH	

27-Received By: Date: (Y Y M M D D)

Received by: Date: (Y Y M M D D)

Circle One: Effluent, Influent, Sludge, Stream, Process Flows, Cooling Water, Specials, WWTP, Other

Program:

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity,etc)

Effluent Conditions:

Weather Conditions:

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks:

Sampling Techniques: grab at V-notch weir

FOR LABORATORY USE ONLY

LAB ID NO. D329325

Sample Received By: HE/JB

Date Received: JAN 12 1993

Time Received: 11:30 AM PM

Lab Section: Thaika Thomas Springfield

Supervisor: J. Hurley 3-

1-Gal
2-40M

Mail To:

Mayor and Council
City Hall
Robinson, IL 62454

IL 532-1878
WPC 520 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D329325
SAMPLING POINT DESC. : ROBINSON SEWAGE WORKS/O-2

SUBMITTING SOURCE # : BFC 03302 SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1220 SAMPLING PROGRAM : M6

COLLECTED BY : EMC DELIVERED BY : M T
COMMENTS : VOLATILES/SEMIVOLATILES
FUNDING CODE : WP66 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : EFFL SAMPLE PURPOSE CODE : A REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1130 RECEIVED BY : H E
LAB OBSERVATIONS : 1 GAL/2-40ML TRIP BL SAM# : D329327
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L	: 0.05K
P39410	HEPTACHLOR	UG/L	: 0.05K
P39330	ALDRIN	UG/L	: 0.05K
P39420	HEPTACHLOR EPOXIDE	UG/L	: 0.05K
P39348	ALPHA-CHLORDANE	UG/L	: 0.05K
P39810	GAMMA-CHLORDANE	UG/L	: 0.05K
P39380	DIELDRIN	UG/L	: 0.05K
P39390	ENDRIN	UG/L	: 0.05K
P39480	METHOXYCHLOR	UG/L	: 0.25K
P39327	O,P'-DDE	UG/L	: 0.05K
P39320	P,P'-DDE	UG/L	: 0.05K
P39315	O,P'-DDD	UG/L	: 0.05K
P39310	P,P'-DDD	UG/L	: 0.05K
P39305	O,P'-DDT	UG/L	: 0.05K
P39300	P,P'-DDT	UG/L	: 0.05K
P34694	PHENOL	UG/L	: 5.0K
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L	: 5.0K
P34586	2-CHLOROPHENOL	UG/L	: 5.0K
P34565	1,3-DICHLOROBENZENE	UG/L	: 5.0K
P34571	1,4-DICHLOROBENZENE	UG/L	: 5.0K
P77147	BENZYL ALCOHOL	UG/L	: 5.0K
P34536	1,2-DICHLOROBENZENE	UG/L	: 5.0K
A00000	2-METHYLPHENOL	UG/L	: 5.0K
P34285	BIS(2-CHLOROISOPROPYL)ETHER	UG/L	: 5.0K
A00000	4-METHYLPHENOL	UG/L	: 5.0K
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L	: 5.0K
P34396	HEXACHLOROETHANE	UG/L	: 5.0K
P34447	NITROBENZENE	UG/L	: 5.0K
P34406	ISOPHORONE	UG/L	: 5.0K

SAMPLE NUMBER: 8329325

P34591	2-NITROPHENOL	UG/L	: 5.0K
P34606	2,4-DIMETHYLPHENOL	UG/L	: 5.0K
P77247	BENZOIC ACID	UG/L	: 50K
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 5.0K
P34601	2,4-DICHLOROPHENOL	UG/L	: 5.0K
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 5.0K
P34696	NAPHTHALENE	UG/L	: 5.0K
A00000	4-CHLOROANILINE	UG/L	: 5.0K
P34391	HEXACHLOROBUTADIENE	UG/L	: 5.0K
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 5.0K
P77416	2-METHYLNAPHTHALENE	UG/L	: 5.0K
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 5.0K
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 5.0K
P77687	2,4,5-TRICHLOROPHENOL	UG/L	: 5.0K
P34581	2-CHLORONAPHTHALENE	UG/L	: 5.0K
A00000	2-NITROANILINE	UG/L	: 10K
P34341	DIMETHYLPHTHALATE	UG/L	: 5.0K
P34200	ACENAPHTHYLENE	UG/L	: 5.0K
P34626	2,6-DINITROTOLUENE	UG/L	: 5.0K
P78300	3-NITROANILINE	UG/L	: 10K
P34205	ACENAPHTHENE	UG/L	: 5.0K
P34616	2,4-DINITROPHENOL	UG/L	: 10K
P34646	4-NITROPHENOL	UG/L	: 10K
P81302	DIBENZOFURAN	UG/L	: 5.0K
P34611	2,4-DINITROTOLUENE	UG/L	: 5.0K
P34336	DIETHYLPHTHALATE	UG/L	: 5.0K
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 5.0K
P34381	FLUORENE	UG/L	: 5.0K
A00000	4-NITROANILINE	UG/L	: 10K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 10K
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 5.0K
P39700	HEXACHLOROBENZENE	UG/L	: 5.0K
P39032	PENTACHLOROPHENOL	UG/L	: 10K
P34461	PHENANTHRENE	UG/L	: 5.0K
P34220	ANTHRACENE	UG/L	: 5.0K
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 5.0K
P34376	FLUORANTHENE	UG/L	: 5.0K
P34469	PYRENE	UG/L	: 5.0K
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 5.0K
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 10K
P34526	BENZO(A)ANTHRACENE	UG/L	: 5.0K
P34320	CHRYSENE	UG/L	: 5.0K
P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 5.0K

SAMPLE NUMBER : D329325

P34596	DI-N-OCTYLPHTHALATE	UG/L	: 5.0K
P34230	BENZO(B)FLUORANTHENE	UG/L	: 5.0K
P34242	BENZO(K)FLUORANTHENE	UG/L	: 5.0K
P34247	BENZO(A)PYRENE	UG/L	: 5.0K
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 5.0K
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 5.0K
P34521	BENZO(GHI)PERYLENE	UG/L	: 5.0K
P34418	CHLOROMETHANE	UG/L	: 10K
P34413	BROMOMETHANE	UG/L	: 10K
P39175	VINYL CHLORIDE	UG/L	: 10K
P34311	CHLOROETHANE	UG/L	: 10K
P34423	METHYLENE CHLORIDE	UG/L	: 5.0K
P81552	ACETONE	UG/L	: 1300
P34488	TRICHLOROFLUOROMETHANE	UG/L	: 5.0K
P77277	BROMOCHLOROMETHANE	UG/L	: 5.0K
P77041	CARBON DISULFIDE	UG/L	: 5.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 5.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P77093	CIS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P32106	CHLOROFORM	UG/L	: 5.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 5.0K
P81595	2-BUTANONE(MEK)	UG/L	: 10K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0K
P77057	VINYL ACETATE	UG/L	: 10K
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0K
P34541	1,2-DICHLOROPROPANE	UG/L	: 5.0K
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P39180	TRICHLOROETHYLENE	UG/L	: 5.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0K
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0K
P78124	BENZENE	UG/L	: 5.0K
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P34576	2-CHLOROETHYLVINYL ETHER	UG/L	: 5.0K
P32104	BROMOFORM	UG/L	: 5.0K
P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10K
P77103	2-HEXANONE(MBK)	UG/L	: 10K
P34475	TETRACHLOROETHYLENE	UG/L	: 5.0K
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0K
P78131	TOLUENE	UG/L	: 5.0K
P34301	CHLOROBENZENE	UG/L	: 5.0K

SAMPLE NUMBER : 0329325

P78113 ETHYLBENZENE	UG/L	: 5.0K
P77128 STYRENE	UG/L	: 5.0K
P81551 XYLENE	UG/L	: 5.0K

: .
: DIAZINON UG/L ; 0.1K

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No. 5-7

09-Funding Code: W P O G 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-OID: Basin _ _ _ _ County _ _ _ Plant _ _ 17-Sampling Program: _ _

18-Facility/Sample Pt: R O B I N S O N _ C K _ D / S _ O F _ C O N F L O F _ Q U A I L (B F C - 1 9)

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 4 0 5 (H H M M) (24 hr.clock)

23-Instructions to Lab: _ _ _ _ _ _ _ _ _ _

21-Collected by: E M C 22-Transported by: E M C

27-Received By: _______ Date: Y Y M M D D

Received by: _______ Date: Y Y M M D D

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

Circle One: Effluent (Stream) Specials: Influent Process Flows WWTP Sludge Cooling Water Other

Program: B

03-Lab Parameter Group: E F E 0 5

NPDES No: ______

Additional Lab Parameters	Field Parameters	Results
ICAP	501F0 Air Temp (°C) 35	2
sulfate	502F0 Water Temp (°C) 44	7
sulfide	504F0 Dissolved O2	
ROE	503F0 Conductance	
COD	500F0 pH	
chloride		
arsenic		
fluoride		
phenol		
Cr+6		
Hg		

Receiving Stream Name: ______

Receiving Stream Conditions (velocity,etc): ______

Effluent Conditions: ______

Weather Conditions: ______

Comments & Unusual Conditions & Severity: (If applicable, Stamp "No Visible Problem This Visit") ~15' d/s of very large ~~fallen~~ tree fallen across creek

Remarks: BFC-19 is supposed to be 50 yds d/s of confl. w/ Quail Ck, 0.4 mi d/s of Robinson 001

Sampling Techniques: grab from > bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300363

Sample Received By: [signature]

Date Received: JAN 12 1993

Time Received: 10 AM ______ PM

Lab Section: ______

Supervisor: MAR 02 1993 [signature]

IL 532-1279
WPC 326 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300363
SAMPLING POINT DESC. : ROBINSON CK D/S OF CNFL QUAIL

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1405 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	7.6	P70300	(ROE) TDS @ 180C	MG/L	455
P00951	FLUORIDE,TOTAL	MG/L	0.31	P00940	CHLORIDE,TOTAL	MG/L	129
P00945	SULFATE,TOTAL	MG/L	58	P00630	NITRATE&NO2-NTOTAL	MG/L	1.1
P00610	AMMONIA-N,TOTAL	MG/L	0.15	P32730	PHENOLS,TOTAL	UG/L	10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	0.241	P00310	BOD 5DAY	MG/L	5
P00335	COD,TOTAL	MG/L	20	P00530	SOLIDS,TOT.SUS.	MG/L	11
P00745	SULFIDE,TOTAL	MG/L	0.02K	P01002	ARSENIC,TOTAL	UG/L	1K
P01032	CHROMIUM,HEX	UG/L	50K	P71900	MERCURY,TOTAL	UG/L	0.05K
P00916	CALCIUM,TOTAL	MG/L	58.	P00927	MAGNESIUM,TOTAL	MG/L	15.
P00929	SODIUM,TOTAL	MG/L	90.	P00937	POTASSIUM,TOTAL	MG/L	4.4
P01105	ALUMINUM,TOTAL	UG/L	210	P01007	BARIUM,TOTAL	UG/L	51
P01022	BORON,TOTAL	UG/L	130	P01012	BERYLLIUM,TOTAL	UG/L	1K
P01027	CADMIUM,TOTAL	UG/L	5K	P01034	CHROMIUM,TOTAL	UG/L	5K
P01042	COPPER,TOTAL	UG/L	5K	P01037	COBALT,TOTAL	UG/L	5K
P01045	IRON,TOTAL	UG/L	480	P01051	LEAD,TOTAL	UG/L	50K
P01055	MANGANESE,TOTAL	UG/L	170	P01067	NICKEL,TOTAL	UG/L	15K
P01077	SILVER,TOTAL	UG/L	5K	P01082	STRONTIUM,TOTAL	UG/L	140
P01087	VANADIUM,TOTAL	UG/L	5K	P01092	ZINC,TOTAL	UG/L	110
P00020	TEMPERATURE,AIR	DEG.C	2	P00010	TEMPERATURE,WATER	DEG.C	7

Lab Sheet Color: IEPA - DNPC - FOS - LAB SHEET Field ID No.: 59

Funding Code: N P O 6 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-DID: Basin ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample Pt: R O B I N S O N C K @ F A R M R D (B F C - 2 5)

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 5 2 5 (H H M M) (24 hr.clock)

23-Instructions to Lab: ___ 21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E E F O 5

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO Air Temp (°C)	2
sulfate	502FO Water Temp (°C)	5
sulfide	504FO Dissolved O_2	
ROE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process Flows, Sludge, Cooling Water

Specials: WWTP, Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity,etc): ___

Effluent Conditions: ___

Weather Conditions: overcast, no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: ___

Sampling Techniques: grab from d/s of bridge 5 point

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300365

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: MAR 02 1993

IL 532-1378
WPC 526 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 8300365
SAMPLING POINT DESC. : ROBINSON CK @ FARM RD

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1525 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : 3

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.6	P70300	(ROE) TDS @ 180C	MG/L	: 436
P00951	FLUORIDE,TOTAL	MG/L	: 0.30	P00940	CHLORIDE,TOTAL	MG/L	: 124
P00945	SULFATE,TOTAL	MG/L	: 67	P00630	NITRATE&NO2-NTOTAL	MG/L	: 0.95
P00610	AMMONIA-N,TOTAL	MG/L	: 0.09	P32730	PHENOLS,TOTAL	UG/L	: 10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	: 0.20	P00310	BOD 5DAY	MG/L	: 4
P00335	COD,TOTAL	MG/L	: 18	P00530	SOLIDS,TOT.SUS.	MG/L	: 6
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01002	ARSENIC,TOTAL	UG/L	: 1K
P01032	CHROMIUM,HEX	UG/L	: 50K	P71900	MERCURY,TOTAL	UG/L	: 0.05K
P00916	CALCIUM,TOTAL	MG/L	: 59.	P00927	MAGNESIUM,TOTAL	MG/L	: 15.
P00929	SODIUM,TOTAL	MG/L	: 84.	P00937	POTASSIUM,TOTAL	MG/L	: 4.2
P01105	ALUMINUM,TOTAL	UG/L	: 230	P01007	BARIUM,TOTAL	UG/L	: 53
P01022	BORON,TOTAL	UG/L	: 97	P01012	BERYLLIUM,TOTAL	UG/L	: 1K
P01027	CADMIUM,TOTAL	UG/L	: 5K	P01034	CHROMIUM,TOTAL	UG/L	: 5K
P01042	COPPER,TOTAL	UG/L	: 5K	P01037	COBALT,TOTAL	UG/L	: 5K
P01045	IRON,TOTAL	UG/L	: 490	P01051	LEAD,TOTAL	UG/L	: 50K
P01055	MANGANESE,TOTAL	UG/L	: 140	P01067	NICKEL,TOTAL	UG/L	: 15K
P01077	SILVER,TOTAL	UG/L	: 5K	P01082	STRONTIUM,TOTAL	UG/L	: 130
P01087	VANADIUM,TOTAL	UG/L	: 5K	P01092	ZINC,TOTAL	UG/L	: 50K
P00020	TEMPERATURE,AIR	DEG.C	: 2	P00010	TEMPERATURE,WATER	DEG.C	: 5

(M001)

Lab Sheet Color: IEPA - DWPC - FOS - LAB SHEET Field ID No.: E6

09-Funding Code: W P 6 6 10-Agency Routing C P 12-File Code: E F F L 13-Sample Type: E

15-Reporting: B 16-DID Basin B F C County 0 3 3 Plant 0 1 17-Sampling Program: M 6

18-Facility/Sample Pt: M A R A T H O N O I L R O B I N S O N R E F I N E R Y (0 0 1)

19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 5 4 5 (H H M M) (24 hr.clock)

23-Instructions to Lab:

21-Collected by: E M C 22-Transported by: E M C

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E F F 0 6

Additional Lab Parameters	Field Parameters	Results
PHENOLS	501F0 Air Temp (°C) 35	2
R.O.E.	502F0 Water Temp (°C) 56	32
CHROMIUM (HEX)	504F0 Dissolved O_2	
ICAP	503F0 Conductance	
CHLORIDE	500F0 pH	
[illegible]		
SULFIDES		
cyanide		
fluoride		
Hg		
TOC		
sulfate		

27-Received By: Date: (Y Y M M D D)

Received by: Date: (Y Y M M D D)

Circle One: Effluent, Stream, Influent, Process Flows, Sludge, Cooling Water

Specials: WWTP, Other

Program:

NPDES No:

Receiving Stream Name:

Receiving Stream Conditions (velocity,etc):

Effluent Conditions: sl tan cast, refinery odor

Weather Conditions: overcast no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks:

Sampling Techniques: gasket outfall on Robinson Creek

FOR LABORATORY USE ONLY

LAB ID NO. B300~~300~~ 371

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM PM

Lab Section:

Supervisor: [illegible] FEB 23 1993

Mail To:

Environmental Coordinator
Marathon Petroleum Company
Robinson, IL 62454

IL 532-1373
WPC 526 6/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300371
SAMPLING POINT DESC. : MARATHON OIL ROBINSON REFINERY

SUBMITTING SOURCE # : BFC 03301 SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1545 SAMPLING PROGRAM : M6

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP66 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : EFFL SAMPLE PURPOSE CODE : E REPORTING INDICATOR : R

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.5	P70300	(ROE) TDS @ 180C	MG/L	: [redacted]
P00951	FLUORIDE,TOTAL	MG/L	: 0.60	P00940	CHLORIDE,TOTAL	MG/L	: 43
P00945	SULFATE,TOTAL	MG/L	: 97	P00610	AMMONIA-N,TOTAL	MG/L	: 0.01K
P32730	PHENOLS,TOTAL	UG/L	: 10K	P00720	CYANIDE,TOTAL	MG/L	: 0.01K
P00310	BOD 5DAY	MG/L	: 1	P00335	COD,TOTAL	MG/L	: 32
P00680	CARBON,T-ORG(TOC)	MG/L	: 13	P00530	SOLIDS,TOT.SUS.	MG/L	: 5
P00745	SULFIDE,TOTAL	MG/L	: 0.02K	P01032	CHROMIUM,HEX	UG/L	: 50K
P71900	MERCURY,TOTAL	UG/L	: 0.05K	P00916	CALCIUM,TOTAL	MG/L	: 140
P00927	MAGNESIUM,TOTAL	MG/L	: 32.	P00929	SODIUM,TOTAL	MG/L	: 330
P00937	POTASSIUM,TOTAL	MG/L	: 5.6	P01105	ALUMINUM,TOTAL	UG/L	: 150K
P01007	BARIUM,TOTAL	UG/L	: 120	P01022	BORON,TOTAL	UG/L	: 200
P01012	BERYLLIUM,TOTAL	UG/L	: 1K	P01027	CADMIUM,TOTAL	UG/L	: 5K
P01034	CHROMIUM,TOTAL	UG/L	: 66	P01042	COPPER,TOTAL	UG/L	: 5K
P01037	COBALT,TOTAL	UG/L	: 5K	P01045	IRON,TOTAL	UG/L	: 69
P01051	LEAD,TOTAL	UG/L	: 50K	P01055	MANGANESE,TOTAL	UG/L	: 35
P01067	NICKEL,TOTAL	UG/L	: 15	P01077	SILVER,TOTAL	UG/L	: 5K
P01082	STRONTIUM,TOTAL	UG/L	: 1400	P01097	VANADIUM,TOTAL	UG/L	: 5K
P01092	ZINC,TOTAL	UG/L	: 34	P00020	TEMPERATURE,AIR	DEG.C	: 2
P00010	TEMPERATURE,WATER	DEG.C	: 30 ←				

Lab Sheet Code: IEPA - DWPC - FOS - LAB SHEET Field ID No.: 5-8

09-Funding Code: W D 6 10-Agency Routing C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: B 16-DID: Basin ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample Pt: M A R A T H O N _ C K _ @ _ A T _ 3 3 R R _ _ _ (B F C A - 2 4) T R A C K S _ 19-Begin Date: 9 3 0 1 1 (Y Y M M D D) 20-Begin (24 hr.clock) 1 4 5 _ (H H M M)

23-Instructions to Lab: _____ 21-Collected by: E M C 22-Transported by: E M C

Composite Sample _____

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E F F O S

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO Air Temp (°C)	2
Sulfate	502FO Water Temp (°C)	5
Sulfide	504FO Dissolved O_2	
ROE	503FO Conductance	
COD	500FO pH	
Chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		
OIL		

27-Received By: _____ Date: (Y Y M M D D)

Received by: _____ Date: (Y Y M M D D)

Circle One: Effluent, Stream, Influent, Process Flows, Sludge, Cooling Water

Specials: WWTP, Other

Program: _____

NPDES No: _____

Receiving Stream Name: _____

Receiving Stream Conditions (velocity,etc): — blowish black oily sheen; petroleum odor

Effluent Conditions: _____

Weather Conditions: overcast no wind

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: _____

Sampling Techniques: grab from w bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~368~~ 364

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: _____

Supervisor: MAR 02 1993

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300364
SAMPLING POINT DESC. : MARATHON CK @ RR TRACKS

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1450 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH-LABORATORY	UNITS	: 7.6	P70300	(ROE) TDS @ 180C	MG/L	: 322
P00951	FLUORIDE,TOTAL	MG/L	: 0.28	P00940	CHLORIDE,TOTAL	MG/L	: 46
P00945	SULFATE,TOTAL	MG/L	: 38	P00630	NITRATE&NO2-NTOTAL	MG/L	: 0.58
P00610	AMMONIA-N,TOTAL	MG/L	: 0.01K	P32730	PHENOLS,TOTAL	UG/L	: 10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	: 0.06	P00310	BOD 5DAY	MG/L	: 1
P00335	COD,TOTAL	MG/L	[redacted]	P00530	SOLIDS,TOT.SUS.	MG/L	: 24
P00556	OIL,GRAVIMETRIC	MG/L	: 2	P00745	SULFIDE,TOTAL	MG/L	: 0.02K
P01002	ARSENIC,TOTAL	UG/L	: 1.8	P01032	CHROMIUM,HEX	UG/L	: 50K
P71900	MERCURY,TOTAL	UG/L	: 0.05K	P00916	CALCIUM,TOTAL	MG/L	: 49.
P00927	MAGNESIUM,TOTAL	MG/L	: 13.	P00929	SODIUM,TOTAL	MG/L	: 52.
P00937	POTASSIUM,TOTAL	MG/L	: 2.2	P01105	ALUMINUM,TOTAL	UG/L	: 650
P01007	BARIUM,TOTAL	UG/L	: 42	P01022	BORON,TOTAL	UG/L	: 57
P01012	BERYLLIUM,TOTAL	UG/L	: 1K	P01027	CADMIUM,TOTAL	UG/L	: 5K
P01034	CHROMIUM,TOTAL	UG/L	: 9	P01042	COPPER,TOTAL	UG/L	: 5K
P01037	COBALT,TOTAL	UG/L	: 5K	P01045	IRON,TOTAL	UG/L	: 960
P01051	LEAD,TOTAL	UG/L	: 50K	P01055	MANGANESE,TOTAL	UG/L	: 140
P01067	NICKEL,TOTAL	UG/L	: 15K	P01077	SILVER,TOTAL	UG/L	: 5K
P01082	STRONTIUM,TOTAL	UG/L	: 130	P01087	VANADIUM,TOTAL	UG/L	: 14
P01092	ZINC,TOTAL	UG/L	: 50K	P00020	TEMPERATURE,AIR	DEG.C	: 2
P00010	TEMPERATURE,WATER	DEG.C	: 5				

Field ID No.: [illegible]

[illegible] Agency Routing CP 12-File Code: STRM 13-Sample Type: S

15-Reporting [illegible] County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sam[illegible] [illegible]ATHON_CK_@_RR_TRACKS_

19-Begin 93 01 11 20-Begin 1455
Date: Y Y M M D D H H M M

(24 hr.clock)

23-Instructions to Lab: ___ 21-Collected by: EMC 22-Transported by: EMC

Composite Sample

Composite Sample

Ending Date: [illegible] Y Y M M D D

Ending Time: [illegible]

Ending Time: [illegible] H H M M

(24 hr.clock)

03-Lab Parameter Group: [illegible]

03-Lab Parameter Group: ___

Additional Lab Parameters	Field Parameters	Results
volatiles	Air Temp (°C)	2
semi-volatiles	Water Temp (°C)	5
	Dissolved O2	
	Conductance	
	pH	

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent Stream Influent Process Flows Sludge Cooling Water

Specials: WWTP Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity,etc): ___

Effluent Conditions: ___

Weather Conditions: ___

Comments & Unusual Conditions & Severity:(If applicable,Stamp- "No Visible Problem This Visit")

Re[illegible]

S[illegible]iques:
[illegible] west bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. D329326

Sample Received By: HE/JB

Date Received: JAN 12 1993

Time Received: 11:30 AM ___ PM

Lab Section: Mark Thomas Springfield

Supervisor: J Henley 3-9-9

1-Gal
2-40ml

IL 532-1878
WPC 520 8/89

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D329326
SAMPLING POINT DESC. : MARATHON CK @ RR TRACKS/0-3

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1455 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : M T
COMMENTS : VOLATILES/SEMIVOLATILES
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1130 RECEIVED BY : H E
LAB OBSERVATIONS : 1 GAL/2-40ML TRIP BL SAM# : D329327
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39340	GAMMA-BHC (LINDANE)	UG/L	: 0.05K
P39410	HEPTACHLOR	UG/L	: 0.05K
P39330	ALDRIN	UG/L	: 0.05K
P39420	HEPTACHLOR EPOXIDE	UG/L	: 0.05K
P39348	ALPHA-CHLORDANE	UG/L	: 0.05K
P39810	GAMMA-CHLORDANE	UG/L	: 0.05K
P39380	DIELDRIN	UG/L	: 0.05K
P39390	ENDRIN	UG/L	: 0.05K
P39480	METHOXYCHLOR	UG/L	: 0.25K
P39327	O,P'-DDE	UG/L	: 0.05K
P39320	P,P'-DDE	UG/L	: 0.05K
P39315	O,P'-DDD	UG/L	: 0.05K
P39310	P,P'-DDD	UG/L	: 0.05K
P39305	O,P'-DDT	UG/L	: 0.05K
P39300	P,P'-DDT	UG/L	: 0.05K
P34694	PHENOL	UG/L	: 5.0K
P34273	BIS(2-CHLOROETHYL)ETHER	UG/L	: 5.0K
P34586	2-CHLOROPHENOL	UG/L	: 5.0K
P34566	1,3-DICHLOROBENZENE	UG/L	: 5.0K
P34571	1,4-DICHLOROBENZENE	UG/L	: 5.0K
P77147	BENZYL ALCOHOL	UG/L	: 5.0K
P34536	1,2-DICHLOROBENZENE	UG/L	: 5.0K
A00000	2-METHYLPHENOL	UG/L	: 5.0K
P34263	BIS(2-CHLOROISOPROPYL)ETHER	UG/L	: 5.0K
A00000	4-METHYLPHENOL	UG/L	: 5.0K
P34428	N-NITROSO-DI-N-PROPYLAMINE	UG/L	: 5.0K
P34396	HEXACHLOROETHANE	UG/L	: 5.0K
P34447	NITROBENZENE	UG/L	: 5.0K
P34408	ISOPHORONE	UG/L	: 5.0K

SAMPLE NUMBER : D329326

P34591	2-NITROPHENOL	UG/L	: 5.0K
P34606	2,4-DIMETHYLPHENOL	UG/L	: 5.0K
P77247	BENZOIC ACID	UG/L	: 50K
P34278	BIS(2-CHLOROETHOXY)METHANE	UG/L	: 5.0K
P34601	2,4-DICHLOROPHENOL	UG/L	: 5.0K
P34551	1,2,4-TRICHLOROBENZENE	UG/L	: 5.0K
P34696	NAPHTHALENE	UG/L	: 5.0K
A00000	4-CHLOROANILINE	UG/L	: 5.0K
P34391	HEXACHLOROBUTADIENE	UG/L	: 5.0K
P34452	4-CHLORO-3-METHYLPHENOL	UG/L	: 5.0K
P77416	2-METHYLNAPHTHALENE	UG/L	: 5.0K
P34386	HEXACHLOROCYCLOPENTADIENE	UG/L	: 5.0K
P34621	2,4,6-TRICHLOROPHENOL	UG/L	: 5.0K
P77687	2,4,5-TRICHLOROPHENOL	UG/L	: 5.0K
P34581	2-CHLORONAPHTHALENE	UG/L	: 5.0K
A00000	2-NITROANILINE	UG/L	: 10K
P34341	DIMETHYLPHTHALATE	UG/L	: 5.0K
P34200	ACENAPHTHYLENE	UG/L	: 5.0K
P34626	2,6-DINITROTOLUENE	UG/L	: 5.0K
P78300	3-NITROANILINE	UG/L	: 10K
P34205	ACENAPHTHENE	UG/L	: 5.0K
P34616	2,4-DINITROPHENOL	UG/L	: 10K
P34646	4-NITROPHENOL	UG/L	: 10K
P81302	DIBENZOFURAN	UG/L	: 5.0K
P34611	2,4-DINITROTOLUENE	UG/L	: 5.0K
P34336	DIETHYLPHTHALATE	UG/L	: 5.0K
P34641	4-CHLOROPHENYL PHENYL ETHER	UG/L	: 5.0K
P34361	FLUORENE	UG/L	: 5.0K
A00000	4-NITROANILINE	UG/L	: 10K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/L	: 10K
P34636	4-BROMOPHENYL PHENYL ETHER	UG/L	: 5.0K
P39700	HEXACHLOROBENZENE	UG/L	: 5.0K
P39032	PENTACHLOROPHENOL	UG/L	: 10K
P34461	PHENANTHRENE	UG/L	: 5.0K
P34220	ANTHRACENE	UG/L	: 5.0K
P39110	DI-N-BUTYLPHTHLATE	UG/L	: 5.0K
P34376	FLUORANTHENE	UG/L	: 5.0K
P34469	PYRENE	UG/L	: 5.0K
P34292	BUTYL BENZYL PHTHALATE	UG/L	: 5.0K
P34631	3,3'-DICHLOROBENZIDINE	UG/L	: 10K
P34526	BENZO(A)ANTHRACENE	UG/L	: 5.0K
P34320	CHRYSENE	UG/L	: 5.0K
P39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	: 5.0K

SAMPLE NUMBER : 0329326

P34596	DI-N-OCTYLPHTHALATE	UG/L	: 5.0K
P34230	BENZO(B)FLUORANTHENE	UG/L	: 5.0K
P34242	BENZO(K)FLUORANTHENE	UG/L	: 5.0K
P34247	BENZO(A)PYRENE	UG/L	: 5.0K
P34403	INDENO(1,2,3-CD)PYRENE	UG/L	: 5.0K
P34556	DIBENZO(AH)ANTHRACENE	UG/L	: 5.0K
P34521	BENZO(GHI)PERYLENE	UG/L	: 5.0K
P34418	CHLOROMETHANE	UG/L	: 10K
P34413	BROMOMETHANE	UG/L	: 10K
P39175	VINYL CHLORIDE	UG/L	: 10K
P34311	CHLOROETHANE	UG/L	: 10K
P34423	METHYLENE CHLORIDE	UG/L	: 5.0K
P81552	ACETONE	UG/L	: 97
P34488	TRICHLOROFLUOROMETHANE	UG/L	: 5.0K
P77277	BROMOCHLOROMETHANE	UG/L	: 5.0K
P77041	CARBON DISULFIDE	UG/L	: 5.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 5.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P77093	CIS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P32106	CHLOROFORM	UG/L	: 5.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 5.0K
P81595	2-BUTANONE(MEK)	UG/L	: 10K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0K
P77057	VINYL ACETATE	UG/L	: 10K
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0K
P34541	1,2-DICHLOROPROPANE	UG/L	: 5.0K
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P39180	TRICHLOROETHYLENE	UG/L	: 5.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0K
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0K
P76124	BENZENE	UG/L	: 5.0K
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P34576	2-CHLOROETHYLVINYL ETHER	UG/L	: 5.0K
P32104	BROMOFORM	UG/L	: 5.0K
P76133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10K
P77103	2-HEXANONE(MBK)	UG/L	: 10K
P34475	TETRACHLOROETHYLENE	UG/L	: 5.0K
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0K
P76131	TOLUENE	UG/L	: 5.0K
P34301	CHLOROBENZENE	UG/L	: 5.0K

MPLE NUMBER : D329326

78113	ETHYLBENZENE	UG/L : 5.0K
77128	STYRENE	UG/L : 5.0K
81551	XYLENE	UG/L : 5.0K

: .
: DIAZINON UG/L : 0.1K

Composite Sample
Ending Date: 5 2 [illegible]

Ending Time: 5 2 [illegible]

03 Lab Parameter Group: [illegible]

Additional Lab Parameters	Field Parameters
[illegible]	
[illegible]	
[illegible]	
[illegible]	
[illegible]	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D329327
SAMPLING POINT DESC. : BLANK W/29323-26 ROBINSON

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1455 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : M T
COMMENTS : VOCS
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1130 RECEIVED BY : H E
LAB OBSERVATIONS : 2-40ML BLANK TRIP BL SAMP :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P34418	CHLOROMETHANE	UG/L	: 10K
P34413	BROMOMETHANE	UG/L	: 10K
P39175	VINYL CHLORIDE	UG/L	: 10K
P34311	CHLOROETHANE	UG/L	: 10K
P34423	METHYLENE CHLORIDE	UG/L	: 5.0K
P81552	ACETONE	UG/L	: 10K
P34488	TRICHLOROFLUOROMETHANE	UG/L	: 5.0K
P77277	BROMOCHLOROMETHANE	UG/L	: 5.0K
P77041	CARBON DISULFIDE	UG/L	: 5.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 5.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 5.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P77093	CIS-1,2-DICHLOROETHYLENE	UG/L	: 5.0K
P32106	CHLOROFORM	UG/L	: 5.0K
P34531	1,2-DICHLOROETHANE	UG/L	: 5.0K
P81595	2-BUTANONE(MEK)	UG/L	: 10K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 5.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 5.0K
P77057	VINYL ACETATE	UG/L	: 10K
P32101	DICHLOROBROMOMETHANE	UG/L	: 5.0K
P34541	1,2-DICHLOROPROPANE	UG/L	: 5.0K
P34704	CIS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P39180	TRICHLOROETHYLENE	UG/L	: 5.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 5.0K
P34511	1,1,2-TRICHLOROETHANE	UG/L	: 5.0K
P78124	BENZENE	UG/L	: 5.0K
P34699	TRANS-1,3-DICHLOROPROPENE	UG/L	: 5.0K
P34570	2-CHLOROETHYLVINYL ETHER	UG/L	: 5.0K
P32104	BROMOFORM	UG/L	: 5.0K

SAMPLE NUMBER : D329327

P78133	4-METHYL-2-PENTANONE(MIBK)	UG/L	: 10K
P77103	2-HEXANONE(MBK)	UG/L	: 10K
P34475	TETRACHLOROETHYLENE	UG/L	: 5.0K
P34516	1,1,2,2-TETRACHLOROETHANE	UG/L	: 5.0K
P78131	TOLUENE	UG/L	: 5.0K
P34301	CHLOROBENZENE	UG/L	: 5.0K
P78113	ETHYLBENZENE	UG/L	: 5.0K
P77128	STYRENE	UG/L	: 5.0K
P81551	XYLENE	UG/L	: 5.0K

[illegible] - LAB SHEET Field ID No.: 540

[illegible] 10-Agency Routing C P 12-File Code: S I R M 13-Sample Type: S

15-Reporting: [illegible] County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sample [illegible] O B I N S O N _ C K _ D / S _ O F _ C O N F L

W / _ M A R [illegible] H O N _____ 19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 6 1 0 (H H M M)

23-Instructions to Lab: _____ 21-Collected by: E M C 22-Transported by: E M C (24 hr.clock)

Composite Sample Ending Date: 5 2 9 F 0 Y Y M M D D

Ending Time: 5 2 9 F 0 H H M M (24-hr.clock)

03-Lab Parameter Group: E P P D S

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO Air Temp (°C) 34	1
Sulfate	502FO Water Temp (°C) 46	8
sulfide	504FO Dissolved O_2	
ROE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr^{+6}		
Hg		

27-Received By: _____ Date: Y Y M M D D

Received by: _____ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process, Flows, Sludge, Cooling, Water

Specials: WWTP, Other

Program: _____

NPDES No: _____

Receiving Stream Name: _____

Receiving Stream Conditions (velocity,etc): _____

Effluent Conditions: _____

Weather Conditions: _____

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit") ~25' d/s of small ck entering from north

Remarks: ~~BFC-26 is supposed to be 200 yds d/s of Marathon [illegible] 0.3 mi d/s of farm road~~

Sampling Techniques: grab from gravel bar in center of stream (south side)

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~370~~ 366

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: _____

Supervisor: [illegible] FEB 26 1993

IL 532-1878
WPC 532 8/87

[illegible] ENVIRONMENTAL PROTECTION AGENCY

SA[illegible]
SAMPLING [illegible] [illegible]NSON CK D/S OF CNFL W/ MARATHON

SUBMITTING SOURC[illegible] SITE # :
DATE COLLECTED : [illegible] TIME COLLECTED : 1610 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISOR INITIALS : RPF NOTE : K = LESS THAN VALUE

P0[illegible]	[illegible]	UNITS : 7.6	P70300	(ROE) TDS @ 180C	MG/L : 686
P0095[illegible]	[illegible]IDE,TOTAL	[illegible] : 0.36	P00940	CHLORIDE,TOTAL	MG/L : 75
P00945	[illegible],TOTAL	[illegible] : 160	P00630	NITRATE&NO2-N,TOT[illegible]	MG/L : 3.0
P00610	AMMONIA-N,TOTAL	MG/L : 0.08	P32730	PHENOLS,TOTAL	UG/L : 10K
P00[illegible]	PHOSPHOROS-P,TOTAL	MG/L : 0.67	P00310	BOD 5DAY	MG/L : 3
P0[illegible]	[illegible],TOTAL	MG/L : 21	P00530	SOLIDS,TOT[illegible]	MG/L : 6
P0[illegible]	[illegible]E,TO[illegible]	MG/L [illegible]K	P01002	ARSENIC,TOTAL	UG/L : 6.7
P01032	CHROMIUM,H[illegible]	UG/L : 50K	P71900	MERCURY,TOTAL	UG/L : 0.05K
P00916	CALCIUM,TOTAL	MG/L : 73.	P00927	MAGNESIUM,TOTAL	MG/L : 19.
P00[illegible]	[illegible]DIUM,TOT[illegible]	MG/L : 140	P00937	POTASSIUM,TOTAL	MG/L : 4.7
P01105	ALUMINUM,TOTAL	UG/L : 200	P01007	BARIUM,TOTAL	UG/L : 66
P01022	[illegible]RON,TOTAL	UG/L : 120	P01012	BERYLLIUM,TOTAL	UG/L : 1K
P0102[illegible]	CADMIUM,TOTAL	UG/L : 5K	P01034	CHROMIUM,TOTAL	UG/L : 15
P01042	COPPER,TOTAL	UG/L : 5K	P01037	COBALT,TOTAL	UG/L : 5K
P0104[illegible]	IRON,TOTAL	UG/L : 430	P01051	LEAD,TOTAL	UG/L : 50K
P01055	MANGAN[illegible]	[illegible]	P01067	NICKEL,TOTAL	UG/L : 15K
P01077	SILVER,TOTAL	UG/L : 5K	P01082	STRONTIUM,TOTAL	UG/L : [illegible]
P01087	VANADIUM,TOTAL	UG/L : 5K	P01092	ZINC,TOTAL	UG/L : 53
P00020	TEMPERATURE,AIR	DEG.C : 1	P00010	TEMPERATURE,WATER	DEG.C : [illegible]

Field ID No.: S-1

09-Funding: 10-Agency Routing: C P 12-File Code: S T R M 13-Sample Type: S

15-Reporting: 8 T... in ___ County ___ Plant ___ 17-Sampling Program: ___

18-Facility/Sampl... ROBINSON CK @ RT 1 (BEC-11) ___ 19-Begin Date: 9 3 0 1 1 1 (Y Y M M D D) 20-Begin 1 7 0 0 (H H M M)

23-Instructions to Lab: ___ 21-Collected by: EMC 22-Transported by: EMC (24 hr.clock)

Composite Sample Ending Date: 5 2 9 F 0 (Y Y M M D D)

Ending Time: 5 2 9 F 0 (H H M M) (24-hr.clock)

03-Lab Parameter Group: E E E D S

Additional Lab Parameters	Field Parameters	Results
ICAP	501FO 35 Air Temp (°C)	2
sulfate	502FO 45 Water Temp (°C)	7
sulfide	504FO Dissolved O_2	
ROE	503FO Conductance	
COD	500FO pH	
chloride		
arsenic		
fluoride		
phenol		
Cr+6		
Hg		

27-Received By: ___ Date: Y Y M M D D

Received by: ___ Date: Y Y M M D D

Circle One: Effluent, Stream, Influent, Process, Flows, Sludge, Cooling, Water

Specials: WWTP, Other

Program: ___

NPDES No: ___

Receiving Stream Name: ___

Receiving Stream Conditions (velocity,etc): ___

Effluent Conditions: ___

Weather Conditions: ___

Comments & Unusual Conditions & Severity: (If applicable, Stamp- "No Visible Problem This Visit")

Remarks: ___

Sampling Techniques: grab from u/s of bridge S bank

Mail To:

FOR LABORATORY USE ONLY

LAB ID NO. B300~~371~~ 367

Sample Received By: [illegible]

Date Received: JAN 12 1993

Time Received: 10 AM ___ PM

Lab Section: ___

Supervisor: FEB 26 1993 [illegible]

IL 532-1579
WPC 526 8/87

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : B300367
SAMPLING POINT DESC. : ROBINSON CK @ RT 1

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 930111 TIME COLLECTED : 1700 SAMPLING PROGRAM :

COLLECTED BY : EMC DELIVERED BY : EMC
COMMENTS :
FUNDING CODE : WP06 AGENCY ROUTING : CP UNIT CODE :
SAM TYPE CODE : STRM SAMPLE PURPOSE CODE : S REPORTING INDICATOR : B

DATE RECEIVED : 930112 TIME RECEIVED : 1000 RECEIVED BY : MAD
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : RPF NOTE : K = LESS THAN VALUE

P00403	PH,LABORATORY	UNITS	7.6	P70300	(ROE) TDS @ 180C	MG/L	678
P00951	FLUORIDE,TOTAL	MG/L	0.35	P00940	CHLORIDE,TOTAL	MG/L	453
P00945	SULFATE,TOTAL	MG/L	168	P00630	NITRATE&NO2-NTOTAL	MG/L	3.2
P00610	AMMONIA-N,TOTAL	MG/L	0.01K	P32730	PHENOLS,TOTAL	UG/L	10K
P00665	PHOSPHORUS-P,TOTAL	MG/L	0.72	P00310	BOD 5DAY	MG/L	2
P00335	COD,TOTAL	MG/L	21	P00530	SOLIDS,TOT.SUS.	MG/L	22
P00745	SULFIDE,TOTAL	MG/L	0.02K	P01002	ARSENIC,TOTAL	UG/L	7.6
P01032	CHROMIUM,HEX	UG/L	50K	P71900	MERCURY,TOTAL	UG/L	0.05K
P00916	CALCIUM,TOTAL	MG/L	77.	P00927	MAGNESIUM,TOTAL	MG/L	19.
P00929	SODIUM,TOTAL	MG/L	140	P00937	POTASSIUM,TOTAL	MG/L	4.5
P01105	ALUMINUM,TOTAL	UG/L	220	P01007	BARIUM,TOTAL	UG/L	69
P01022	BORON,TOTAL	UG/L	120	P01012	BERYLLIUM,TOTAL	UG/L	1K
P01027	CADMIUM,TOTAL	UG/L	5K	P01034	CHROMIUM,TOTAL	UG/L	19
P01042	COPPER,TOTAL	UG/L	5K	P01037	COBALT,TOTAL	UG/L	5K
P01045	IRON,TOTAL	UG/L	430	P01051	LEAD,TOTAL	UG/L	50K
P01055	MANGANESE,TOTAL	UG/L	130	P01067	NICKEL,TOTAL	UG/L	15K
P01077	SILVER,TOTAL	UG/L	5K	P01082	STRONTIUM,TOTAL	UG/L	430
P01087	VANADIUM,TOTAL	UG/L	5K	P01092	ZINC,TOTAL	UG/L	50K
P00020	TEMPERATURE,AIR	DEG.C	2	P00010	TEMPERATURE,WATER	DEG.C	7