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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 8/97 AUGUST PROCESS WATER EFFLUENT

RAMETER	NH3-N	SULFIDE	TL.CHRM	HX.CHRM	SELENIUM	FECAL C	2378-CDD	2378-CDF
IE	Q00610	Q00745	Q00034	Q01032	C01147	**		
IPLE TYPE								
PERMIT	24	24	24	24	24	GRAB		
ACTUAL	24	24	24	24	24	GRAB		
EQUENCY								
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
MITS AVG.	1030	23.1	23.90	2.01		200		
MAX.	2060	51.4	68.53	4.8		400		

TE	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	0.18	30	--	--	--	--	--	--					
2	1.90	334	--	--	--	--	--	--			--		
3	--	--	--	--	--	--	--	--			--		
4	2.05	369	0.02	3.6	--	--	--	--					
5	1.27	237	--	--	--	--	--	--					
6	0.83	147	--	--	<0.01	<1.8	0.001	0.2					
7	--	--	--	--	--	--	--	--					
8	1.22	226	--	--	--	--	--	--					
9	0.28	52	--	--	--	--	--	--			--		
10	--	--	--	--	--	--	--	--			--		
11	1.34	265	0.02	4.0	--	--	--	--					
12	0.53	105	--	--	--	--	--	--					
13	1.60	298	--	--	<0.01	<1.9	0.001	0.2					
14	--	--	--	--	--	--	--	--					
15	(0.09	(16	--	--	--	--	--	--					
16	0.22	43	--	--	--	--	--	--			--		
17	--	--	--	--	--	--	--	--			--		
18	0.18	38	0.02	4.2	--	--	--	--					
19	1.23	223	--	--	--	--	--	--					
20	1.40	288	--	--	<0.01	<2.1	0.001	0.2					
21	--	--	--	--	--	--	--	--					
22	0.27	51	--	--	--	--	--	--					
23	1.80	371	--	--	--	--	--	--			--		
24	--	--	--	--	--	--	--	--			--		
25	0.36	67	0.02	3.7	--	--	--	--					
26	0.23	42	--	--	--	--	--	--					
27	0.15	28	--	--	<0.01	<1.9	0.001	0.2					
28	--	--	--	--	--	--	--	--					
29	0.32	55	--	--	--	--	--	--					
30	0.25	43	--	--	--	--	--	--			--		
31	--	--	--	--	--	--	--	--			--		
ERAGE	0.80	151	0.02	3.9	<0.01	<1.9	0.001	0.2	0	0	0	0	0
GHEST VAL.	2.05	371	0.02	4.2	<0.01	<2.1	0.001	0.2					
WEST VAL.	(0.09	(16	0.02	3.6	<0.01	<1.8	0.001	0.2					
ER LIMIT		0		0		0		0			0		

RTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

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

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

PERMIT NO. IN0000108 OUTFALL 002 8/97 AUGUST COOLING WATER EFFLUENT

RAMETER	FLOW	pH	IN-TOC	OUT-TOC	DELTA TOC	IN-TEMP	TEMP	HEAT	RESID-CL	IN-OIL	OIL	DELTA OIL
DE	Q50050	C00400	C99680	C00680			C00010	C99003			C00550	
MPLE 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
EQUENCY												
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
MITS: 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	125.4	8.3	2	2	0	22	36	1.10	--	<0.3	<0.3	<0.3
2	126.5	--	--	--	--	23	37	1.11	--	--	--	--
3	126.5	--	--	--	--	23	37	1.11	--	--	--	--
4	127.6	8.4	2	3	1	23	37	1.12	--	<0.3	<0.3	<0.3
5	128.1	--	2	2	0	23	37	1.12	--	--	--	--
6	127.2	8.2	2	2	0	22	36	1.11	<0.04	<0.3	<0.3	<0.3
7	127.8	--	2	2	0	23	36	1.04	--	--	--	--
8	128.5	8.2	2	2	0	22	36	1.12	--	<0.3	<0.3	<0.3
9	128.6	--	--	--	--	22	36	1.12	--	--	--	--
10	128.7	--	--	--	--	22	36	1.13	--	--	--	--
11	128.6	8.3	2	2	0	22	36	1.12	--	<0.3	0.3	0.3
12	128.7	--	2	2	0	22	37	1.21	--	--	--	--
13	123.8	8.3	2	2	0	22	36	1.08	<0.04	<0.3	0.3	0.3
14	120.4	--	2	2	0	22	35	0.98	--	--	--	--
15	120.4	8.3	2	2	0	21	35	1.05	--	0.4	0.9	0.5
16	121.4	--	--	--	--	22	36	1.06	--	--	--	--
17	123.7	--	--	--	--	22	37	1.16	--	--	--	--
18	125.3	8.3	2	3	1	22	36	1.10	--	<0.3	<0.3	<0.3
19	125.5	--	3	2	-1	22	36	1.10	--	--	--	--
20	126.3	8.3	2	2	0	22	36	1.10	<0.04	0.5	0.6	0.1
21	125.6	--	2	2	0	21	35	1.10	--	--	--	--
22	127.2	8.2	2	2	0	21	35	1.11	--	0.3	0.8	0.5
23	127.9	--	--	--	--	21	35	1.12	--	--	--	--
24	127.9	--	--	--	--	21	35	1.12	--	--	--	--
25	128.0	8.2	2	2	0	22	34	0.96	--	<0.3	<0.3	<0.3
26	128.4	--	2	2	0	22	35	1.04	--	--	--	--
27	128.3	8.3	2	2	0	21	35	1.12	<0.04	0.5	0.5	0.0
28	128.5	--	2	2	0	22	35	1.04	--	--	--	--
29	128.5	8.2	2	2	0	23	37	1.12	--	0.3	<0.3	0.0
30	128.6	--	--	--	--	22	36	1.12	--	--	--	--
31	128.6	--	--	--	--	22	36	1.12	--	--	--	--
ERAGE	126.7	8.3	2	2	0	22	36	1.10	<0.04	<0.3	<0.4	<0.3
GHEST VAL.	128.7	8.4	3	3	1	23	37	1.21	0.04	0.5	0.9	0.3
WEST VAL.	120.4	8.2	2	2	-1	21	34	0.96	<0.04	<0.3	<0.3	0.0
ER LIMIT	0	0			0			0	0	0		0

RTIFIED OPERATOR : George Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster
MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 8/97 AUGUST 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	20.2	7.4	--	--	--	--	40	6739	0.9	152	--	--
	2	21.1	--	--	--	--	--	46	8090	--	--	--	--
	3	21.9	--	4.5	822	4	731	--	--	--	--	<0.01	~~0.00~~ <1.83
	4	21.6	7.5	4.4	793	6	1081	--	--	1.4	252	--	--
	5	22.4	--	4.1	766	9	1681	43	8033	1.7	318	<0.01	~~0.00~~ <1.87
	6	21.3	7.6	3.8	675	6	1066	--	--	1.2	213	--	--
	7	21.2	--	3.5	619	5	884	--	--	1.0	177	<0.01	~~0.00~~ <1.77
	8	22.2	7.4	--	--	--	--	44	8150	1.0	185	--	--
	9	22.3	--	--	--	--	--	51	9490	--	--	--	--
	10	21.1	--	3.0	528	12	2112	--	--	--	--	<0.01	~~0.00~~ <1.76
	11	23.7	7.5	3.6	712	7	1384	--	--	1.8	356	--	--
	12	23.7	--	2.9	573	3	593	50	9880	1.8	356	<0.01	~~0.00~~ <1.98
	13	22.3	7.4	2.6	484	4	744	--	--	1.8	335	--	--
	14	21.6	--	3.0	540	6	1081	--	--	2.3	414	<0.01	~~0.00~~ <1.80
	15	21.5	7.4	--	--	--	--	47	8430	2.5	448	--	--
	16	23.4	--	--	--	--	--	53	10340	--	--	--	--
	17	28.0	--	1.8	420	3	701	--	--	--	--	<0.01	~~0.00~~ <2.34
	18	25.3	7.4	1.7	359	3	633	--	--	0.8	169	--	--
	19	21.7	--	1.3	235	0	0	34	6153	1.5	271	<0.01	~~0.00~~ <1.81
	20	24.7	7.5	2.2	453	2	412	--	--	1.8	371	--	--
	21	23.4	--	5.6	1093	8	1561	--	--	3.2	624	<0.01	~~0.00~~ <1.95
	22	22.6	7.5	--	--	--	--	33	6220	1.7	320	--	--
	23	24.7	--	--	--	--	--	45	9270	--	--	--	--
	24	22.9	--	1.7	325	2	382	--	--	--	--	<0.01	~~0.00~~ <1.91
	25	22.3	7.6	1.1	205	2	372	--	--	1.6	298	--	--
	26	22.0	--	0.9	165	2	367	27	4954	1.3	239	<0.01	~~0.00~~ <1.85
	27	22.4	7.6	1.0	187	2	374	--	--	0.8	149	--	--
	28	22.7	--	1.1	208	3	568	--	--	0.8	151	<0.01	~~0.00~~ <1.89
	29	20.5	7.3	--	--	--	--	36	6155	0.5	85	--	--
	30	20.7	--	--	--	--	--	38	6560	--	--	--	--
	31	20.6	--	2.4	412	3	515	--	--	--	--	<0.01	~~0.00~~ <1.72
AVERAGE		22.5	7.5	2.7	504	4	821	42	7747	1.5	280	<0.01	~~0.00~~ <1.88
HIGHEST VAL.		28.0	7.6	5.6	1093	12	2112	53	10340	3.2	624	0.01	~~0.00~~ <2.34
LOWEST VAL.		20.2	7.3	0.9	165	0	0	27	4954	0.5	85	<0.01	~~0.00~~ <1.72
OVER LIMIT			0		0		0		0		0		0

CERTIFIED OPERATOR : NO. 5404 DATE : AUTHORIZED AGENT :

--MEANS NOT TESTED THIS DATE.

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 8/97 AUGUST 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	0.18	30	--	--	--	--	--	--					
2	1.90	334	--	--	--	--	--	--			--		
3	--	--	--	-- 3.6	--	--	--	--			--		
4 21.6	2.05	369	0.02	~~4.0~~	--	--	--	--					
5	1.27	237	--	--	-- <0.01	-- <1.8	--	--					
6 21.3	0.83	147	--	--	~~0.00~~	~~0.0~~	0.001	~~0.2~~ ok					
7	--	--	--	--	--	--	--	--					
8	1.22	226	--	-- ~~44.0~~	--	--	--	--	~~or 3.95~~				
9	0.28	52	--	--	--	--	--	--			--		
10	--	--	--	--	--	--	--	--			--		
11 23.7	1.34	265	0.02	~~4.0~~ 4.0	--	-- <1.9	--	--					
12	0.53	105	--	--	-- <0.01	--	--	--					
13 22.3	1.60	298	--	--	~~0.00~~	~~0.0~~	0.001	~~0.2~~ ok					
14	--	--	--	--	--	--	--	--					
15	<0.09	<16	--	--	--	--	--	--					
16	0.22	43	--	--	--	--	--	--			--		
17	--	--	--	-- 4.2	--	--	--	--			--		
18 25.3	0.18	38	0.02	~~4.0~~	--	-- <2.1	--	--					
19	1.23	223	--	--	--	--	--	--					
20 24.7	1.40	288	--	--	~~0.00~~ <0.01	~~0.0~~	0.001	~~0.2~~ ok					
21	--	--	--	--	--	--	--	--					
22	0.27	51	--	--	--	--	--	--					
23	1.80	371	--	--	--	--	--	--			--		
24	--	--	--	--	--	--	--	--			--		
25 22.3	0.36	67	0.02	~~4.0~~ 3.7	--	--	--	--					
26	0.23	42	--	--	-- <0.01	-- <1.9	--	--					
27 22.4	0.15	28	--	--	~~0.00~~	~~0.0~~	0.001	~~0.2~~ ok					
28	--	--	--	--	--	--	--	--					
29	0.32	55	--	--	--	--	--	--					
30	0.25	43	--	--	--	--	--	--			--		
31	--	--	--	--	--	--	--	--			--		
AVERAGE	0.80	151	0.02	~~4.0~~ 3.9	~~0.00~~ <0.01	~~0.0~~ <1.9	0.001	~~0.2~~ ok	0	0	0	0	0
HIGHEST VAL.	2.05	371	0.02	~~4.0~~ 4.2	~~0.00~~ <0.01	~~0.0~~ <2.1	0.001	~~0.2~~ ok					
LOWEST VAL.	<0.09	<16	0.02	~~4.0~~ 3.6	~~0.00~~ <0.01	~~0.0~~ <1.8	0.001	~~0.2~~ ok					
OVER LIMIT		0		0		0		0 ok			0		

Only - are all these BOC's "5" please let me know.
March 4/15 x345

CERTIFIED OPERATOR : NO. 5404 DATE : AUTHORIZED AGENT :

--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
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 002 8/97 AUGUST 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	125.4	8.3	2	2	0	22	36	1.10	--	<0.3	<0.3	~~0.1~~ <0.3
2	126.5	--	--	--	--	23	37	1.11	--	--	--	--
3	126.5	--	--	--	--	23	37	1.11	--	--	--	--
4	127.6	8.4	2	3	1	23	37	1.12	--	<0.3	<0.3	~~0.1~~ <0.3
5	128.1	--	2	2	0	23	37	1.12	--	--	--	--
6	127.2	8.2	2	2	0	22	36	1.11	<0.04	<0.3	<0.3	~~0.3~~ <0.3
7	127.8	--	2	2	0	23	36	1.04	--	--	--	--
8	128.5	8.2	2	2	0	22	36	1.12	--	<0.3	<0.3	~~0.2~~ <0.3
9	128.6	--	--	--	--	22	36	1.12	--	--	--	--
10	128.7	--	--	--	--	22	36	1.13	--	--	--	--
11	128.6	8.3	2	2	0	22	36	1.12	--	<0.3	0.3	~~0.0~~ 0.3
12	128.7	--	2	2	0	22	37	1.21	--	--	--	--
13	123.8	8.3	2	2	0	22	36	1.08	<0.04	<0.3	0.3	~~0.0~~ 0.3
14	120.4	--	2	2	0	22	35	0.98	--	--	--	--
15	120.4	8.3	2	2	0	21	35	1.05	--	0.4	0.9	0.5
16	121.4	--	--	--	--	22	36	1.06	--	--	--	--
17	123.7	--	--	--	--	22	37	1.16	--	--	--	--
18	125.3	8.3	2	3	1	22	36	1.10	--	<0.3	<0.3	~~0.3~~ <0.3
19	125.5	--	3	2	-1	22	36	1.10	--	--	--	--
20	126.3	8.3	2	2	0	22	36	1.10	<0.04	0.5	0.6	0.1
21	125.6	--	2	2	0	21	35	1.10	--	--	--	--
22	127.2	8.2	2	2	0	21	35	1.11	--	0.3	0.8	0.5
23	127.9	--	--	--	--	21	35	1.12	--	--	--	--
24	127.9	--	--	--	--	21	35	1.12	--	--	--	--
25	128.0	8.2	2	2	0	22	34	0.96	--	<0.3	<0.3	~~0.1~~ <0.3
26	128.4	--	2	2	0	22	35	1.04	--	--	--	--
27	128.3	8.3	2	2	0	21	35	1.12	<0.04	0.5	0.5	0.0
28	128.5	--	2	2	0	22	35	1.04	--	--	--	--
29	128.5	8.2	2	2	0	23	37	1.12	--	0.3	<0.3	~~0.1~~ 0
30	128.6	--	--	--	--	22	36	1.12	--	--	--	--
31	128.6	--	--	--	--	22	36	1.12	--	--	--	--
AVERAGE	126.7	8.3	2	2	0	22	36	1.10	<0.04	<0.3	<0.4	~~0.0~~ <0.3
HIGHEST VAL.	128.7	8.4	3	3	1	23	37	1.21	0.04	0.5	0.9	~~0.5~~ 0.3
LOWEST VAL.	120.4	8.2	2	2	-1	21	34	0.96	<0.04	<0.3	<0.3	~~0.3~~ 0
OVER LIMIT	0	0			0			0	0	0		0

CERTIFIED OPERATOR : NO. 5404 DATE : AUTHORIZED AGENT :

--MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 8/97 AUGUST 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				closed
2				
3				
4				
5				
6				
7				
8				
9				
10				closed
11	27	1.1	7.7	OPEN
12				
13				
14				
15				
16				
17	18	1.2	8.2	
18				
19				
20				
21				
22				
23				
24				closed
25				
26				
27				
28				
29				
30				
31				
AVERAGE	23	1.2	7.9	
HIGHEST VAL.	27	1.2	8.2	
LOWEST VAL.	18	1.1	7.7	
OVER LIMIT	0	0	0	

CERTIFIED OPERATOR : NO. 5404 DATE : AUTHORIZED AGENT :

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

{WLSTAT}

PERMIT NO. IN0000108 8/97 AUGUST STORM WATER RUNOFF

- - - - O U T F A L L 0 0 4 - - - -

*** 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				Closed
2				
3				
4				
5				
6				
7				
8				
9				
10				
11	53	6.1	8.4	OPEN
12				
13				
14				Closed
15				
16				
17	28	1.6	7.8	OPEN
18				
19				
20	23	2.2	8.5	
21				Closed
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
AVERAGE	35	3.3	8.2	
HIGHEST VAL.	53	6.1	8.5	
LOWEST VAL.	23	1.6	7.8	
OVER LIMIT	0	0	0	

CERTIFIED OPERATOR : NO. 5404 DATE : AUTHORIZED AGENT :

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

PERMIT NO. IN0000108 8/97 AUGUST STORM WATER RUNOFF

----OUTFALL 003----

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

RAMETER	TOC	OIL	pH	
DE:	C00680	C00550	C00400	
MITS: MAX.	110	15	6-9	
DATA	MG/L	MG/L		
1				Closed
2				
3				
4				
5				
6				
7				
8				
9				
10				Closed
11	27	1.1	7.7	Open
12				
13				
14				
15				
16				
17	18	1.2	8.2	
18				
19				
20				
21				
22				
23				
24				Closed
25				
26				
27				
28				
29				
30				
31				
ERAGE	23	1.2	7.9	
GHEST VAL.	27	1.2	8.2	
WEST VAL.	18	1.1	7.7	
ER LIMIT	0	0	0	

RTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

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

PERMIT NO. IN0000108 8/97 AUGUST STORM WATER RUNOFF

----OUTFALL 004----

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

ARAMETER	TOC	OIL	pH	
ODE:	C00680	C00550	C00400	
IMITS: MAX.	110	15	6-9	
DATA	MG/L	MG/L		
1				Closed
2				
3				
4				
5				
6				
7				
8				
9				
10				
11	53	6.1	8.4	Open
12				
13				
14				Closed
15				
16				
17	28	1.6	7.8	Open
18				
19				
20	23	2.2	8.5	
21				Closed
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
VERAGE	35	3.3	8.2	
IGHEST VAL.	53	6.1	8.5	
OWEST VAL.	23	1.6	7.8	
VER LIMIT	0	0	0	

ERTIFIED OPERATOR : George Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 8/97 AUGUST 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		20.2	7.4	--	--	--	--	40	6739	0.9	152	--	--
2		21.1	--	--	--	--	--	46	8090	--	--	--	--
3		21.9	--	4.5	822	4	731	--	--	--	--	<0.01	<1.83
4		21.6	7.5	4.4	793	6	1081	--	--	1.4	252	--	--
5		22.4	--	4.1	766	9	1681	43	8033	1.7	318	<0.01	<1.87
6		21.3	7.6	3.8	675	6	1066	--	--	1.2	213	--	--
7		21.2	--	3.5	619	5	884	--	--	1.0	177	<0.01	<1.77
8		22.2	7.4	--	--	--	--	44	8150	1.0	185	--	--
9		22.3	--	--	--	--	--	51	9490	--	--	--	--
10		21.1	--	3.0	528	12	2112	--	--	--	--	<0.01	<1.76
11		23.7	7.5	3.6	712	7	1384	--	--	1.8	356	--	--
12		23.7	--	2.9	573	3	593	50	9880	1.8	356	<0.01	<1.98
13		22.3	7.4	2.6	484	4	744	--	--	1.8	335	--	--
14		21.6	--	3.0	540	6	1081	--	--	2.3	414	<0.01	<1.80
15		21.5	7.4	--	--	--	--	47	8430	2.5	448	--	--
16		23.4	--	--	--	--	--	53	10340	--	--	--	--
17		28.0	--	1.8	420	3	701	--	--	--	--	<0.01	<2.34
18		25.3	7.4	1.7	359	3	633	--	--	0.8	169	--	--
19		21.7	--	1.3	235	0	0	34	6153	1.5	271	<0.01	<1.81
20		24.7	7.5	2.2	453	2	412	--	--	1.8	371	--	--
21		23.4	--	5.6	1093	8	1561	--	--	3.2	624	<0.01	<1.95
22		22.6	7.5	--	--	--	--	33	6220	1.7	320	--	--
23		24.7	--	--	--	--	--	45	9270	--	--	--	--
24		22.9	--	1.7	325	2	382	--	--	--	--	<0.01	<1.91
25		22.3	7.6	1.1	205	2	372	--	--	1.6	298	--	--
26		22.0	--	0.9	165	2	367	27	4954	1.3	239	<0.01	<1.85
27		22.4	7.6	1.0	187	2	374	--	--	0.8	149	--	--
28		22.7	--	1.1	208	3	568	--	--	0.8	151	<0.01	<1.89
29		20.5	7.3	--	--	--	--	36	6155	0.5	85	--	--
30		20.7	--	--	--	--	--	38	6560	--	--	--	--
31		20.6	--	2.4	412	3	515	--	--	--	--	<0.01	<1.72
AVERAGE		22.5	7.5	2.7	504	4	821	42	7747	1.5	280	<0.01	<1.88
HIGHEST VAL.		28.0	7.6	5.6	1093	12	2112	53	10340	3.2	624	0.01	<2.34
LOWEST VAL.		20.2	7.3	0.9	165	0	0	27	4954	0.5	85	<0.01	<1.72
OVER LIMIT			0		0		0		0		0		0

CERTIFIED OPERATOR: George Cook NO. 5404 DATE: 9/26/97 AUTHORIZED AGENT: Mark E. Webster

--MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 8/97 AUGUST PROCESS WATER EFFLUENT page 2.

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	0.18	30	--	--	--	--	--	--					
2	1.90	334	--	--	--	--	--	--			--		
3	--	--	--	--	--	--	--	--			--		
4	2.05	369	0.02	3.6	--	--	--	--					
5	1.27	237	--	--	--	--	--	--					
6	0.83	147	--	--	<0.01	<1.8	0.001	0.2					
7	--	--	--	--	--	--	--	--					
8	1.22	226	--	--	--	--	--	--					
9	0.28	52	--	--	--	--	--	--			--		
10	--	--	--	--	--	--	--	--			--		
11	1.34	265	0.02	4.0	--	--	--	--					
12	0.53	105	--	--	--	--	--	--					
13	1.60	298	--	--	<0.01	<1.9	0.001	0.2					
14	--	--	--	--	--	--	--	--					
15	<0.09	<16	--	--	--	--	--	--					
16	0.22	43	--	--	--	--	--	--			--		
17	--	--	--	--	--	--	--	--			--		
18	0.18	38	0.02	4.2	--	--	--	--					
19	1.23	223	--	--	--	--	--	--					
20	1.40	288	--	--	<0.01	<2.1	0.001	0.2					
21	--	--	--	--	--	--	--	--					
22	0.27	51	--	--	--	--	--	--					
23	1.80	371	--	--	--	--	--	--			--		
24	--	--	--	--	--	--	--	--			--		
25	0.36	67	0.02	3.7	--	--	--	--					
26	0.23	42	--	--	--	--	--	--					
27	0.15	28	--	--	<0.01	<1.9	0.001	0.2					
28	--	--	--	--	--	--	--	--					
29	0.32	55	--	--	--	--	--	--					
30	0.25	43	--	--	--	--	--	--			--		
31	--	--	--	--	--	--	--	--			--		
AVERAGE	0.80	151	0.02	3.9	<0.01	<1.9	0.001	0.2	0	0	0	0	0
HIGHEST VAL.	2.05	371	0.02	4.2	<0.01	<2.1	0.001	0.2					
LOWEST VAL.	<0.09	<16	0.02	3.6	<0.01	<1.8	0.001	0.2					
OVER LIMIT		0		0		0		0			0		

CERTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

--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
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 002 8/97 AUGUST 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	125.4	8.3	2	2	0	22	36	1.10	--	<0.3	<0.3	<0.3
2	126.5	--	--	--	--	23	37	1.11	--	--	--	--
3	126.5	--	--	--	--	23	37	1.11	--	--	--	--
4	127.6	8.4	2	3	1	23	37	1.12	--	<0.3	<0.3	<0.3
5	128.1	--	2	2	0	23	37	1.12	--	--	--	--
6	127.2	8.2	2	2	0	22	36	1.11	<0.04	<0.3	<0.3	<0.3
7	127.8	--	2	2	0	23	36	1.04	--	--	--	--
8	128.5	8.2	2	2	0	22	36	1.12	--	<0.3	<0.3	<0.3
9	128.6	--	--	--	--	22	36	1.12	--	--	--	--
10	128.7	--	--	--	--	22	36	1.13	--	--	--	--
11	128.6	8.3	2	2	0	22	36	1.12	--	<0.3	0.3	0.3
12	128.7	--	2	2	0	22	37	1.21	--	--	--	--
13	123.8	8.3	2	2	0	22	36	1.08	<0.04	<0.3	0.3	0.3
14	120.4	--	2	2	0	22	35	0.98	--	--	--	--
15	120.4	8.3	2	2	0	21	35	1.05	--	0.4	0.9	0.5
16	121.4	--	--	--	--	22	36	1.06	--	--	--	--
17	123.7	--	--	--	--	22	37	1.16	--	--	--	--
18	125.3	8.3	2	3	1	22	36	1.10	--	<0.3	<0.3	<0.3
19	125.5	--	3	2	-1	22	36	1.10	--	--	--	--
20	126.3	8.3	2	2	0	22	36	1.10	<0.04	0.5	0.6	0.1
21	125.6	--	2	2	0	21	35	1.10	--	--	--	--
22	127.2	8.2	2	2	0	21	35	1.11	--	0.3	0.8	0.5
23	127.9	--	--	--	--	21	35	1.12	--	--	--	--
24	127.9	--	--	--	--	21	35	1.12	--	--	--	--
25	128.0	8.2	2	2	0	22	34	0.96	--	<0.3	<0.3	<0.3
26	128.4	--	2	2	0	22	35	1.04	--	--	--	--
27	128.3	8.3	2	2	0	21	35	1.12	<0.04	0.5	0.5	0.0
28	128.5	--	2	2	0	22	35	1.04	--	--	--	--
29	128.5	8.2	2	2	0	23	37	1.12	--	0.3	<0.3	0.0
30	128.6	--	--	--	--	22	36	1.12	--	--	--	--
31	128.6	--	--	--	--	22	36	1.12	--	--	--	--
AVERAGE	126.7	8.3	2	2	0	22	36	1.10	<0.04	<0.3	<0.4	<0.3
HIGHEST VAL.	128.7	8.4	3	3	1	23	37	1.21	0.04	0.5	0.9	0.3
LOWEST VAL.	120.4	8.2	2	2	-1	21	34	0.96	<0.04	<0.3	<0.3	0.0
OVER LIMIT	0	0			0			0	0	0		0

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

--MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 8/97 AUGUST 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				Closed
2				
3				
4				
5				
6				
7				
8				
9				
10				Closed
11	27	1.1	7.7	Open
12				
13				
14				
15				
16				
17	18	1.2	8.2	
18				
19				
20				
21				
22				
23				
24				Closed
25				
26				
27				
28				
29				
30				
31				
AVERAGE	23	1.2	7.9	
HIGHEST VAL.	27	1.2	8.2	
LOWEST VAL.	18	1.1	7.7	
OVER LIMIT	0	0	0	

CERTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

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

{WLSTAT}

PERMIT NO. IN0000108 8/97 AUGUST STORM WATER RUNOFF

- - - - - O U T F A L L 0 0 4 - - - -

*** 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				Closed
2				
3				
4				
5				
6				
7				
8				
9				
10				
11	53	6.1	8.4	Open
12				
13				
14				Closed
15				
16				
17	28	1.6	7.8	Open
18				
19				
20	23	2.2	8.5	
21				Closed
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
AVERAGE	35	3.3	8.2	
HIGHEST VAL.	53	6.1	8.5	
LOWEST VAL.	23	1.6	7.8	
OVER LIMIT	0	0	0	

CERTIFIED OPERATOR : George T. Cook NO. 5404 DATE : 9/26/97 AUTHORIZED AGENT : Mark E. Webster

Microbac

Microbac Laboratories Inc.
Seaway Division
544 Conkey Street
Hammond, IN 46324
(219) 932-1770
INDIANA CERTIFICATION NUMBERS: M-45-8 C-45-02
AIR • FUEL • WATER • FOOD • WASTES

CERTIFICATE OF ANALYSIS

Mark Webster MC 242
Amoco Oil Company
P.O. Box 710
Whiting, IN 46394

Date Reported: 8/15/97
P.O. Number: 801-9-9391838 Rel 1
Sample ID: 9708-00063
Date Received: 8/06/97
Time Received: 13:40

Permit Number

PARAMETERS	RESULTS	DATE	TECH	METHOD
SUBJECT: #6 Seperator, 8/6/97 @ 13:20 by ADK				
Total Residual Chlorine	<0.04 mgClasCl2/	8/06/97	CPS	4500-CL-I

Submitted with Quality by Karen A Bjorkquist

The data and other information contained on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon the condition that it is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory.

Microbac

CHAIN OF CUSTODY RECORD

Microbac Laboratories, Inc.
Seaway Industrial Laboratory Division
542-544 Conkey Street Hammond, Indiana 46324
219/932-1770 219/932-1721 Fax

_____ COMPOSITE
_____ AUTOMATIC
_____ DISCRETE
_____ FLOW PROPORTIONED
_____ CONTINUOUS
_____ TIME

BEGIN: DATE _____ TIME _____ FLOW _____
END: DATE _____ TIME _____ FLOW _____
TEMP _____ TECH _____ MLS/Sample _____ # Samples _____
TOTAL FLOW _____ INTERVAL _____

P.O. #:
CLIENT NAME: AMOCO REFINERY
LOCATION/PROJECT: WHITING, IN.
SAMPLERS (Signature):
SEND REPORT TO: Pete Beronio
PHONE ( )
LAB I.D. #: 9708-63
Sample Chest #: 88
Chest Temp.: 4 °C
Sample Temp. at Lab: 15 °C
Method of Shipment to Lab: hand delivery
Date: 8/6/97 Time: 1320

ANALYSES REQUESTED

SAMPLE LOCATION	COLLECTED DATE	COLLECTED TIME	SAMPLE TYPE COMP.	SAMPLE TYPE GRAB	SAMPLE TYPE MATRIX	NO. OF CONTAINERS	CONTAINER TYPE PRESERVATIVE	TRC								REMARKS OBSERVATIONS LIST SPECIAL HAZARDS HERE	RETURN SAMPLES TO CLIENT
#6 SEPARATOR	8/6/97	1320		X	H_2O	1	glass none	X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
1			2	3			4
5			6	7			8
9	8/6/97	1320	Received for Lab by: (Signature)	8/6/97	1320		

Page 1 of 1

Microbac Laboratories, Inc.
Seaway Division
544 Conkey Street
Hammond, IN 46324
(219) 932-1770
INDIANA CERTIFICATION NUMBERS: M-45-8 C-45-02
AIR • FUEL • WATER • FOOD • WASTES

CERTIFICATE OF ANALYSIS

Mark Webster MC 242
Amoco Oil Company
P.O. Box 710
Whiting, IN 46394

Date Reported: 8/15/97
P.O. Number: 801-9-9391838 Rel 1
Sample ID: 9708-00128
Date Received: 8/13/97
Time Received: 13:00

Permit Number

PARAMETERS	RESULTS	DATE	TECH	METHOD
SUBJECT: #6 Seperator, 8/13/97 @ 12:20 by ADK				
Total Residual Chlorine	<0.04 mgClasCl2/	8/13/97	CPS	4500-CL-I

Submitted with Quality by Karen A Bjorkquist

The data and other information contained on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon the condition that it is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory.

CHAIN OF CUSTODY RECORD

Microbac Laboratories, Inc.
Seaway Industrial Laboratory Division
542-544 Conkey Street Hammond, Indiana 46324
219/932-1770 219/932-1721 Fax

Microbac

_____ COMPOSITE
_____ AUTOMATIC
_____ DISCRETE
_____ FLOW PROPORTIONED
_____ CONTINUOUS
_____ TIME

BEGIN: DATE _____ TIME _____ FLOW _____
END: DATE _____ TIME _____ FLOW _____
TOTAL FLOW _____ INTERVAL _____

TEMP _____ TECH _____ MLS/Sample _____ # Samples _____

P.O. #:
CLIENT NAME: AMOCO REFINERY
LOCATION/PROJECT: WHITING, IN.
SAMPLERS (Signature):
SEND REPORT TO: Pete Beronio
PHONE ( )
LAB I.D. #: 9708.128
Sample Chest #:
Chest Temp. 4 °C
Sample Temp. at Lab 15 °C
Method of Shipment to Lab: hand delivery
Date 8/13/97 Time 1300

SAMPLE LOCATION	COLLECTED DATE	COLLECTED TIME	SAMPLE TYPE COMP.	SAMPLE TYPE GRAB	SAMPLE TYPE MATRIX	NO. OF CONTAINERS	CONTAINER TYPE / PRESERVATIVE	TRC								REMARKS OBSERVATIONS / LIST SPECIAL HAZARDS HERE	RETURN SAMPLES TO CLIENT
#6 SEPARATOR	8/13/97	1220		X	H_2O	1	glass none	X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
1			2	3			4
5			6	7			8
Relinquished by: (Signature)	Date 8/13/97	Time 1220	Received for Lab by: (Signature)	Date 8/13/97	Time 1300		

Page 1 of 1

Microbac

Microbac Laboratories Inc.
Seaway Division
544 Conkey Street
Hammond, IN 46324
(219) 932-1770
INDIANA CERTIFICATION NUMBERS: M-45-8 C-45-02
AIR • FUEL • WATER • FOOD • WASTES

CERTIFICATE OF ANALYSIS

Mark Webster MC 242
Amoco Oil Company
P.O. Box 710
Whiting, IN 46394

Date Reported: 8/20/97
P.O. Number: 801-9-9391838 Rel 1
Sample ID: 9708-00193
Date Received: 8/20/97
Time Received: 13:45

Permit Number

PARAMETERS	RESULTS	DATE	TECH	METHOD
SUBJECT: #6 Seperator, 8/20/97 @ 13:20 by ADK				
Total Residual Chlorine	<0.04 mgClasCl2/	8/20/97	KAZ	4500-CL-I

Submitted with Quality by Karen A Zielkowski.

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

MEMBER ACIL

CHAIN OF CUSTODY RECORD

Microbac Laboratories, Inc.
Seaway Industrial Laboratory Division
542-544 Conkey Street Hammond, Indiana 46324
219/932-1770 219/932-1721 Fax

_____ COMPOSITE
_____ AUTOMATIC
_____ DISCRETE
_____ FLOW PROPORTIONED
_____ CONTINUOUS
_____ TIME

BEGIN: DATE _____ TIME _____ FLOW _____
END: DATE _____ TIME _____ FLOW _____
TOTAL FLOW _____ INTERVAL _____
TEMP _____ TECH _____ MLS/Sample _____ # Samples _____

P.O. #:
CLIENT NAME: AMOCO REFINERY
LOCATION/PROJECT: WHITING, IN.
SAMPLERS (Signature): [signature]
SEND REPORT TO:
PHONE ( )
LAB I.D. #: 9708-193
Sample Chest #: 88
Chest Temp: 9 °C
Sample Temp. at Lab: 15 °C
Method of Shipment To Lab: hand delivery
Date: 8/20/97 Time: 1345

ANALYSES REQUESTED

SAMPLE LOCATION	COLLECTED DATE	COLLECTED TIME	SAMPLE TYPE COMP.	SAMPLE TYPE GRAB	SAMPLE TYPE MATRIX	NO. OF CONTAINERS	CONTAINER TYPE PRESERVATIVE	TRC								REMARKS OBSERVATIONS LIST SPECIAL HAZARDS HERE	RETURN SAMPLES TO CLIENT
#6 SEPARATOR	8/20/97	1320		X	H_2O	1	glass none	X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
1			2	3			4
5			6	7			8
9	8/20/97	1320	Received for Lab by: (Signature) [signature]	8/20/97	1345		

Page 1 of 1

Microbac

Microbac Laboratories, Inc.

Seaway Division
544 Conkey Street
Hammond, IN 46324
(219) 932-1770
INDIANA CERTIFICATION NUMBERS: M-45-8 C-45-02

AIR • FUEL • WATER • FOOD • WASTES

CERTIFICATE OF ANALYSIS

Mark Webster MC 242
Amoco Oil Company
P.O. Box 710
Whiting, IN 46394

Date Reported: 8/29/97
P.O. Number: 801-9-9391838 Rel 1
Sample ID: 9708-00289
Date Received: 8/27/97
Time Received: 15:40

Permit Number

PARAMETERS	RESULTS	DATE	TECH	METHOD
SUBJECT: #6 Seperator, 8/27/97 @ 15:15 by ADK				
Total Residual Chlorine	<0.04 mgClasCl2/	8/27/97	CPS	4500-CL-I

Submitted with Quality by Karen A Bielkowski

The data and other information contained on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon the condition that it is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory.

USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

MEMBER ACIL

CHAIN OF CUSTODY RECORD

Microbac Laboratories, Inc.
Seaway Industrial Laboratory Division
542-544 Conkey Street Hammond, Indiana 46324
219/932-1770 219/932-1721 Fax

_____ COMPOSITE
_____ AUTOMATIC
_____ DISCRETE
_____ FLOW PROPORTIONED
_____ CONTINUOUS
_____ TIME

BEGIN: DATE _____ TIME _____ FLOW _____
END: DATE _____ TIME _____ FLOW _____
TOTAL FLOW _____ INTERVAL _____

TEMP _____
TECH _____
MLS/Sample _____
Samples _____

P.O. #

CLIENT NAME: AMOCO REFINERY

LOCATION/PROJECT: WHITING, IN.

SAMPLERS (Signature):

SEND REPORT TO:

PHONE ( )

LAB I.D. #: 9708-289

Sample Chest #:

Chest Temp: °C

Sample Temp. at Lab: 15 °C

Method of Shipment To Lab: hand delivery

Date: 8/27/97 Time: 1540

ANALYSES REQUESTED

SAMPLE LOCATION	COLLECTED DATE	COLLECTED TIME	SAMPLE TYPE COMP.	SAMPLE TYPE GRAB	SAMPLE TYPE MATRIX	NO. OF CONTAINERS	CONTAINER TYPE / PRESERVATIVE	TRC								REMARKS OBSERVATIONS / LIST SPECIAL HAZARDS HERE	RETURN SAMPLES TO CLIENT
#6 SEPARATOR	8/27/97	1515		X	H_2O	1	glass none	X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
1			2	3			4
5			6	7			8
Relinquished by: (Signature)	8/27/97	1515	Received for Lab by: (Signature)	Date 8/27/97	Time 1540		

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME AMERICAN OIL COMPANY (AMOCO)
ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394
FACILITY AMERICAN OIL COMPANY (AMOCO)
LOCATION WHITING IN 46394
ATTN: DANIEL H. WILSON, REF. MGR.

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

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

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	08	01	TO	97	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval Expires 05-31-98

F - FINAL
MAJOR
EFFLUE
*** 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) QUANTITY 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)
ECD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	504	1093	(26)	******	2.7	5.6	(19)			
00310 1 0 0	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIMES /WEEK	COMP24
EFFLUENT GROSS VALU											
OXYGEN DEMAND, CHEM. (LOW LEVEL) (COD)	SAMPLE MEASUREMENT	7747	10,340	(26)	******	42	53	(19)			
00335 1 0 0	PERMIT REQUIREMENT	30323 MO AVG	56427 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		THREE/WEEK	COMP24
EFFLUENT GROSS VALU											
PH	SAMPLE MEASUREMENT	******	******		7.3	******	7.6	(12)			
00400 1 0 0	PERMIT REQUIREMENT	******	******	**** ****	6.5 MINIMUM	******	9 MAXIMUM	SU		THREE/WEEK	GRAB
EFFLUENT GROSS VALU											
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	821	2112	(26)	******	4.0	12	(19)			
00530 1 0 0	PERMIT REQUIREMENT	3646 MO AVG	5694 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIMES /WEEK	COMP24
EFFLUENT GROSS VALU											
OIL & GREASE (FREON EXTR.-IR METH) TOT, R	SAMPLE MEASUREMENT	280	624	(26)	******	1.5	3.2	(19)			
00560 1 0 0	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEK-DAYS	GRAB
EFFLUENT GROSS VALU											
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	151	371	(26)	******	0.8	2.05	(19)			
00610 1 0 0	PERMIT REQUIREMENT	1030 MO AVG	2060 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIMES /WEEK	COMP24
EFFLUENT GROSS VALU											
SULFIDE, TOTAL (AS S)	SAMPLE MEASUREMENT	3.9	4.2	(26)	******	0.02	0.02	(19)			
00745 1 0 0	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEKLY	COMP24
EFFLUENT GROSS VALU											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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 U.S.C. § 1001 AND 33 U.S.C. § 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		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*

NAME AMERICAN OIL COMPANY (AMOCO)

ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394

FACILITY AMERICAN OIL COMPANY (AMOCO)

LOCATION WHITING IN 46394

ATTN: DANIEL H. WILSON, REF. MGR.

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

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

1 2 3 4 5

F - FINAL
MAJOR
EFFLUE
*** NO DISCHARGE |__| ***

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	06	01	TO	97	06	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	0.2	0.2	(26)	******	0.001	0.001	(19)			
	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 VALU	SAMPLE MEASUREMENT	<1.9	<2.1	(26)	******	<0.01	<0.01	(19)			
	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		WEEKLY	COMP24
PHENOLICS, TOTAL RECOVERABLE 32730 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	<1.88	<2.34	(26)	******	<0.01	0.01	(19)			
	PERMIT REQUIREMENT	20.33 MO AVG	73.01 DAILY MX	LBS/DY	******	REPORT MO AVG	REPORT DAILY MX	MG/L		THREE/ WEEK	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	22.5	28	(03)	******	******	******				
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	*		(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	0.05 DAILY MX	MG/L		5 TIMES /WEEK	GRAB
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	**		(13)			
	PERMIT REQUIREMENT	******	******	**** ****	******	200 MO AVG	400 DAILY MX	#/ 100ML		5 TIMES /WEEK	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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 U.S.C. § 1001 AND 33 U.S.C. § 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		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

*

* *

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME AMERICAN OIL COMPANY (AMOCO)

ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394

FACILITY AMERICAN OIL COMPANY (AMOCO)

LOCATION WHITING IN 46394

ATTN: DANIEL H. WILSON, REF. MGR.

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

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

F - FINAL
MAJOR
EFFLUE

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	08	01	TO	97	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE |__| ***

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

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) QUANTITY 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 VALU	SAMPLE MEASUREMENT	******	******		******	36	37	(04)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	DEG.C		5 TIMES /WEEK	CONTIN
TEMPERATURE, WATER D . CENTIGRADE 00010 7 0 0 INTAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	22	23	(04)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	DEG.C		5 TIMES /WEEK	CONTIN
WASTE HEAT REJECTION RATE 00179 2 0 0 EFFLUENT NET VALUE	SAMPLE MEASUREMENT	1,100	1,210	(05)	******	******	******				
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV	MBTU/ HR	******	******	******	**** ****		5 TIMES /WEEK	CONTIN
PH 00400 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		8.2	******	8.4	(12)			
	PERMIT REQUIREMENT	******	******	**** ****	7 MINIMUM	******	9 MAXIMUM	SU		THREE/ WEEK	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT,R 00560 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	<0.4	0.9	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX	MG/L		THREE/ WEEK	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT,R 00560 2 0 0 EFFLUENT NET VALUE	SAMPLE MEASUREMENT	******	******		******	<0.3	0.3	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX	MG/L		THREE/ WEEK	GRAB
OIL & GREASE (FREON EXTR.-IR METH) TOT,R 00560 7 0 0 INTAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	<0.3	0.5	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L		THREE/ WEEK	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
	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 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*		AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME AMERICAN OIL COMPANY (AMOCO)

ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394

FACILITY AMERICAN OIL COMPANY (AMOCO)

LOCATION WHITING IN 46394

ATTN: DANIEL H. WILSON, REF. MGR.

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

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

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	06	01	TO	97	06	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

12345

F - FINAL
MAJOR
EFFLUE
*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
CARBON, TOT ORGANIC (TOC) 00680 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	2.0	3.0	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIM/WEEK	GRAB
CARBON, TOT ORGANIC (C) 00680 2 0 0 EFFLUENT NET VALUE	SAMPLE MEASUREMENT	******	******		******	0.0	1.0	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	5.0 DAILY MX	MG/L		5 TIM/WEEK	GRAB
CARBON, TOT ORGANIC (TOC) 00680 7 0 0 INTAKE FROM STREAM	SAMPLE MEASUREMENT	******	******		******	2.0	3.0	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L		5 TIM/WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	126.7	128.7	(03)	******	******	******				
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		******	<0.04	0.04	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	0.05 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
	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 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*		AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

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

NAME AMERICAN OIL COMPANY (AMOCO)
ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394
FACILITY AMERICAN OIL COMPANY (AMOCO)
LOCATION WHITING IN 46394
ATTN: DANIEL H. WILSON, REF. MGR.

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

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	08	01	TO	97	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

F - FINAL
MAJOR
EFFLUE
*** 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) QUANTITY 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	******	******		7.7	******	8.2	(12)			
00400 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON E/ [illegible].-IR METH) TOT, R	SAMPLE MEASUREMENT	******	******		******	1.2	1.2	(19)			
00560 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15.0 DAILY MX	MG/L		WEEKLY	GRAB
CARBON, TOT ORGANIC (TOC)	SAMPLE MEASUREMENT	******	******		******	23	27	(19)			
00680 1 0 0 EFFLUENT GROSS VALU	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

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

EPA Form 3320-1 (08-95) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

WHITING
00145/970606-0850

PERMITTEE NAME/ADDRESS *(Include Facility Name/ Location if Different)*

NAME AMERICAN OIL COMPANY (AMOCO)

ADDRESS WHITING REFINERY
2815 INDIANAPOLIS BOULEVARD
WHITING IN 46394

FACILITY AMERICAN OIL COMPANY (AMOCO)

LOCATION WHITING IN 46394

ATTN: DANIEL H. WILSON, REF. MGR.

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

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

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

F - FINAL
MAJOR
EFFLUE
*** NO DISCHARGE |__| ***

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	08	01	TO	97	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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) QUANTITY 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	******	******		7.8	******	8.5	(12)			
00400 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	6 MINIMUM	******	9 MAXIMUM	SU		WEEKLY	GRAB
OIL & GREASE (FREON (IR.-IR METH) TOT,R	SAMPLE MEASUREMENT	******	******		******	3.3	6.1	(19)			
00560 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	15.0 DAILY MX	MG/L		ONCE/ MONTH	GRAB
CARBON, TOT ORGANIC (TOC)	SAMPLE MEASUREMENT	******	******		******	35	53	(19)			
00680 1 0 0 EFFLUENT GROSS VALU	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	110 DAILY MX	MG/L		WEEKLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*		TELEPHONE	DATE
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR / MO / DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

WHITING

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