(Name, Location & Address)

NAME: AMOCO OIL COMPANY
ADDRESS: 2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY:
LOCATION:
ATTN: MR. J.E. NACCACHE

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
IN0000108	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR

F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	04	01	TO	94	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE | | ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	241	766	(26)	******	2.5	11.2	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	4161	8164	LBS/D	******	REPORT	REPORT	MG/L		5 TIME	COMP
OXYGEN DEMAND, CHEM. (LOW LEVEL) (COD) 00335 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	4440	6597	(26)	******	41	53	(19)	0	03/07	COMP
	PERMIT REQUIREMENT	30323	[illegible]	LBS/D		REPORT	REPORT	MG/L		THREE	COMP
PH 00400 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		7.3	******	7.9	(12)	0	03/07	GRAB
	PERMIT REQUIREMENT	[illegible]	[illegible]	**** ****	6.5	[illegible]	9	SU		THREE	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	796	1411	(26)	******	8	16	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	[illegible]	[illegible]	LBS/D		REPORT	REPORT	MG/L		5 TIME	COMP
OIL AND GREASE FREON EXTR-IR METH 00556 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	70	141	(26)	******	0.7	1.4	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	[illegible]	2600	LBS/D		REPORT	REPORT	MG/L		5 TIME	GRAB
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	<29	403	(26)	******	<0.19	2	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	1030	2060	LBS/D		REPORT	REPORT	MG/L		5 TIME	COMP
SULFIDE, TOTAL (AS S) 00745 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	2	3	(26)	******	0.02	0.02	(19)	0	01/07	COMP
	PERMIT REQUIREMENT	[illegible]	[illegible]	LBS/D		REPORT	REPORT	MG/L		WEEKLY	COMP

NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER

T. Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

T. F. Scruggs

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
219	473-3179	94	05	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Form 2[illegible] (Rev. 6-[illegible]) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

WHITING
00115/940315-0833

AMOCO OIL COMPANY WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 4/94 APRIL STORM WATER RUNOFF

----OUTFALL 004----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
CLOSED 14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
AVERAGE	0	0.0	0.0
HIGHEST VAL.			
LOWEST VAL.			
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : Gregory L Cook NO. 5404 DATE : 5/24/94 AUTHORIZED AGENT : J Hengge

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 4/94 APRIL STORM WATER RUNOFF

- - - - OUTFALL 003 - - - -

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3	41	2.6	8.1
4			
5			
6			
7			
8			
9			
10	42	2.2	8.2
11			
12			
13			
14			
15			
16			
17	31	2.1	7.7
18			
19			
20			
21			
22			
23			
24	41	1.8	8.1
25			
26			
27			
28			
29			
30			
AVERAGE	39	2.2	8.0
HIGHEST VAL.	42	2.6	8.2
LOWEST VAL.	31	1.8	7.7
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : George Nash NO. 5404 DATE : 5/24/94 AUTHORIZED AGENT : [illegible]

2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 OUTFALL 002 4/94 APRIL COOLING WATER EFFLUENT

PARAMETER	FLOW	pH	IN-TOC	OUT-TOC	DELTA TOC	IN-TEMP	TEMP	HEAT	RESID-CL	IN-OIL	OIL	DELTA OIL
CODE	Q50050	C00400	C99680	C00680			C00010	C99003			C00550	
SAMPLE TYPE												
PERMIT	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
ACTUAL	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
FREQUENCY												
PERMIT	CONT	3/7	5/7	5/7	5/7	5/7	5/7	5/7	1/7	3/7	3/7	3/7
ACTUAL	CONT	3/7	5/7	5/7	5/7	CONT	CONT	CONT	1/7	3/7	3/7	5/7
LIMITS: AVG.								1.70				
MAX.		7-9			5			2.00	.05			5
DATE	MG/D	pH	mg/l	mg/l	mg/l	DEG C	DEG C	GIGA BTU/HR		mg/l	mg/l	mg/l
1	90.3	8.2	2	2	0	6	21	0.85	--	0.3	1.4	1.1
2	92.8	--	--	--	--	6	21	0.87	--	--	--	--
3	88.4	--	--	--	--	7	22	0.83	--	--	--	--
4	91.9	8.3	2	3	1	8	23	0.86	--	<0.3	1.6	1.3
5	97.1	--	3	3	0	7	22	0.91	--	--	--	--
6	108.8	8.3	3	3	0	7	21	0.95	<0.04	<0.3	3.3	3.0
7	108.4	--	3	3	0	6	22	1.08	--	--	--	--
8	109.3	8.3	3	2	-1	6	22	1.09	--	0.3	1.8	1.5
9	111.7	--	--	--	--	7	23	1.12	--	--	--	--
10	113.0	--	--	--	--	6	22	1.13	--	--	--	--
11	114.9	8.3	3	3	0	8	23	1.08	--	<0.3	2.4	2.1
12	115.7	--	3	2	-1	8	23	1.08	--	--	--	--
13	115.6	8.3	2	2	0	7	24	1.23	<0.04	<0.3	1.8	1.5
14	116.4	--	2	2	0	7	23	1.16	--	--	--	--
15	118.1	8.3	2	2	0	7	23	1.18	--	0.8	1.3	0.5
16	120.8	--	--	--	--	7	23	1.21	--	--	--	--
17	121.1	--	--	--	--	8	24	1.21	--	--	--	--
18	122.4	8.3	2	2	0	9	25	1.22	--	<0.3	1.5	1.2
19	122.7	--	3	2	-1	10	25	1.15	--	--	--	--
20	121.7	8.3	2	2	0	11	26	1.14	<0.04	0.7	2.1	1.4
21	121.6	--	2	2	0	10	26	1.22	--	--	--	--
22	120.5	8.2	2	2	0	10	26	1.20	--	<0.3	2.6	2.3
23	119.8	--	--	--	--	11	27	1.20	--	--	--	--
24	118.8	--	--	--	--	11	28	1.26	--	--	--	--
25	118.5	8.3	2	2	0	11	27	1.18	--	<0.3	1.5	1.2
26	117.1	--	2	2	0	12	28	1.17	--	--	--	--
27	116.2	8.3	2	2	0	12	28	1.16	<0.04	<0.3	2.5	2.2
28	115.8	--	2	2	0	11	28	1.23	--	--	--	--
29	114.4	8.2	2	2	0	11	27	1.14	--	<0.3	1.7	1.4
30	112.3	--	--	--	--	11	27	1.12	--	--	--	--
AVERAGE	112.3	8.3	2	2	0	9	24	1.11	<0.04	<0.4	2.0	1.6
HIGHEST VAL.	122.7	8.3	3	3	1	12	28	1.26	<0.04	0.8	3.3	3.0
LOWEST VAL.	88.4	8.2	2	2	-1	6	21	0.83	<0.04	<0.3	1.3	0.5
OVER LIMIT		0			0			0	0			0

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : 5/25/94 AUTHORIZED AGENT : J F Henry

--MEANS NOT TESTED THIS DATE

2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 OUTFALL 001 4/94 APRIL PROCESS WATER EFFLUENT

PARAMETER	NH3-N		SULFIDE		TL.CHRM		HX.CHRM		SELENIUM		FECAL C	2378-CDD	2378-CDF
CODE	Q00610		Q00745		Q00034		Q01032		C01147		**		
SAMPLE TYPE													
PERMIT	24		24		24		24		24		GRAB		
ACTUAL	24		24		24		24		24		GRAB		
FREQUENCY													
PERMIT	5/7		1/7		1/7		1/7		2/YR		5/7	1/QTR	1/QTR
ACTUAL	5/7		1/7		1/7		1/7		2/YR		5/7	1/QTR	1/QTR
LIMITS AVG.		1030		23.1		23.90		2.01				200	
MAX.		2060		51.4		68.53		4.8				400	
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	ug/L	LB/D	COLONIES	pg/L	pg/L
1	0.10	7	--	--	--	--	--	--					
2	0.10	9	--	--	--	--	--	--					
3	--	--	--	--	--	--	--	--					
4	<0.10	<10	0.02	2	--	--	--	--					
5	<0.10	<10	--	--	--	--	--	--					
6	<0.10	<10	--	--	<0.01	<1.0	0.001	0.1					
7	--	--	--	--	--	--	--	--					
8	<0.10	<11	--	--	--	--	--	--					
9	<0.10	<11	--	--	--	--	--	--					
10	--	--	--	--	--	--	--	--					
11	<0.10	<10	0.01	1	--	--	--	--					
12	<0.10	<13	--	--	--	--	--	--					
13	<0.10	<12	--	--	<0.01	<1.2	0.001	0.1					
14	--	--	--	--	--	--	--	--					
15	<0.10	<14	--	--	--	--	--	--					
16	<0.10	<13	--	--	--	--	--	--					
17	--	--	--	--	--	--	--	--					
18	<0.10	<13	0.02	3	--	--	--	--					
19	<0.10	<4	--	--	--	--	--	--					
20	2.00	403	--	--	<0.01	<2.0	0.001	0.2					
21	--	--	--	--	--	--	--	--					
22	<0.10	<14	--	--	--	--	--	--					
23	<0.10	<12	--	--	--	--	--	--					
24	--	--	--	--	--	--	--	--					
25	<0.10	<10	0.02	2	--	--	--	--					
26	<0.10	<12	--	--	--	--	--	--					
27	0.18	22	--	--	<0.01	<1.2	0.001	0.1					
28	--	--	--	--	--	--	--	--					
29	<0.10	<11	--	--	--	--	--	--					
30	<0.10	<12	--	--	--	--	--	--					
AVERAGE	<0.19	<27	0.02	2	<0.01	<1.3	0.001	0.1					
HIGHEST VAL.	2.00	403	0.02	3	<0.01	<2.0	0.001	0.2					
LOWEST VAL.	<0.10	<4	0.01	1	<0.01	<1.0	0.001	0.1					
OVER LIMIT		0		0		0		0					

CERTIFIED OPERATOR : George S. Cook NO. 5404 DATE : 5/24/94 AUTHORIZED AGENT : T. Hengy

-- Means Not Tested this Date. **Fecal Coliform are limited from April 1 to Oct. 1, when Refinery Sanitary Sewers are discharging to AMOCO WWTP

2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 OUTFALL 001 4/94 APRIL PROCESS WATER EFFLUENT

PARAMETER	FLOW	PH	BOD	TSS	COD	OIL	PHENOL
CODE	Q50050	C00400	Q00310	Q00547	Q00340	Q00550	Q32730
SAMPLE TYPE							
PERMIT	CONT	GRAB	24	24	24	3/DAY	24
ACTUAL	CONT	GRAB	24	24	24	3/DAY	24
FREQUENCY							
PERMIT	CONT	3/7	5/7	5/7	3/7	5/7	3/7
ACTUAL	CONT	3/7	5/7	5/7	3/7	5/7	3/7

LIMITS AVG.				4161		3646		30323		1368		20.33
MAX.		6.5-9		8164		5694		58427		2600		73.00
DATE	MG/D	pH	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D
1	9.0	7.3	--	--	--	--	53	3973	0.4	30	--	--
2	10.3	--	--	--	--	--	41	3518	--	--	--	--
3	11.9	--	1.8	178	6	595	--	--	--	--	(0.01	0.0
4	11.5	7.8	2.0	192	7	671	--	--	0.5	48	--	--
5	11.7	--	2.9	283	11	1072	46	4483	1.2	117	(0.01	0.0
6	12.0	7.9	3.4	340	14	1399	--	--	1.1	110	--	--
*7	4.2	--	11.2	392	16	560	--	--	1.4	49	(0.01	0.0
8	13.6	7.9	--	--	--	--	46	5211	1.0	113	--	--
9	13.0	--	--	--	--	--	52	5631	--	--	--	--
10	11.3	--	1.7	160	7	659	--	--	--	--	(0.01	0.0
11	11.7	7.9	1.7	166	7	682	--	--	0.8	78	--	--
12	15.3	--	1.3	166	5	637	46	5863	0.6	76	(0.01	0.0
13	13.9	7.8	1.5	174	5	579	--	--	0.6	69	--	--
14	14.8	--	1.7	210	6	740	--	--	0.7	86	(0.01	0.0
15	16.5	7.8	--	--	--	--	48	6597	0.9	124	--	--
16	16.0	--	--	--	--	--	40	5331	--	--	--	--
17	15.1	--	1.4	176	9	1132	--	--	--	--	(0.01	0.0
18	15.7	7.7	1.8	235	7	915	--	--	0.5	65	--	--
**19	4.3	--	2.3	82	7	251	41	1469	0.7	25	(0.01	0.0
20	24.2	7.4	3.8	766	7	1411	--	--	0.7	141	--	--
21	16.6	--	2.7	373	6	830	--	--	0.4	55	(0.01	0.0
22	16.3	7.8	--	--	--	--	28	3802	0.5	68	--	--
23	14.1	--	--	--	--	--	30	3524	--	--	--	--
24	12.7	--	1.6	169	11	1164	--	--	--	--	(0.01	0.0
25	12.6	7.8	1.6	168	5	525	--	--	0.4	42	--	--
26	15.0	--	1.7	212	5	625	38	4748	0.4	50	(0.01	0.0
27	15.0	7.6	1.8	225	3	375	--	--	0.4	50	--	--
28	14.6	--	1.2	148	9	1095	--	--	(0.3	(37	(0.01	0.0
29	13.8	7.7	--	--	--	--	30	3449	<0.3	(34	--	--
30	14.4	--	--	--	--	--	38	4558	--	--	--	--
AVERAGE	13.4	7.7	2.5	241	8	796	41	4440	0.7	70	(0.01	0.0
HIGHEST VAL.	24.2	7.9	11.2	766	16	1411	53	6597	1.4	141	<0.01	0.0
LOWEST VAL.	4.2	7.3	1.2	82	3	251	28	1469	(0.3	(34	(0.01	0.0
OVER LIMIT		0		0		0		0		0		0

CERTIFIED OPERATOR : George T Cook NO. 5404 DATE : 5/24/94 AUTHORIZED AGENT : T Henry

--MEANS NOT TESTED THIS DATE.

*Flow was impounded for part of the day due to maintenance work on the equalization tank.

**Flow was impounded for part of the day due to maintenance work on the dissolved air flotation unit.

Amoco Oil Company
Whiting Refinery
2815 Indianapolis Boulevard
Post Office Box 710
Whiting, Indiana 46394-0710
219-473-7700

T. T. Scruggs
Refinery Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 24, 1994

Indiana Department of Environmental Management
Office of Water Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46026-6015

NPDES Permit No. 0000108, Serials 001, 002, 003, and 004

Effluent quality data and Discharge Monitoring Report (DMR) forms from Amoco Oil Company's Whiting Refinery for the month of April, 1994 are attached.

Effluent quality was excellent and no permit exceedances were recorded at the Lakefront Wastewater Treatment Plant (WWTP).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

T. T. Scruggs
Refinery Manager

Attachments

Article No. P-037-144-892

RMITTEE NAME/ADDRESS (Include
ility Name/Location if different)
ME AMOCO OIL COMPANY
DRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
CILITY
CATION
TTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: IN0000108
(17-19) DISCHARGE NUMBER: 004 A

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
94	02	01	94	02	28

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
H	SAMPLE MEASUREMENT	******	******		8.8	******	8.9	(12)	0	02/28	GRAB
0400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
IL AND GREASE RECN EXTR-GRAV METH	SAMPLE MEASUREMENT	******	******		******	2.1	2.3	(19)	0	02/28	GRAB
0556 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
ARBON, TOT ORGANIC (TOC)	SAMPLE MEASUREMENT	******	******		******	18	18	(19)	0	02/28	GRAB
0680 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

T. Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 NUMBER 473-3179

DATE: YEAR 94 MO 03 DAY 22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME AMOCO OIL COMPANY

ADDRESS 2815 INDIANAPOLIS BLVD

WHITING IN 46394

FACILITY

LOCATION

ATTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 PERMIT NUMBER

(17-19) 003 A DISCHARGE NUMBER

MAJOR

F - FINAL

Form Approved. OMB No. 2040-0004. Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
94	02	01	94	02	28
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		7.9	******	8.2	(12)	0	01/07	GRAB
00400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
OIL AND GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	******	******		******	2.9	3.5	(19)	0	01/07	GRAB
00556 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
CARBON, TOT ORGANIC (TOC)	SAMPLE MEASUREMENT	******	******		******	34	42	(19)	0	01/07	GRAB
00680 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

T. Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3179

DATE: YEAR 94 | MO 03 | DAY 22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

F - FINAL

(2-16) PERMIT NUMBER: IN0000108

(17-19) DISCHARGE NUMBER: 002 A

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	02	01	TO	94	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

ITTEE NAME/ADDRESS (Include
y Name/Location if different)
F AMOCO OIL COMPANY
ESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
LITY
ATION
TN: MR. J.E. NACCACHE

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-65)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
RBON, TOT ORGANIC	SAMPLE MEASUREMENT	******	******		******	2	3	(19)	0	05/07	GRAB
DC) 680 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME /WEEK	GRAB
RBON, TOT ORGANIC	SAMPLE MEASUREMENT	******	******		******	0	1	(19)	0	05/07	GRAB
DC) 680 2 0 0 FLUENT NPT VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX	MG/L	5	TIME /WEEK	GRAB
RBON, TOT ORGANIC	SAMPLE MEASUREMENT	******	******		******	2	3	(19)	0	05/07	GRAB
OC) 680 7 0 0 TAKE FROM STREAM	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME /WEEK	GRAB
OW, IN CONDUIT OR	SAMPLE MEASUREMENT	99.7	121.9	(03)	******	******	******		0	07/07	CONT
RU TREATMENT PLANT 050 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	CONTIN
LORINE, TOTAL	SAMPLE MEASUREMENT	******	******		******	< 0.04	< 0.04	(19)	0	01/07	GRAB
SIDUAL 060 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	0.05 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ME/TITLE PRINCIPAL EXECUTIVE OFFICER: . Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219, NUMBER 473-3179

DATE: YEAR 94, MO 03, DAY 22

MENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

RMITTEE NAME/ADDRESS (Include
ility Name/Location if different)
ME AMOCO OIL COMPANY
DRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
CILITY
CATION
TTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: IN0000108
(17-19) DISCHARGE NUMBER: 003 A

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
94	02	01	94	02	28
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
H	SAMPLE MEASUREMENT	******	******		7.9	******	8.2	(12)	0	01/07	GRAB
0400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
IL AND GREASE REON EXTR-GRAV METH	SAMPLE MEASUREMENT	******	******		******	2.9	3.5	(19)	0	01/07	GRAB
0556 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
ARBON, TOT ORGANIC TOC)	SAMPLE MEASUREMENT	******	******		******	34	42	(19)	0	01/07	GRAB
0680 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
T. Scruggs, Refinery Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3179

DATE: YEAR 94 | MO 03 | DAY 22

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ERMITTEE NAME/ADDRESS (Include
cility Name/Location if different)
AME AMOCO OIL COMPANY
DDRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
ACILITY
OCATION
TTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 PERMIT NUMBER

(17-19) 004 A DISCHARGE NUMBER

MAJOR

F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	02	01	TO	94	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		8.8	******	8.9	(12)	0	02/28	GRAB
00400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
EFFLUENT GROSS VALUE											
OIL AND GREASE FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	******	******		******	2.1	2.3	(19)	0	02/28	GRAB
00556 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
EFFLUENT GROSS VALUE											
CARBON, TOT ORGANIC (TOC)	SAMPLE MEASUREMENT	******	******		******	18	18	(19)	0	02/28	GRAB
00680 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
T. Scruggs, Refinery Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	219 (AREA CODE)	473-3179 (NUMBER)	94 (YEAR)	03 (MO)	22 (DAY)
TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

RMITTEE NAME/ADDRESS (Include
ility Name/Location if different)
ME AMOCO OIL COMPANY
DRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
CILITY
CATION
TN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 PERMIT NUMBER

(17-19) 001 A DISCHARGE NUMBER

MAJOR

F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
94	02	01	94	02	28
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OD, 5-DAY (20 DEG. C) 0310 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	468	779	(26)	******	5.5	9.5	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME/WEEK	COMP24
XYGEN DEMAND, CHEM. (LOW LEVEL) (COD) 0335 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5680	9180	(26)	******	67	111	(19)	0	03/07	COMP
	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	THREE/WEEK		COMP24
H 0400 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		7.4	******	7.9	(12)	0	03/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	6.5 MINIMUM	******	9 MAXIMUM	SU	THREE/WEEK		GRAB
OLIDS, TOTAL USPENDED 0530 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2056	4898	(26)	******	25	60	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	3646 MO AVG	5694 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME/WEEK	COMP24
IL AND GREASE REON EXTR-GRAV METH 0556 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	176	423	(26)	******	2.2	5.7	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME/WEEK	GRAB
ITROGEN, AMMONIA OTAL (AS N) 0610 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<12	82	(26)	******	<0.16	1.20	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	1030 MO AVG	2060 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME/WEEK	COMP24
ULFIDE, TOTAL (AS S) 0745 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3	4	(26)	******	0.04	0.07	(19)	0	01/07	COMP
	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L	WEEKLY		COMP24

AME/TITLE PRINCIPAL EXECUTIVE OFFICER

. Scruggs, Refinery Manager

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
219	473-3179	94	03	22

MMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 2/94 FEBRUARY STORM WATER RUNOFF

----OUTFALL 004----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3			
4			
5			
6			
7			
8			
9			
Closed 10			
11			
12			
13			
14			
15			
16			
17			
18	18	1.8	8.9
19			
Open 20	17	2.3	8.8
21			
22			
23			
24			
25			
Closed 26			
27			
28			
AVERAGE	18	2.1	8.8
HIGHEST VAL.	18	2.3	8.9
LOWEST VAL.	17	1.8	8.8
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : George Nook NO. 5404 DATE : 3/22/94 AUTHORIZED AGENT : F Henry

AMOCO OIL COMPANY, WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 2/94 FEBRUARY STORM WATER RUNOFF

----OUTFALL 003----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3			
4			
5			
6	42	3.4	7.9
7			
8			
9			
10			
11			
12			
13	42	3.5	8.0
14			
15			
16			
17			
18			
19			
20	19	1.1	8.2
21			
22			
23			
24			
25			
26			
27	34	3.5	8.2
28			
AVERAGE	34	2.9	8.1
HIGHEST VAL.	42	3.5	8.2
LOWEST VAL.	19	1.1	7.9
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : 3/22/94 AUTHORIZED AGENT : [signature]

AMOCO OIL COMPANY, WHITING REFINERY {WLSTAT}
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 OUTFALL 002 2/94 FEBRUARY COOLING WATER EFFLUENT

PARAMETER	FLOW	pH	IN-TOC	OUT-TOC	DELTA TOC	IN-TEMP	TEMP	HEAT	RESID-CL	IN-OIL	OIL	DELTA OIL
CODE	Q50050	C00400	C99680	C00680			C00010	C99003			C00550	
SAMPLE TYPE												
PERMIT	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
ACTUAL	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
FREQUENCY												
PERMIT	CONT	3/7	5/7	5/7	5/7	5/7	5/7	5/7	1/7	3/7	3/7	3/7
ACTUAL	CONT	3/7	5/7	5/7	5/7	CONT	CONT	CONT	1/7	3/7	3/7	5/7
LIMITS: AVG.								1.70				
MAX.		7-9			5			2.00	.05			5
DATE	MG/D	pH	mg/l	mg/l	mg/l	DEG C	DEG C	GIGA BTU/HR		mg/l	mg/l	mg/l
1	116.4	--	2	3	1	5	16	0.80	--	--	--	--
2	117.1	8.3	3	2	-1	4	16	0.88	<0.04	<0.3	3.4	3.1
3	117.2	--	3	2	-1	5	17	0.88	--	--	--	--
4	116.3	8.3	2	2	0	4	17	0.94	--	<0.3	3.8	3.5
5	115.0	--	--	--	--	4	17	0.93	--	--	--	--
6	115.5	--	--	--	--	4	17	0.94	--	--	--	--
7	116.1	8.2	2	2	0	5	16	0.80	--	0.8	4.2	3.4
8	117.1	--	2	2	0	4	15	0.80	--	--	--	--
9	120.5	8.2	2	2	0	3	15	0.90	<0.04	0.5	4.6	4.1
10	121.9	--	1	1	0	3	15	0.91	--	--	--	--
11	100.8	8.3	1	2	1	3	16	0.82	--	0.4	3.4	3.0
12	82.1	--	--	--	--	3	16	0.67	--	--	--	--
13	77.6	--	--	--	--	3	16	0.63	--	--	--	--
14	81.0	8.2	2	3	1	3	17	0.71	--	<0.3	3.7	3.4
15	88.3	--	2	3	1	2	16	0.77	--	--	--	--
16	87.0	8.2	2	3	1	2	16	0.76	<0.04	0.3	3.5	3.2
17	87.5	--	2	2	0	3	16	0.71	--	--	--	--
18	91.2	8.2	2	3	1	3	16	0.74	--	1.8	3.7	1.9
19	92.8	--	--	--	--	3	16	0.75	--	--	--	--
20	92.8	--	--	--	--	4	17	0.75	--	--	--	--
21	91.2	8.1	3	3	0	4	17	0.74	--	0.5	2.3	1.8
22	90.6	--	3	3	0	5	18	0.74	--	--	--	--
23	93.3	8.2	2	2	0	4	17	0.76	<0.04	0.3	4.9	4.6
24	92.4	--	2	3	1	4	17	0.75	--	--	--	--
25	93.4	8.2	3	3	0	3	17	0.82	--	<0.3	2.4	2.1
26	92.3	--	--	--	--	2	16	0.81	--	--	--	--
27	92.5	--	--	--	--	3	16	0.75	--	--	--	--
28	91.4	8.2	2	2	0	2	17	0.86	--	<0.3	4.4	4.1
AVERAGE	99.7	8.2	2	2	0	3	16	0.80	<0.04	<0.5	3.7	3.2
HIGHEST VAL.	121.9	8.3	3	3	1	5	18	0.94	<0.04	1.8	4.9	4.6
LOWEST VAL.	77.6	8.1	1	1	-1	2	15	0.63	<0.04	<0.3	2.3	1.8
OVER LIMIT	0	0			0			0	0			0

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : 3/22/94 AUTHORIZED AGENT : [signature]

--MEANS NOT TESTED THIS DATE

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 2/94 FEBRUARY PROCESS WATER EFFLUENT

PARAMETER	NH3-N		SULFIDE		TL.CHRM		HX.CHRM		SELENIUM		FECAL C	2378-CDD	2378-CDF
CODE	Q00610		Q00745		Q00034		Q01032		C01147		**		
SAMPLE TYPE													
PERMIT	24		24		24		24		24		GRAB		
ACTUAL	24		24		24		24		24		GRAB		
FREQUENCY													
PERMIT	5/7		1/7		1/7		1/7		2/YR		5/7	1/QTR	1/QTR
ACTUAL	5/7		1/7		1/7		1/7		2/YR		5/7	1/QTR	1/QTR
LIMITS AVG.		1030		23.1		23.90		2.01			200		
MAX.		2060		51.4		68.53		4.8			400		
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	ug/L	LB/D	COLONIES	pg/L	pg/L
1	<0.10	<11	--	--	--	--	--	--					
2	<0.10	<11	--	--	<0.01	<1.1	0.001	0.1					
3	--	--	--	--	--	--	--	--					
4	0.10	9	--	--	--	--	--	--					
5	<0.10	<8	--	--	--	--	--	--			--		
6	--	--	--	--	--	--	--	--			--		
7	0.10	6	0.07	4	--	--	--	--					
8	0.11	11	--	--	--	--	--	--					
9	0.10	9	--	--	<0.01	<0.9	0.001	0.1					
10	--	--	--	--	--	--	--	--					
11	<0.10	<8	--	--	--	--	--	--					
12	<0.10	<8	--	--	--	--	--	--					
13	--	--	--	--	--	--	--	--			--		
14	<0.10	<8	0.04	3	--	--	--	--			--		
15	<0.10	<8	--	--	--	--	--	--					
16	<0.10	<8	--	--	<0.01	<0.8	0.001	0.1					
17	--	--	--	--	--	--	--	--					
18	<0.10	<9	--	--	--	--	--	--					
19	<0.10	<8	--	--	--	--	--	--					
20	--	--	--	--	--	--	--	--			--		
21	<0.10	<10	0.03	3	--	--	--	--			--		
22	<0.10	<7	--	--	--	--	--	--					
23	<0.10	<6	--	--	<0.01	<0.6	0.001	0.1					
24	--	--	--	--	--	--	--	--					
25	1.20	82	--	--	--	--	--	--					
26	<0.10	<9	--	--	--	--	--	--					
27	--	--	--	--	--	--	--	--			--		
28	<0.10	<7	0.02	1	--	--	--	--			--		
AVERAGE	<0.16	<12	0.04	3	<0.01	<0.8	0.001	0.1					
HIGHEST VAL.	1.20	82	0.07	4	<0.01	<1.1	0.001	0.1					
LOWEST VAL.	<0.10	<6	0.02	1	<0.01	<0.6	0.001	0.1					
OVER LIMIT		0		0		0		0			0		

CERTIFIED OPERATOR : George Beck NO. 5404 DATE : 3/22/94 AUTHORIZED AGENT : T. Hennessy

--Means Not Tested this Date. **Fecal Coliform are limited from April 1 to Oct. 1, when Refinery Sanitary Sewers are discharging to AMOCO WWTP

AMOCO OIL COMPANY, WHITING REFINERY {WLSTAT}
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 OUTFALL 001 2/94 FEBRUARY PROCESS WATER EFFLUENT

PARAMETER	FLOW	PH	BOD		TSS		COD		OIL		PHENOL	
CODE	Q50050	C00400	Q00310		Q00547		Q00340		Q00550		Q32730	
SAMPLE TYPE												
PERMIT	CONT	GRAB	24		24		24		3/DAY		24	
ACTUAL	CONT	GRAB	24		24		24		3/DAY		24	
FREQUENCY												
PERMIT	CONT	3/7	5/7		5/7		3/7		5/7		3/7	
ACTUAL	CONT	3/7	5/7		5/7		3/7		5/7		3/7	
LIMITS AVG.				4161		3646		30323		1368		20.33
MAX.		6.5-9		8164		5694		58427		2600		73.00
DATE	MG/D	pH	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D
1	12.7	--	3.6	381	10	1058	47	4972	1.6	169	<0.01	0.0
2	13.2	7.6	5.6	616	8	880	--	--	2.1	231	--	--
3	12.7	--	5.3	561	14	1481	--	--	1.5	159	<0.01	0.0
4	10.8	7.7	--	--	--	--	55	4948	2.0	180	--	--
5	9.7	--	--	--	--	--	51	4121	--	--	--	--
6	10.2	--	5.3	450	18	1529	--	--	--	--	<0.01	0.0
7	7.7	7.6	6.5	417	23	1475	--	--	1.1	71	--	--
8	11.7	--	7.4	721	29	2826	74	7212	2.2	214	<0.01	0.0
9	11.4	7.7	8.2	779	24	2279	--	--	2.2	209	--	--
10	11.8	--	6.9	678	20	1966	--	--	1.7	167	<0.01	0.0
11	10.2	7.9	--	--	--	--	55	4673	0.4	34	--	--
12	9.3	--	--	--	--	--	38	2944	--	--	--	--
13	9.1	--	2.3	174	12	910	--	--	--	--	<0.01	0.0
14	9.8	7.7	4.7	384	33	2694	--	--	1.1	90	--	--
15	9.5	--	4.1	324	31	2453	68	5381	1.6	127	<0.01	0.0
16	9.8	7.5	6.2	506	60	4898	--	--	1.9	155	--	--
17	10.5	--	6.1	534	56	4898	--	--	1.5	131	<0.01	0.0
18	10.4	7.7	--	--	--	--	106	9180	2.1	182	--	--
19	10.2	--	--	--	--	--	96	8160	--	--	--	--
20	13.8	--	6.0	690	23	2644	--	--	--	--	0.01	1.0
21	12.0	7.4	4.6	460	23	2299	--	--	1.6	160	--	--
22	8.9	--	9.3	689	42	3114	111	8230	5.7	423	0.01	1.0
23	6.7	7.6	9.5	530	29	1619	--	--	4.3	240	--	--
24	6.1	--	4.9	249	19	965	--	--	4.1	208	0.01	1.0
25	8.2	7.7	--	--	--	--	53	3620	3.4	232	--	--
26	10.9	--	--	--	--	--	52	4721	--	--	--	--
27	8.0	--	1.7	113	9	600	--	--	--	--	<0.01	0.0
28	8.0	7.7	1.7	113	8	533	--	--	2.0	133	--	--
AVERAGE	10.1	7.7	5.5	468	25	2056	67	5680	2.2	176	<0.01	0.3
HIGHEST VAL.	13.8	7.9	9.5	779	60	4898	111	9180	5.7	423	0.01	1.0
LOWEST VAL.	6.1	7.4	1.7	113	8	533	38	2944	0.4	34	<0.01	0.0
OVER LIMIT		0		0		0		0		0		0

CERTIFIED OPERATOR : George Moore NO. 5404 DATE : 3/22/94 AUTHORIZED AGENT : [signature]
--MEANS NOT TESTED THIS DATE.

Amoco Oil Company
Whiting Refinery
2815 Indianapolis Boulevard
Post Office Box 710
Whiting, Indiana 46394-0710
219-473-7700

T. T. Scruggs
Refinery Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

March 22, 1994

Indiana Department of Environmental Management
Office of Water Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46026-6015

NPDES Permit No. 0000108, Serials 001, 002, 003, and 004

Effluent quality data and Discharge Monitoring Report (DMR) forms from Amoco Oil Company's Whiting Refinery for the month of February, 1994 are attached.

Effluent quality was excellent and no permit exceedances were recorded at the Lakefront Wastewater Treatment Plant (WWTP).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

T. T. Scruggs
Refinery Manager

Attachments

ERMITTEE NAME/ADDRESS (Include cility Name/Location if different)
AME AMOCO OIL COMPANY
DDRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
ACILITY
OCATION
TTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 PERMIT NUMBER
(17-19) 004 A DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
94	03	01	94	03	31

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
H	SAMPLE MEASUREMENT	******	******			******		(12)	0	00/00*	
0400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******			(19)	0	00/00*	
IL AND GREASE REON EXTR-GRAV METH	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
0556 1 0 0	SAMPLE MEASUREMENT	******	******		******			(19)	0	00/00*	
FFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
ARBON, TOT ORGANIC TOC)	SAMPLE MEASUREMENT	******	******		******			(19)	0	00/00*	
0680 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ME/TITLE PRINCIPAL EXECUTIVE OFFICER
. Scruggs, Refinery Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 NUMBER 473-3179

DATE: YEAR 94 MO 04 DAY 25

MENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No flow occurred from Outfall 004 during March 1994.

MITTEE NAME/ADDRESS (Include
ty Name/Location if different)
S AMOCO OIL COMPANY
RESS 2615 INDIANAPOLIS BLVD
WHITING IN 46394
ILITY
ATION
TN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 — PERMIT NUMBER
(17-19) 003 A — DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	03	01	TO	94	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
400 1 0 0	SAMPLE MEASUREMENT	******	******		8.1	******	8.3	(12)	0	01/07	GRAB
FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
L AND GREASE EON EXTR-GRAV METH 556 1 0 0	SAMPLE MEASUREMENT	******	******		******	2.8	3.4	(19)	0	01/07	GRAB
FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15 DAILY MX	MG/L		WEEKLY	GRAB
REON, TOT ORGANIC OC) 680 1 0 0	SAMPLE MEASUREMENT	******	******		******	37	45	(19)	0	01/07	GRAB
FLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ME/TITLE PRINCIPAL EXECUTIVE OFFICER
. Scruggs, Refinery Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
219	473-3179	94	04	25
AREA CODE	NUMBER	YEAR	MO	DAY

IMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MITTEE NAME/ADDRESS (Include
ity Name/Location if different)
AME AMOCO OIL COMPANY
DRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
ILITY
CATION
TN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
IN0000108	002 A

MAJOR

F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	03	01	TO	94	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
RBON, TOT ORGANIC (OC) 680 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	2	3	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME /WEEK	GRAB
RBON, TOT ORGANIC (OC) 680 2 0 0 FLUENT NET VALUE	SAMPLE MEASUREMENT	******	******		******	0	1	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX	MG/L	5	TIME /WEEK	GRAB
RBON, TOT ORGANIC (OC) 680 7 0 0 TAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	2	3	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L	5	TIME /WEEK	GRAB
OW, IN CONDUIT OR RU TREATMENT PLANT 050 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	92.8	99.9	(03)	******	******	******		0	07/07	CONT
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	CONTIN
LORINE, TOTAL SIDUAL 060 1 0 0 FLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	<0.04	<0.04	(19)	0	01/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	0.05 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ME/TITLE PRINCIPAL EXECUTIVE OFFICER

. Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
219	473-3179	94	04	25
AREA CODE	NUMBER	YEAR	MO	DAY

MMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME AMOCO OIL COMPANY

ADDRESS 2815 INDIANAPOLIS BLVD

WHITING IN 46394

FACILITY

LOCATION

ATTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: IN0000108

(17-19) DISCHARGE NUMBER: 002 A

MAJOR

F - FINAL

Form Approved. OMB No. 2040-0004. Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
94	03	01	94	03	31

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE, WATER DEG. CENTIGRADE 00010 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	20	22	(04) DEG.C	0	07/07	CONT
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX		5	TIME /WEEK	CONTIN
TEMPERATURE, WATER DEG. CENTIGRADE 00010 7 0 0 INTAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	4	7	(04) DEG.C	0	07/07	CONT
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX		5	TIME /WEEK	CONTIN
WASTE HEAT REJECTION RATE 00179 2 0 0 EFFLUENT NET VALUE	SAMPLE MEASUREMENT	880	1040	(05)	******	******	******		0	07/07	CONT
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV	MBTU/ HR	******	******	******	**** ****	5	TIME /WEEK	CONTIN
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		8.1	******	8.3	(12) SU	0	03/07	CONT
	PERMIT REQUIREMENT	******	******	**** ****	7 MINIMUM	******	9 MAXIMUM			THREE/ WEEK	GRAB
OIL AND GREASE FREON EXTR-GRAV METH 00556 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	1.4	3.5	(19) MG/L	0	03/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX			THREE/ WEEK	GRAB
OIL AND GREASE FREON EXTR-GRAV METH 00556 2 0 0 EFFLUENT NET VALUE	SAMPLE MEASUREMENT	******	******		******	1.1	3.2	(19) MG/L	0	03/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX			THREE/ WEEK	GRAB
OIL AND GREASE FREON EXTR-GRAV METH 00556 7 0 0 INTAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	<0.3	0.5	(19) MG/L	0	03/07	GRAB
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX			THREE/ WEEK	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

T. Scruggs, Refinery Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219, NUMBER 473-3179

DATE: YEAR 94, MO 04, DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 9-88) Previous editions

NPDES Permit No. 0000108 - March 1994 DMR

Attachment 1

*Four additional selenium analyses were run on Outfall 001 from January through March 1994 for data to be submitted in our NPDES permit renewal application this year. The selenium concentration and loading results were as follows: 1/14/94 = 38 UG/L, 2.3 lbs/day; 2/11/94 = 30 UG/L, 2.6 lbs/day; 3/1/94 = 28 UG/L, 1.6 lbs/day; 3/2/94 = 30 UG/L, 1.7 lbs/day and 3/10/94 = 33 UG/L, 2.0 lbs/day.

**All of the requirements of the CDF and CDD testing in Section I.A.1.(6) and Part 1.D. of the permit have been met.

***A fecal coliform analysis was run on Outfall 001 for data to be submitted in our NPDES permit renewal application this year.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME AMOCO OIL COMPANY
ADDRESS 2815 INDIANAPOLIS BLVD
WHITING IN 46394
FACILITY
LOCATION
ATTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000108 — PERMIT NUMBER
(17-19) C01 A — DISCHARGE NUMBER

MAJOR
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
94	03	01	94	03	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.1	0.1	(26)	******	0.001	0.001	(19)	0	01/07	COMP
	PERMIT REQUIREMENT	2.01 MO AVG	4.48 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEKLY	COMP24
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<0.8	<0.9	(26)	******	<0.01	<0.01	(19)	0	01/07	COM
	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEKLY	COMP24
SELENIUM, TOTAL (AS SE) 01147 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	2.0	(26)	******	******	33	(28)	0	05/180*	COMP
	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	REPORT DAILY MX	UG/L		SEMI-ANNUAL	COMP24
PHENOLICS, TOTAL RECOVERABLE 32730 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.1	1.0	(26)	******	<0.01	0.01	(19)	0	03/07	COMP
	PERMIT REQUIREMENT	20.33 MO AVG	73.01 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		THREE/WEEK	COMP24
2,3,7,6-TETRACHLORO-DIBENZO-P-DIOXIN 34675 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		******	**	**	(25)	0	00/00**	**
	PERMIT REQUIREMENT	******	******	******	******	REPORT MO AVG	REPORT DAILY MX	PPQ		QTRLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	9.1	11.3	(03)	******	******	******		0	07/07	COM
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	******		DAILY	CONTIN
***Fecal Coliform	SAMPLE MEASUREMENT						7	Colonies	0	01/31	GRAB
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
T. Scruggs, Refinery Manager
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 — NUMBER 473-3179

DATE: YEAR 94 — MO 04 — DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*
**
*** See Attachment 1 for explanation of these items

RMITTEE NAME/ADDRESS (Include
cility Name/Location if different)

AME AMOCO OIL COMPANY

DDRESS 2815 INDIANAPOLIS BLVD

WHITING IN 46394

ACILITY

OCATION

TTN: MR. J.E. NACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
IN0000168	001 A

MAJOR

F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	03	01	TO	94	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OD, 5-DAY (20 DEG. C) 0310 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	284	1130	(26)	******	3.5	12.8	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIME /WEEK	COMP24
XYGEN DEMAND, CHEM. (LOW LEVEL) (COD) 0335 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3489	4906	(26)	******	48	62	(19)	0	03/07	COMP
	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		THREE/ WEEK	COMP24
H 0400 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		6.7	******	7.7	(12)	0	03/07	GRAB
	PERMIT REQUIREMENT	******	****** **** ****		6.5 MINIMUM	******	9 MAXIMUM	SU		THREE/ WEEK	GRAB
OLIDS, TOTAL USPENDED 0530 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	752	2561	(26)	******	10	29	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	3646 MO AVG	5694 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIME /WEEK	COMP24
IL AND GREASE REON EXTR-GRAV METH 0556 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	86	194	(26)	******	1.1	2.2	(19)	0	05/07	GRAB
	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIME /WEEK	GRAB
ITROGEN, AMMONIA OTAL (AS N) 0610 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	<74	662	(26)	******	<0.89	7.50	(19)	0	05/07	COMP
	PERMIT REQUIREMENT	1030 MO AVG	2060 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIME /WEEK	COMP24
ULFIDE, TOTAL (AS S) 0745 1 0 0 FFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2	3	(26)	******	0.02	0.03	(19)	0	01/07	COMP
	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEKLY	COMP24

AME/TITLE PRINCIPAL EXECUTIVE OFFICER

. Scruggs, Refinery Manager

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
219	473-3179	94	04	25
AREA CODE	NUMBER	YEAR	MO	DAY

OMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 3/94 MARCH STORM WATER RUNOFF

----OUTFALL 004----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
CLOSED 15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
AVERAGE	0	0.0	0.0
HIGHEST VAL.			
LOWEST VAL.			
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : George R. Cook NO. 5404 DATE : 04/25/94 AUTHORIZED AGENT : [signature]

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 3/94 MARCH STORM WATER RUNOFF

----OUTFALL 003----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK MAXIMUM

PARAMETER	TOC	OIL	pH
CODE:	C00680	C00550	C00400
LIMITS: MAX.	110	15	6-9
DATA	MG/L	MG/L	
1			
2			
3			
4			
5			
6	24	2.1	8.2
7			
8			
9			
10			
11			
12			
13	37	2.7	8.1
14			
15			
16			
17			
18			
19			
20	45	3.1	8.1
21			
22			
23			
24			
25			
26			
27	41	3.4	8.3
28			
29			
30			
31			
AVERAGE	37	2.8	8.2
HIGHEST VAL.	45	3.4	8.3
LOWEST VAL.	24	2.1	8.1
OVER LIMIT	0	0	0

CERTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 04/25/94 AUTHORIZED AGENT : [illegible]

AMOCO OIL COMPANY,WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 002 3/94 MARCH COOLING WATER EFFLUENT

PARAMETER	FLOW	pH	IN-TOC	OUT-TOC	DELTA TOC	IN-TEMP	TEMP	HEAT	RESID-CL	IN-OIL	OIL	DELTA OIL
CODE	Q50050	C00400	C99680	C00680			C00010	C99003			C00550	
SAMPLE TYPE												
PERMIT	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
ACTUAL	CONT	GRAB	GRAB	GRAB	GRAB	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB
FREQUENCY												
PERMIT	CONT	3/7	5/7	5/7	5/7	5/7	5/7	5/7	1/7	3/7	3/7	3/7
ACTUAL	CONT	3/7	5/7	5/7	5/7	CONT	CONT	CONT	1/7	3/7	3/7	5/7
LIMITS: AVG.								1.70				
MAX.		7-9			5			2.00	.05			5
DATE	MG/D	pH	mg/l	mg/l	mg/l	DEG C	DEG C	GIGA BTU/HR		mg/l	mg/l	mg/l
1	93.8	--	2	2	0	2	17	0.88	--	--	--	--
2	96.6	8.3	2	2	0	2	16	0.84	<0.04	<0.3	0.6	0.3
3	96.1	--	2	2	0	3	16	0.78	--	--	--	--
4	95.5	8.3	2	2	0	3	17	0.84	--	0.3	0.3	0.0
5	93.2	--	--	--	--	3	19	0.93	--	--	--	--
6	94.7	--	--	--	--	4	20	0.95	--	--	--	--
7	98.1	8.3	2	2	0	3	20	1.04	--	<0.3	2.2	1.9
8	94.5	--	2	2	0	3	17	0.83	--	--	--	--
9	96.1	8.3	2	2	0	3	19	0.96	<0.04	<0.3	1.8	1.5
10	95.2	--	2	2	0	3	19	0.95	--	--	--	--
11	99.8	8.2	2	2	0	3	19	1.00	--	<0.3	1.0	0.7
12	96.7	--	--	--	--	5	21	0.97	--	--	--	--
13	95.1	--	--	--	--	4	20	0.95	--	--	--	--
14	93.8	8.1	2	2	0	4	20	0.94	--	<0.3	0.6	0.3
15	96.2	--	3	2	-1	4	19	0.90	--	--	--	--
16	98.5	8.2	3	2	-1	5	20	0.92	<0.04	0.5	1.6	1.1
17	96.4	--	2	2	0	4	19	0.90	--	--	--	--
18	96.6	8.1	3	2	-1	5	20	0.91	--	<0.3	1.3	1.0
19	93.7	--	--	--	--	4	20	0.94	--	--	--	--
20	93.8	--	--	--	--	5	20	0.88	--	--	--	--
21	99.0	8.1	3	3	0	6	21	0.93	--	0.4	1.7	1.3
22	99.9	--	2	3	1	5	20	0.94	--	--	--	--
23	98.4	8.1	2	2	0	5	20	0.92	<0.04	0.4	1.4	1.0
24	94.8	--	2	2	0	6	21	0.89	--	--	--	--
25	87.4	8.3	2	2	0	6	21	0.82	--	0.3	3.5	3.2
26	86.4	--	--	--	--	6	22	0.86	--	--	--	--
27	83.9	--	--	--	--	6	21	0.79	--	--	--	--
28	71.0	8.2	2	2	0	6	22	0.71	--	<0.3	1.5	1.2
29	77.6	--	2	2	0	6	21	0.73	--	--	--	--
30	80.6	8.2	2	2	0	7	21	0.70	<0.04	<0.3	1.0	0.7
31	83.9	--	2	2	0	6	21	0.79	--	--	--	--
AVERAGE	92.8	8.2	2	2	0	4	20	0.88	<0.04	<0.3	1.4	1.1
HIGHEST VAL.	99.9	8.3	3	3	1	7	22	1.04	<0.04	0.5	3.5	3.2
LOWEST VAL.	71.0	8.1	2	2	-1	2	16	0.70	<0.04	<0.3	0.3	0.0
OVER LIMIT	0	0			0			0	0			0

CERTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 04/25/94 AUTHORIZED AGENT : [signature]

--MEANS NOT TESTED THIS DATE