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.F. NACCACHE

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

(2-16) PERMIT NUMBER: INC0000108
(17-19) DISCHARGE NUMBER: 004 A

F - FINAL
MAJOR

Form Approved.
OMB No. 2040-0004. 12345
Approval expires 6-30-91.

MONITORING PERIOD
FROM YEAR 95 MO 09 DAY 01 TO YEAR 95 MO 09 DAY 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) 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 | ****** | ****** | | No Discharge | ****** | No Discharge | ( 12) | 0 | * | |
| 00400 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ****** | ****** | **** **** | 6 MINIMUM | ****** | 9 MAXIMUM | SU | | WEEKLY | GRAB |
| OIL & GREASE (FREON EXTR.-IR METH) TOT, RC | SAMPLE MEASUREMENT | ****** | ****** | | ****** | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00560 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ****** | ****** | **** **** | ****** | REPORT MO AVG | 15.0 DAILY MX | MG/L | | ONCE/ MONTH | GRAB |
| CARBON, TOT ORGANIC (TOC) | SAMPLE MEASUREMENT | ****** | ****** | | ****** | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00680 1 0 0 EFFLUENT 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 | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Authorized Agent:
Peter B. Beronio
Environmental Engineer-Water
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.)*

Peter B Beronio
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3459

DATE: YEAR 95 | MO 10 | DAY 27

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

Outfall 004 was closed the entire month of September.

**Amoco Petroleum Products**
**Refining Business Group**
**Whiting Business Unit**

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

**CERTIFIED MAIL**
**RETURN RECEIPT REQUESTED**

November 21, 1995

Office of Water Management
Indiana Department of Environmental Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46206-6015

**NPDES Permit No. 0000108, Serial 001**

Please note that a typographical error for the September, 1995, Discharge Monitoring Report for Outfall 001 was made. The daily maximum value for Chemical Oxygen Demand (COD) was reported as 1,340 lbs/day. In actuality, the daily maximum value for COD was 11,340 lbs/day. The daily maximum COD permit limit is 58,427 lbs/day. Therefore, permit compliance was maintained.

If you have any questions, please call me at 219-473-3459.

Sincerely,

Peter B. Beronio

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 9/95 SEPTEMBER 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 | 16.9 | 7.5 | -- | -- | -- | -- | 45 | 6335 | 1.4 | 197 | -- | -- |
| 2 | 16.8 | -- | -- | -- | -- | -- | 81 | 11340 | -- | -- | -- | -- |
| 3 | 16.5 | -- | 1.8 | 247 | 5 | 687 | -- | -- | -- | -- | <0.01 | 0.00 |
| 4 | 16.5 | 7.5 | 1.7 | 234 | 4 | 550 | -- | -- | 0.8 | 110 | -- | -- |
| 5 | 17.2 | -- | 1.8 | 258 | 7 | 1003 | 50 | 7164 | 0.9 | 129 | <0.01 | 0.00 |
| 6 | 17.6 | 7.6 | 2.0 | 293 | 11 | 1613 | -- | -- | 1.2 | 176 | -- | -- |
| 7 | 17.4 | -- | 2.4 | 348 | 12 | 1739 | -- | -- | 1.9 | 275 | <0.01 | 0.00 |
| 8 | 16.5 | 7.7 | -- | -- | -- | -- | 46 | 6322 | 1.3 | 179 | -- | -- |
| 9 | 16.8 | -- | -- | -- | -- | -- | 35 | 4898 | -- | -- | -- | -- |
| 10 | 15.9 | -- | 1.4 | 185 | 7 | 927 | -- | -- | -- | -- | <0.01 | 0.00 |
| 11 | 17.0 | 7.8 | 1.2 | 170 | 9 | 1274 | -- | -- | 0.9 | 127 | -- | -- |
| 12 | 18.1 | -- | 1.6 | 241 | 6 | 905 | 50 | 7539 | 1.6 | 241 | <0.01 | 0.00 |
| 13 | 17.4 | 7.6 | 1.6 | 232 | 9 | 1304 | -- | -- | 0.8 | 116 | -- | -- |
| 14 | 17.6 | -- | 1.4 | 205 | 7 | 1026 | -- | -- | 0.9 | 132 | <0.01 | 0.00 |
| 15 | 17.2 | 7.7 | -- | -- | -- | -- | 50 | 7164 | 0.7 | 100 | -- | -- |
| 16 | 16.8 | -- | -- | -- | -- | -- | 42 | 5878 | -- | -- | -- | -- |
| 17 | 17.1 | -- | 1.2 | 171 | 7 | 997 | -- | -- | -- | -- | <0.01 | 0.00 |
| 18 | 16.4 | 7.6 | 1.4 | 191 | 7 | 956 | -- | -- | 1.1 | 150 | -- | -- |
| 19 | 13.0 | -- | 1.7 | 184 | 10 | 1083 | 49 | 5306 | 1.2 | 130 | <0.01 | 0.00 |
| 20 | 13.1 | 7.5 | 2.1 | 229 | 9 | 982 | -- | -- | 1.5 | 164 | -- | -- |
| 21 | 13.2 | -- | 2.9 | 319 | 9 | 990 | -- | -- | 1.6 | 176 | <0.01 | 0.00 |
| 22 | 11.6 | 7.6 | -- | -- | -- | -- | 35 | 3382 | 0.6 | 58 | -- | -- |
| 23 | 10.7 | -- | -- | -- | -- | -- | 37 | 3298 | -- | -- | -- | -- |
| 24 | 10.9 | -- | 1.5 | 136 | 8 | 726 | -- | -- | -- | -- | <0.01 | 0.00 |
| 25 | 10.5 | 7.6 | 1.2 | 105 | 7 | 612 | -- | -- | 0.7 | 61 | -- | -- |
| 26 | 10.0 | -- | 1.6 | 133 | 10 | 833 | 50 | 4165 | 0.9 | 75 | <0.01 | 0.00 |
| 27 | 11.6 | 7.7 | 1.6 | 155 | 12 | 1160 | -- | -- | 0.9 | 87 | -- | -- |
| 28 | 11.8 | -- | 0.8 | 79 | 3 | 295 | -- | -- | 0.3 | <29 | 0.01 | 1.00 |
| 29 | 11.5 | 7.3 | -- | -- | -- | -- | 40 | 3832 | 0.7 | 67 | -- | -- |
| 30 | 10.2 | -- | -- | -- | -- | -- | 51 | 4333 | -- | -- | -- | -- |
| AVERAGE | 14.8 | 7.6 | 1.6 | 206 | 8 | 983 | 47 | 5783 | 1.0 | 132 | <0.01 | 0.08 |
| HIGHEST VAL. | 18.1 | 7.8 | 2.9 | 348 | 12 | 1739 | 81 | 11340 | 1.9 | 275 | 0.01 | 1.00 |
| LOWEST VAL. | 10.0 | 7.3 | 0.8 | 79 | 3 | 295 | 35 | 3298 | 0.3 | <29 | <0.01 | 0.00 |
| OVER LIMIT | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

CERTIFIED OPERATOR : George J Cook NO. 5404 DATE : 10/24/95 AUTHORIZED AGENT : Patricia Burrows

--MEANS NOT TESTED THIS DATE.

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 9/95 SEPTEMBER 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 | NH3-N mg/l | NH3-N LB/D | SULFIDE mg/l | SULFIDE LB/D | TL.CHRM mg/l | TL.CHRM LB/D | HX.CHRM mg/l | HX.CHRM LB/D | SELENIUM ug/L | SELENIUM LB/D | FECAL C COLONIES | 2378-CDD pg/L | 2378-CDF pg/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.23 | 32 | -- | -- | -- | -- | -- | -- | | | | | |
| 2 | 0.17 | 24 | -- | -- | -- | -- | -- | -- | | | -- | | |
| 3 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| 4 | 0.16 | 22 | 0.02 | 3.0 | -- | -- | -- | -- | | | | | |
| 5 | 0.10 | 14 | -- | -- | -- | -- | -- | -- | | | | | |
| 6 | 0.28 | 41 | -- | -- | (0.01 | (1.5 | 0.001 | 0.1 | | | | | |
| 7 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| 8 | 0.12 | 16 | -- | -- | -- | -- | -- | -- | | | | | |
| 9 | 0.11 | 15 | -- | -- | -- | -- | -- | -- | | | -- | | |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| 11 | 0.15 | 21 | 0.02 | 3.0 | -- | -- | -- | -- | | | | | |
| 12 | 0.18 | 27 | -- | -- | -- | -- | -- | -- | | | | | |
| 13 | 0.24 | 35 | -- | -- | (0.01 | (1.4 | 0.001 | 0.1 | | | | | |
| 14 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| 15 | (0.10 | (14 | -- | -- | -- | -- | -- | -- | | | | | |
| 16 | (0.10 | (14 | -- | -- | -- | -- | -- | -- | | | -- | | |
| 17 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| 18 | 0.23 | 31 | 0.02 | 3.0 | -- | -- | -- | -- | | | | | |
| 19 | 0.23 | 25 | -- | -- | -- | -- | -- | -- | | | | | |
| 20 | 0.25 | 27 | -- | -- | (0.01 | (1.1 | 0.001 | 0.1 | | | | | |
| 21 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| 22 | 0.18 | 17 | -- | -- | -- | -- | -- | -- | | | | | |
| 23 | 0.11 | 10 | -- | -- | -- | -- | -- | -- | | | -- | | |
| 24 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| 25 | 0.12 | 10 | 0.02 | 2.0 | -- | -- | -- | -- | | | | | |
| 26 | 0.11 | 9 | -- | -- | -- | -- | -- | -- | | | | | |
| 27 | 0.13 | 13 | -- | -- | (0.01 | (1.0 | 0.004 | 0.4 | | | | | |
| 28 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| 29 | 0.09 | 9 | -- | -- | -- | -- | -- | -- | | | | | |
| 30 | 0.19 | 16 | -- | -- | -- | -- | -- | -- | | | -- | | |
| AVERAGE | 0.16 | 20 | 0.02 | 2.8 | (0.01 | (1.2 | 0.002 | 0.2 | 0 | 0 | 0 | 0 | 0 |
| HIGHEST VAL. | 0.28 | 41 | 0.02 | 3.0 | <0.01 | <1.5 | 0.004 | 0.4 | | | | | |
| LOWEST VAL. | (0.09 | (9 | 0.02 | 2.0 | (0.01 | (1.0 | 0.001 | 0.1 | | | | | |
| OVER LIMIT | | 0 | | 0 | | 0 | | 0 | | | 0 | | |

CERTIFIED OPERATOR : George T Cook NO. 5404 DATE : 10/24/95 AUTHORIZED AGENT : Peter Burmeo

--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 9/95 SEPTEMBER COOLING WATER EFFLUENT

| PARAMETER CODE / SAMPLE TYPE / FREQUENCY | FLOW Q50050 | pH C00400 | IN-TOC C99680 | OUT-TOC C00680 | DELTA TOC | IN-TEMP C00010 | TEMP | HEAT C99003 | RESID-CL | IN-OIL | OIL C00550 | DELTA OIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 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 | 124.1 | 7.9 | 2 | 2 | 0 | 23 | 39 | 1.24 | -- | 0.4 | 1.9 | 1.5 |
| 2 | 125.8 | -- | -- | -- | -- | 24 | 39 | 1.18 | -- | -- | -- | -- |
| 3 | 126.3 | -- | -- | -- | -- | 23 | 39 | 1.26 | -- | -- | -- | -- |
| 4 | 125.5 | 7.8 | 2 | 2 | 0 | 23 | 40 | 1.33 | -- | <0.3 | 1.0 | 0.7 |
| 5 | 123.0 | -- | 2 | 2 | 0 | 23 | 40 | 1.31 | -- | -- | -- | -- |
| 6 | 121.5 | 7.8 | 2 | 2 | 0 | 24 | 40 | 1.21 | <0.04 | <0.3 | 0.9 | 0.6 |
| 7 | 121.1 | -- | 2 | 2 | 0 | 22 | 39 | 1.29 | -- | -- | -- | -- |
| 8 | 120.0 | 8.1 | 2 | 2 | 0 | 24 | 39 | 1.12 | -- | <0.3 | 1.2 | 0.9 |
| 9 | 121.0 | -- | -- | -- | -- | 20 | 38 | 1.36 | -- | -- | -- | -- |
| 10 | 121.2 | -- | -- | -- | -- | 20 | 37 | 1.29 | -- | -- | -- | -- |
| 11 | 121.7 | 7.9 | 2 | 2 | 0 | 19 | 37 | 1.37 | -- | <0.3 | 0.8 | 0.5 |
| 12 | 127.1 | -- | 2 | 2 | 0 | 19 | 37 | 1.43 | -- | -- | -- | -- |
| 13 | 127.1 | 7.8 | 2 | 2 | 0 | 19 | 37 | 1.43 | <0.04 | 0.3 | 1.0 | 0.7 |
| 14 | 125.9 | -- | 2 | 2 | 0 | 20 | 38 | 1.42 | -- | -- | -- | -- |
| 15 | 124.1 | 7.8 | 2 | 2 | 0 | 21 | 38 | 1.32 | -- | 0.4 | 0.6 | 0.2 |
| 16 | 121.1 | -- | -- | -- | -- | 21 | 38 | 1.29 | -- | -- | -- | -- |
| 17 | 119.0 | -- | -- | -- | -- | 21 | 37 | 1.19 | -- | -- | -- | -- |
| 18 | 121.5 | 8.0 | 2 | 3 | 1 | 20 | 37 | 1.29 | -- | <0.3 | 1.6 | 1.3 |
| 19 | 124.3 | -- | 2 | 2 | 0 | 20 | 37 | 1.32 | -- | -- | -- | -- |
| 20 | 125.0 | 8.1 | 2 | 2 | 0 | 21 | 37 | 1.25 | <0.04 | 0.6 | 1.2 | 0.6 |
| 21 | 124.5 | -- | 2 | 2 | 0 | 19 | 36 | 1.32 | -- | -- | -- | -- |
| 22 | 125.6 | 8.2 | 2 | 2 | 0 | 19 | 34 | 1.18 | -- | <0.3 | 1.6 | 1.3 |
| 23 | 125.8 | -- | -- | -- | -- | 19 | 35 | 1.26 | -- | -- | -- | -- |
| 24 | 125.3 | -- | -- | -- | -- | 18 | 38 | 1.57 | -- | -- | -- | -- |
| 25 | 126.3 | 8.1 | 2 | 2 | 0 | 18 | 35 | 1.34 | -- | <0.3 | 0.9 | 0.6 |
| 26 | 128.0 | -- | 2 | 3 | 1 | 18 | 34 | 1.28 | -- | -- | -- | -- |
| 27 | 128.1 | 8.1 | 2 | 2 | 0 | 19 | 35 | 1.28 | <0.04 | <0.3 | 0.5 | 0.2 |
| 28 | 128.5 | -- | 2 | 2 | 0 | 19 | 34 | 1.20 | -- | -- | -- | -- |
| 29 | 127.8 | 8.1 | 2 | 2 | 0 | 18 | 33 | 1.20 | -- | <0.3 | 0.4 | 0.1 |
| 30 | 125.3 | -- | -- | -- | -- | 19 | 33 | 1.10 | -- | -- | -- | -- |
| AVERAGE | 124.4 | 8.0 | 2 | 2 | 0 | 20 | 37 | 1.29 | <0.04 | <0.3 | 1.0 | 0.7 |
| HIGHEST VAL. | 128.5 | 8.2 | 2 | 3 | 1 | 24 | 40 | 1.57 | 0.04 | 0.6 | 1.9 | 1.5 |
| LOWEST VAL. | 119.0 | 7.8 | 2 | 2 | 0 | 18 | 33 | 1.10 | <0.04 | <0.3 | 0.4 | 0.1 |
| OVER LIMIT | | 0 | | | 0 | | | 0 | 0 | | | 0 |

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : 10/24/95 AUTHORIZED AGENT : Peter Bruno

--MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 9/95 SEPTEMBER 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 | | | |
| 7 | 49 | 2.5 | 7.8 |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| AVERAGE | 49 | 2.5 | 7.8 |
| HIGHEST VAL. | 49 | 2.5 | 7.8 |
| LOWEST VAL. | 49 | 2.5 | 7.8 |
| OVER LIMIT | 0 | 0 | 0 |

CERTIFIED OPERATOR : George T Cook NO. 5404 DATE : 10/24/95 AUTHORIZED AGENT : Peter Berna

Outfall 003 was open from September 1 thru September 10, and then closed the remainder of the month.

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

{WLSTAT}

PERMIT NO. IN0000108 9/95 SEPTEMBER 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 | | | |
| 2 | | | |
| 3 | | | |
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| 28 | | | |
| 29 | | | |
| 30 | | | |
| AVERAGE | | | |
| HIGHEST VAL. | | | |
| LOWEST VAL. | | | |
| OVER LIMIT | 0 | 0 | 0 |

CERTIFIED OPERATOR : George T Cook NO. 5404 DATE : 10/24/95 AUTHORIZED AGENT : Peter Bennis

Outfall 004 was closed the entire month of September.

**Amoco Petroleum Products**
**Refining Business Group**
**Whiting Business Unit**

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

D. H. Wilson
Manager, Whiting Business Unit

October, 1995

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Z-097-114-535
Dear 11/28/95
lab

November 22, 1995

Indiana Department of Environmental Management
Office of Water Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46206-6015

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

Effluent quality data and Discharge Monitoring Report forms from Amoco Oil Company's Whiting Refinery for the month of October, 1995, are attached.

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

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,

D. H. Wilson

Attachments

October, 1995

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: 001 A

F - FINAL
MAJOR

Form Approved. 12345
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 95 | 10 | 01 | TO | 95 | 10 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 181 | 471 | ( 26) | ******* | 2.0 | 4.6 | ( 19) | 0 | 5X/ Week | Comp 24 |
| | PERMIT REQUIREMENT | 4161 MO AVG | 8164 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | TIME/WEEK | COMP24 |
| OXYGEN DEMAND, CHEM. (LOW LEVEL) (COD) 00335 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 4420 | 5878 | ( 26) | ******* | 50 | 64 | ( 19) | 0 | 3X/ Week | Comp 24 |
| | PERMIT REQUIREMENT | 30323 MO AVG | 59427 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | THREE/WEEK | COMP24 |
| PH 00400 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | 7.4 | ******* | 7.7 | ( 12) | 0 | 3X/ Week | Grab |
| | PERMIT REQUIREMENT | ****** | ****** **** | **** | 6.5 MINIMUM | ****** | 9 MAXIMUM | SU | | THREE/WEEK | GRAB |
| SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 807 | 1567 | ( 26) | ******* | 9.0 | 19.0 | ( 19) | 0 | 5X/ Week | Comp 24 |
| | PERMIT REQUIREMENT | 3646 MO AVG | 5694 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | TIME/WEEK | COMP24 |
| OIL & GREASE (FREON EXTR.-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 85 | 212 | ( 26) | ******* | 0.9 | 2.4 | ( 19) | 0 | Week-days | Grab |
| | PERMIT REQUIREMENT | 1368 MO AVG | 2600 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | WEEK-DAYS | GRAB |
| NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 42 | 560 | ( 26) | ******* | 0.46 | 6.00 | ( 19) | 0 | 5X/ Week | Comp 24 |
| | PERMIT REQUIREMENT | 1030 MO AVG | 2060 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | TIME/WEEK | COMP24 |
| SULFIDE, TOTAL (AS S) 00745 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 2.6 | 4.0 | ( 26) | ******* | 0.03 | 0.04 | ( 19) | 0 | 1X/ Week | Comp 24 |
| | PERMIT REQUIREMENT | 23.1 MO AVG | 51.4 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | WEEKLY | COMP24 |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Authorized Agent:
Peter B. Beronio
Environmental Engineer-Water
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.)*

Peter B Beronio
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3459

DATE: YEAR 95 | MO 11 | DAY 21

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

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

# DISCHARGE MONITORING REPORT (DMR)

(2-16) IN0000124 PERMIT NUMBER

(17-19) 001 A DISCHARGE NUMBER

F - FINAL
MAJOR

Form Approved. 12345
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 95 | 10 | 01 | TO | 95 | 10 | 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) MG/L | 0 | 1X/Week | Comp 24 |
| | PERMIT REQUIREMENT | 2.01 MO AVG | 4.40 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | | | WEEKLY | COMP24 |
| CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | <0.9 | <1.0 | (26) | ******* | <0.01 | <0.01 | (19) MG/L | 0 | 1X/Week | Comp 24 |
| | PERMIT REQUIREMENT | 23.9 MO AVG | 68.53 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | | | WEEKLY | COMP24 |
| PHENOLICS, TOTAL RECOVERABLE 32730 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 0.07 | 1.00 | (26) | ******* | <0.01 | 0.01 | (19) MG/L | 0 | 3X/Week | Comp 24 |
| | PERMIT REQUIREMENT | 21.33 MO AVG | 73.01 DAILY MX | LBS/DY | ****** | REPORT MO AVG | REPORT DAILY MX | | | THREE/WEEK | COMP24 |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 10.7 | 12.7 | (03) | ******* | ******* | ******* | | 0 | Daily | Cont. |
| | PERMIT REQUIREMENT | REPORT MO AVG | REPORT DAILY MX | MGD | ****** | ****** | ******* | **** **** | | DAILY | CONTIN |
| CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | ******* | | | (19) | | 00/00* | |
| | PERMIT REQUIREMENT | ****** | ****** **** **** | | ****** | REPORT MO AVG | 0.05 DAILY MX | MG/L | 5 | TIM/GRAB /WEEK | |
| COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | ******* | 4.0 | 5.0 | (13) | 0 | See Foot-note** | Grab |
| | PERMIT REQUIREMENT | ****** | ****** **** **** | | ****** | 200 MO AVG | 400 #/ DAILY MX | 100ML | 5 | TIM/GRAB /WEEK | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Authorized Agent:
Peter B. Beronio
Environmental Engineer-Water
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.)*

Peter B Beronio
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3459

DATE: YEAR 95 | MO 11 | DAY 21

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

* chlorine testing required only when chlorinating this stream.

** due to a potential one-time discharge of sanitary waste to the WWTP on October 23, Outfall 001 was sampled for fecal coliform from October 24 thru October 26.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME AMOCO OIL COMPANY
ADDRESS 2815 INDIANAPOLIS BLVD
HAMMOND IN 46320
FACILITY
LOCATION
ATTN: MR. J.G. MACCACHE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

# DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: IN0000190

(17-19) DISCHARGE NUMBER: 002 A

E - FINAL
MAJOR

Form Approved. 12345
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 95 | 10 | 01 | TO | 95 | 10 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMPERATURE, WATER DEG. CENTIGRADE 00010 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | ******* | 32 | 35 | (00) DEG.C | 0 | 5X/ Week | Cont. |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | REPORT DAILY MX | | | 5 TIMES/WEEK | CONTIN |
| TEMPERATURE, WATER DEG. CENTIGRADE 00010 7 0 0 INTAKE FROM STREAM | SAMPLE MEASUREMENT | ******* | ******* | | ******* | 17 | 20 | (00) DEG.C | 0 | 5X/ Week | Cont. |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | REPORT DAILY MX | | | 5 TIMES/WEEK | CONTIN |
| WASTE HEAT REJECTION RATE 00179 2 0 0 EFFLUENT NET VALUE | SAMPLE MEASUREMENT | 1,140 | 1,270 | (75) | ******* | ******* | ******* | | 0 | 5X/ Week | Cont. |
| | PERMIT REQUIREMENT | 1700 MO AVG | 2000 MX DA AV | MBTU/HR | ******* | ******* | ******* | ***** | | 5 TIMES/WEEK | CONTIN |
| PH 00400 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | 7.9 | ******* | 8.3 | (12) SU | 0 | 3X/ Week | Grab |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | 7 MINIMUM | ******* | 9 MAXIMUM | | | THREE/WEEK | GRAB |
| OIL & GREASE (FREON EXTR.-IR METH) TOT, RC 00560 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ******* | ******* | | ******* | 0.9 | 1.8 | (19) MG/L | 0 | 3X/ Week | Grab |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | 5.0 DAILY MX | | | THREE/WEEK | GRAB |
| OIL & GREASE (FREON EXTR.-IR METH) TOT, RC 00560 2 0 0 EFFLUENT NET VALUE | SAMPLE MEASUREMENT | ******* | ******* | | ******* | 0.6 | 1.4 | (19) MG/L | 0 | 3X/ Week | Grab |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | 5.0 DAILY MX | | | THREE/WEEK | GRAB |
| OIL & GREASE (FREON EXTR.-IR METH) TOT, RC 00560 7 0 0 INTAKE FROM STREAM | SAMPLE MEASUREMENT | ******* | ******* | | ******* | <0.3 | 0.5 | (19) MG/L | 0 | 3X/ Week | Grab |
| | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | REPORT DAILY MX | | | THREE/WEEK | GRAB |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|
| Authorized Agent: Peter B. Beronio Environmental Engineer-Water | 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.)* | Peter B Beronio | 219 | 473-3459 | 95 | 11 | 21 |
| TYPED OR PRINTED | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA CODE | NUMBER | YEAR | MO | DAY |

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. MACCACHE

# DISCHARGE MONITORING REPORT (DMR)

| (2-16) | (17-19) |
|---|---|
| 1100001001 | 002 A |
| PERMIT NUMBER | DISCHARGE NUMBER |

F - FINAL
MAJOR

Form Approved. 12385
OMB No. 2040-0004
Approval expires 10-31-94

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 95 | 10 | 21 | TO | 95 | 10 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CARBON, TOT ORGANIC (TOC) 00680 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | | ****** | 2.0 | 3.0 | ( 19) | 0 | 5X/ Week | Grab |
| | PERMIT REQUIREMENT | ****** | ****** | ***** | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | TIMEGRAB /WEEK | |
| CARBON, TOT ORGANIC ( ) 00680 2 0 0 EFFLUENT NET VALUE | SAMPLE MEASUREMENT | ****** | ****** | | ****** | 0.0 | 1.0 | ( 19) | 0 | 5X/ Week | Grab |
| | PERMIT REQUIREMENT | ****** | ****** | ***** | ****** | REPORT MO AVG | 5.0 DAILY MX | MG/L | | 5 TIMEGRAB /WEEK | |
| CARBON, TOT ORGANIC (TOC) 00680 7 0 0 INTAKE FROM STREAM | SAMPLE MEASUREMENT | ****** | ****** | | ****** | 2.0 | 2.0 | ( 19) | 0 | 5X/ Week | Grab |
| | PERMIT REQUIREMENT | ****** | ****** | ***** | ****** | REPORT MO AVG | REPORT DAILY MX | MG/L | | 5 TIMEGRAB /WEEK | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 125.7 | 129.0 | ( 03) | ****** | ****** | ****** | | 0 | Daily | Cont. |
| | PERMIT REQUIREMENT | REPORT MO AVG | REPORT DAILY MX | MGD | ****** | ****** | ****** | ***** | | DAILY CONTIN | |
| CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | | ****** | <0.04 | < 0.04 | ( 19) | 0 | 1X/ Week | Grab |
| | PERMIT REQUIREMENT | ****** | ****** | ***** | ****** | REPORT MO AVG | 0.05 DAILY MX | MG/L | | WEEKLYGRAB | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Authorized Agent:
Peter B. Beronio
Environmental Engineer-Water

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.)*

Peter B Beronio

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| TELEPHONE | | DATE | | |
|---|---|---|---|---|
| 219 | 473-3459 | 95 | 11 | 21 |
| AREA CODE | NUMBER | YEAR | MO | DAY |

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. MACCACHE

# DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: IN0000183
(17-19) DISCHARGE NUMBER: 003 A

F - FINAL
MAJOR

Form Approved. 12345
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

| FROM YEAR | MO | DAY | TO YEAR | MO | DAY |
|---|---|---|---|---|---|
| 95 | 10 | 01 | 95 | 10 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PH | SAMPLE MEASUREMENT | ******* | ******* | | No Discharge | ******* | No Discharge | ( 12) | 0 | * | |
| 00400 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ******* | ******* | ***** | 6 MINIMUM | ******* | 9 MAXIMUM | SU | | WEEKLY | GRAB |
| O & GREASE-(FREON EXTR.-IR METH) TOT, RC | SAMPLE MEASUREMENT | ******* | ******* | | ******* | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00560 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ******* | ******* | ***** | ******* | REPORT MO AVG | 15.0 DAILY MX | MG/L | | WEEKLY | GRAB |
| CARBON, TOT ORGANIC (TOC) | SAMPLE MEASUREMENT | ******* | ******* | | ******* | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00680 1 0 0 EFFLUENT 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 | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Authorized Agent:
Peter B. Beronio
Environmental Engineer-Water
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.)*

Peter B Beronio
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 219 | NUMBER 473-3459

DATE: YEAR 95 | MO 11 | DAY 21

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

* Outfall 003 was closed the entire month of October.

Facility Name/Location if different)
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) |
|---|---|
| [illegible] | 004 A |
| PERMIT NUMBER | DISCHARGE NUMBER |

F - FINAL
MAJOR

Form Approved. 12345
OMB No. 2040-0004
Approval expires 10-31-94

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 95 | 10 | 01 | TO | 95 | 10 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PH | SAMPLE MEASUREMENT | ****** | ****** | | No Discharge | ****** | No Discharge | ( 12) | 0 | * | |
| 00400 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ****** | ****** | ****** | 5 MINIMUM | ****** | 9 MAXIMUM | SU | | WEEKLY | GRAB |
| OIL & GREASE (FREON TR.-IR METH) TOT,RC | SAMPLE MEASUREMENT | ****** | ****** | | ****** | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00560 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ****** | ****** | ****** | ****** | REPORT MO AVG | 15.0 DAILY MX | MG/L | | ONCE/ MONTH | GRAB |
| CARBON, TOT ORGANIC (TOC) | SAMPLE MEASUREMENT | ****** | ****** | | ****** | No Discharge | No Discharge | ( 19) | 0 | * | |
| 00680 1 0 0 EFFLUENT 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 | | | | | | | | | | |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|---|
| Authorized Agent: Peter B. Beronio Environmental Engineer-Water | 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.)* | Peter B Beronio | 219 | 473-3459 | 95 | 11 | 21 |
| TYPED OR PRINTED | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA CODE | NUMBER | YEAR | MO | DAY |

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

* Outfall 004 was closed the entire month of October.

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 10/95 OCTOBER 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 | 10.2 | -- | 1.6 | 136 | 11 | 935 | -- | -- | -- | -- | <0.01 | 0.00 |
| | 2 | 10.5 | 7.4 | 1.8 | 157 | 14 | 1225 | -- | -- | 0.9 | 79 | -- | -- |
| | 3 | 10.6 | -- | 1.6 | 141 | 9 | 795 | 47 | 4150 | 0.9 | 79 | <0.01 | 0.00 |
| | 4 | 11.6 | 7.5 | 1.9 | 184 | 10 | 966 | -- | -- | 2.0 | 193 | -- | -- |
| | 5 | 11.6 | -- | 1.6 | 155 | 10 | 966 | -- | -- | 0.7 | 68 | <0.01 | 0.00 |
| | 6 | 11.8 | 7.7 | -- | -- | -- | -- | 39 | 3833 | 0.7 | 69 | -- | -- |
| | 7 | 11.2 | -- | -- | -- | -- | -- | 63 | 5878 | -- | -- | -- | -- |
| | 8 | 12.3 | -- | 4.6 | 471 | 10 | 1025 | -- | -- | -- | -- | <0.01 | 0.00 |
| | 9 | 10.6 | 7.6 | 3.0 | 265 | 10 | 883 | -- | -- | 2.4 | 212 | -- | -- |
| | 10 | 10.1 | -- | 1.2 | 101 | 6 | 505 | 42 | 3534 | 0.8 | 67 | <0.01 | 0.00 |
| | 11 | 10.0 | 7.7 | 1.3 | 108 | 6 | 500 | -- | -- | 0.8 | 67 | -- | -- |
| | 12 | 10.4 | -- | 2.0 | 173 | 9 | 780 | -- | -- | 1.0 | 87 | <0.01 | 0.00 |
| | 13 | 10.1 | 7.7 | -- | -- | -- | -- | 47 | 3954 | 0.4 | 34 | -- | -- |
| | 14 | 10.5 | -- | -- | -- | -- | -- | 45 | 3936 | -- | -- | -- | -- |
| | 15 | 10.1 | -- | 1.3 | 109 | 12 | 1010 | -- | -- | -- | -- | <0.01 | 0.00 |
| | 16 | 9.9 | 7.7 | 1.4 | 115 | 19 | 1567 | -- | -- | 0.9 | 74 | -- | -- |
| | 17 | 10.4 | -- | 1.1 | 95 | 6 | 520 | 45 | 3898 | 0.8 | 69 | <0.01 | 0.00 |
| | 18 | 12.0 | 7.6 | 1.3 | 130 | 6 | 600 | -- | -- | 0.8 | 80 | -- | -- |
| | 19 | 11.9 | -- | 1.3 | 129 | 6 | 595 | -- | -- | 0.7 | 69 | 0.01 | 1.00 |
| | 20 | 12.7 | 7.7 | -- | -- | -- | -- | 46 | 4866 | 0.5 | 53 | -- | -- |
| | 21 | 10.7 | -- | -- | -- | -- | -- | 54 | 4813 | -- | -- | -- | -- |
| | 22 | 10.7 | -- | 2.1 | 187 | 8 | 713 | -- | -- | -- | -- | <0.01 | 0.00 |
| | 23 | 10.7 | 7.5 | 2.8 | 250 | 10 | 891 | -- | -- | 1.1 | 98 | -- | -- |
| | 24 | 11.5 | -- | 2.5 | 239 | 6 | 575 | 51 | 4886 | 0.8 | 77 | <0.01 | 0.00 |
| | 25 | 10.7 | 7.5 | 1.8 | 160 | 11 | 980 | -- | -- | 0.5 | 45 | -- | -- |
| | 26 | 9.7 | -- | 1.2 | 97 | 6 | 485 | -- | -- | 1.1 | 89 | <0.01 | 0.00 |
| | 27 | 9.8 | 7.6 | -- | -- | -- | -- | 46 | 3755 | 1.1 | 90 | -- | -- |
| | 28 | 9.3 | -- | -- | -- | -- | -- | 64 | 4958 | -- | -- | -- | -- |
| | 29 | 9.0 | -- | 2.5 | 187 | 8 | 600 | -- | -- | -- | -- | <0.01 | 0.00 |
| | 30 | 10.7 | 7.5 | 3.4 | 303 | 8 | 713 | -- | -- | 1.1 | 98 | -- | -- |
| * | 31 | 10.9 | -- | 3.1 | 281 | 8 | 726 | 55 | 4994 | 0.7 | 64 | <0.01 | 0.00 |
| AVERAGE | | 10.7 | 7.6 | 2.0 | 181 | 9 | 807 | 50 | 4420 | 0.9 | 85 | <0.01 | 0.07 |
| HIGHEST VAL. | | 12.7 | 7.7 | 4.6 | 471 | 19 | 1567 | 64 | 5878 | 2.4 | 212 | 0.01 | 1.00 |
| LOWEST VAL. | | 9.0 | 7.4 | 1.1 | 95 | 6 | 485 | 39 | 3534 | 0.4 | 34 | <0.01 | 0.00 |
| OVER LIMIT | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

CERTIFIED OPERATOR : George T Cook NO. 5404 DATE : Nov 21, 1995 AUTHORIZED AGENT : Peter B Bermo

--MEANS NOT TESTED THIS DATE.

* See attachment.

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 001 10/95 OCTOBER 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 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 2 | 0.15 | 13 | 0.03 | 3.0 | -- | -- | -- | -- | | | | | |
| | 3 | 0.15 | 13 | -- | -- | -- | -- | -- | -- | | | | | |
| | 4 | 0.20 | 19 | -- | -- | (0.01 | (1.0 | 0.001 | 0.1 | | | | | |
| | 5 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| | 6 | 0.55 | 54 | -- | -- | -- | -- | -- | -- | | | | | |
| | 7 | 6.00 | 560 | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 8 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 9 | 0.21 | 19 | 0.04 | 4.0 | -- | -- | -- | -- | | | | | |
| | 10 | 0.12 | 10 | -- | -- | -- | -- | -- | -- | | | | | |
| | 11 | 0.11 | 9 | -- | -- | (0.01 | (0.8 | 0.001 | 0.1 | | | | | |
| | 12 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| | 13 | 0.20 | 17 | -- | -- | -- | -- | -- | -- | | | | | |
| | 14 | 0.30 | 26 | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 15 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 16 | 0.20 | 16 | 0.02 | 2.0 | -- | -- | -- | -- | | | | | |
| | 17 | 0.10 | 9 | -- | -- | -- | -- | -- | -- | | | | | |
| | 18 | 0.11 | 11 | -- | -- | (0.01 | (1.0 | 0.001 | 0.1 | | | | | |
| | 19 | -- | -- | -- | -- | -- | -- | -- | -- | | | | | |
| | 20 | 0.15 | 16 | -- | -- | -- | -- | -- | -- | | | | | |
| | 21 | 0.10 | 9 | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 22 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 23 | 0.17 | 15 | 0.02 | 2.0 | -- | -- | -- | -- | | | | | |
| | 24 | 0.19 | 18 | -- | -- | -- | -- | -- | -- | | | 2*** | | |
| | 25 | (0.10 | (9 | -- | -- | (0.01 | (0.9 | 0.001 | 0.1 | | | 4*** | | |
| | 26 | -- | -- | -- | -- | -- | -- | -- | -- | | | 5*** | | |
| | 27 | 0.30 | 24 | -- | -- | -- | -- | -- | -- | | | | | |
| | 28 | 0.18 | 14 | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 29 | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | | |
| | 30 | 0.35 | 31 | 0.02 | 2.0 | -- | -- | -- | -- | | | | | |
| | 31 | 0.20 | 18 | -- | -- | -- | -- | -- | -- | | | | | |
| AVERAGE | | 0.46 | 42 | 0.03 | 2.6 | (0.01 | (0.9 | 0.001 | 0.1 | | | 0 | | |
| HIGHEST VAL. | | 6.00 | 560 | 0.04 | 4.0 | (0.01 | (1.0 | 0.001 | 0.1 | | | | | |
| LOWEST VAL. | | (0.10 | (9 | 0.02 | 2.0 | (0.01 | (0.8 | 0.001 | 0.1 | | | | | |
| OVER LIMIT | | | 0 | | 0 | | 0 | | 0 | | | 0 | | |

CERTIFIED OPERATOR : George Wood NO. 5404 DATE : Nov 21, 1995 AUTHORIZED AGENT : Peter B Burnes

--Means Not Tested this Date. **Fecal Coliform are limited from April 1 to Oct. 31, when Refinery Sanitary Sewers are discharging to AMOCO WWTP

*** Due to a potential one-time discharge of sanitary waste to the WWTP on October 23, Outfall 001 was sampled for fecal coliform from October 24 thru October 26.

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

{WLSTAT}

PERMIT NO. IN0000108 OUTFALL 002 10/95 OCTOBER COOLING WATER EFFLUENT

| PARAMETER CODE / SAMPLE TYPE | FLOW 50050 | pH 00400 | IN-TOC C9968Ø | OUT-TOC C00680 | DELTA TOC | IN-TEMP | TEMP 00010 | HEAT C99003 | RESID-CL | IN-OIL | OIL 00550 | DELTA OIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 123.2 | -- | -- | -- | -- | 18 | 33 | 1.15 | -- | -- | -- | -- |
| 2 | 126.9 | 8.1 | 2 | 2 | Ø | 18 | 34 | 1.27 | -- | (Ø.3 | Ø.9 | Ø.6 |
| 3 | 128.6 | -- | 2 | 2 | Ø | 20 | 35 | 1.21 | -- | -- | -- | -- |
| 4 | 128.5 | 8.1 | 2 | 3 | 1 | 20 | 35 | 1.20 | (Ø.Ø4 | Ø.3 | 1.4 | 1.1 |
| 5 | 127.4 | -- | 2 | 2 | Ø | 19 | 35 | 1.27 | -- | -- | -- | -- |
| 6 | 127.7 | 7.9 | 2 | 2 | Ø | 18 | 33 | 1.20 | -- | (Ø.3 | (Ø.3 | -Ø.1 |
| 7 | 128.1 | -- | -- | -- | -- | 19 | 34 | 1.20 | -- | -- | -- | -- |
| 8 | 128.7 | -- | -- | -- | -- | 18 | 33 | 1.21 | -- | -- | -- | -- |
| 9 | 129.Ø | 8.1 | 2 | 2 | Ø | 18 | 33 | 1.21 | -- | Ø.5 | Ø.9 | Ø.4 |
| 1Ø | 129.Ø | -- | 2 | 2 | Ø | 18 | 33 | 1.21 | -- | -- | -- | -- |
| 11 | 128.4 | 8.1 | 2 | 2 | Ø | 18 | 33 | 1.20 | (Ø.Ø4 | (Ø.3 | Ø.4 | Ø.1 |
| 12 | 126.3 | -- | 2 | 2 | Ø | 19 | 33 | 1.1Ø | -- | -- | -- | -- |
| 13 | 124.9 | 8.Ø | 2 | 2 | Ø | 19 | 34 | 1.17 | -- | (Ø.3 | Ø.4 | Ø.1 |
| 14 | 125.9 | -- | -- | -- | -- | 19 | 34 | 1.18 | -- | -- | -- | -- |
| 15 | 126.2 | -- | -- | -- | -- | 18 | 31 | 1.Ø2 | -- | -- | -- | -- |
| 16 | 123.9 | 8.2 | 2 | 2 | Ø | 17 | 3Ø | 1.Ø1 | -- | (Ø.3 | Ø.5 | Ø.2 |
| 17 | 128.3 | -- | 2 | 2 | Ø | 17 | 3Ø | 1.Ø4 | -- | -- | -- | -- |
| 18 | 127.9 | 8.2 | 2 | 2 | Ø | 17 | 31 | 1.12 | (Ø.Ø4 | (Ø.3 | Ø.6 | Ø.3 |
| 19 | 126.6 | -- | 2 | 2 | Ø | 17 | 32 | 1.19 | -- | -- | -- | -- |
| 2Ø | 124.6 | 8.2 | 2 | 2 | Ø | 18 | 31 | 1.Ø1 | -- | (Ø.3 | 1.1 | Ø.8 |
| 21 | 124.3 | -- | -- | -- | -- | 17 | 3Ø | 1.Ø1 | -- | -- | -- | -- |
| 22 | 124.7 | -- | -- | -- | -- | 16 | 3Ø | 1.Ø9 | -- | -- | -- | -- |
| 23 | 124.8 | 8.1 | 2 | 2 | Ø | 17 | 31 | 1.Ø9 | -- | (Ø.3 | 1.3 | 1.Ø |
| 24 | 123.8 | -- | 2 | 2 | Ø | 16 | 3Ø | 1.Ø8 | -- | -- | -- | -- |
| 25 | 123.4 | 8.3 | 2 | 2 | Ø | 16 | 3Ø | 1.Ø8 | (Ø.Ø4 | (Ø.3 | 1.2 | Ø.9 |
| 26 | 123.3 | -- | 2 | 2 | Ø | 16 | 3Ø | 1.Ø8 | -- | -- | -- | -- |
| 27 | 123.1 | 8.3 | 2 | 2 | Ø | 15 | 3Ø | 1.15 | -- | Ø.4 | 1.8 | 1.4 |
| 28 | 122.9 | -- | -- | -- | -- | 15 | 3Ø | 1.15 | -- | -- | -- | -- |
| 29 | 122.3 | -- | -- | -- | -- | 15 | 29 | 1.Ø7 | -- | -- | -- | -- |
| 3Ø | 122.2 | 8.1 | 2 | 3 | 1 | 14 | 29 | 1.15 | -- | Ø.3 | 1.2 | Ø.9 |
| 31 | 122.Ø | -- | 2 | 2 | Ø | 15 | 29 | 1.Ø7 | <Ø.Ø4 | -- | -- | -- |
| AVERAGE | 125.7 | 8.1 | 2 | 2 | Ø | 17 | 32 | 1.14 | (Ø.Ø4 | (Ø.3 | Ø.9 | Ø.6 |
| HIGHEST VAL. | 129.Ø | 8.3 | 2 | 3 | 1 | 2Ø | 35 | 1.27 | <Ø.Ø4 | Ø.5 | 1.8 | 1.4 |
| LOWEST VAL. | 122.Ø | 7.9 | 2 | 2 | Ø | 14 | 29 | 1.Ø1 | (Ø.Ø4 | (Ø.3 | (Ø.3 | -Ø.1 |
| OVER LIMIT | | Ø | | | Ø | | | Ø | Ø | | | Ø |

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : Nov 21 1995 AUTHORIZED AGENT : Peter B Bennis

--MEANS NOT TESTED THIS DATE

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

{WLSTAT}

PERMIT NO. IN0000108 10/95 OCTOBER STORM WATER RUNOFF

- - - - O U T F A L L 0 0 3 - - - -

*** 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 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| AVERAGE | | | |
| HIGHEST VAL. | | | |
| LOWEST VAL. | | | |
| OVER LIMIT | 0 | 0 | 0 |

CERTIFIED OPERATOR : George Cook NO. 5404 DATE : Nov 21 1995 AUTHORIZED AGENT : Peter B Bermis

Outfall 003 was closed the entire month of October.

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

{WLSTAT}

PERMIT NO. IN0000108 10/95 OCTOBER 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 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
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| 25 | | | |
| 26 | | | |
| 27 | | | |
| 28 | | | |
| 29 | | | |
| 30 | | | |
| 31 | | | |
| AVERAGE | | | |
| HIGHEST VAL. | | | |
| LOWEST VAL. | | | |
| OVER LIMIT | 0 | 0 | 0 |

CERTIFIED OPERATOR : George J Cook NO. 5404 DATE : Nov 21 1995 AUTHORIZED AGENT : Peter B Bercaw

Outfall 004 was closed the entire month of October.

**Attachment**

On October 31 the automatic sample compositor for Outfall 001 was not active for a period of approximately five hours - sample was not collected during this time period. The compositor is a relatively new system, started-up on October 28. It requires manual resetting every 24 hours, which the old system did not. Some confusion had arisen as to when the system had to be reset, which led to the delay.

According to our records for that day, no unusual operations occured in the wastewater treatment plant, and all other operational parameters were normal, as represented by the data shown in the Water Quality Report for October 31.

Since this episode, personnel have been refreshed in operating the new compositor. Also, additional equipment has been ordered from Isco so that manual resetting will not be required in the future.

File "Hold" RLP

# IDEM

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

## NPDES Compliance Inspection Report

100 North Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206 - 6015

**Section A: National Data System Coding**

| Transaction Code | NPDES | yr/mo/day | Inspection Type | Inspector | Fac Type |
|---|---|---|---|---|---|
| 1 | IN0000108 | 950907 | R | 5 | 2 |

Remarks

21 Reserved | Facility Evaluation Rating | BI | QA | Reserved | 66
67–69 | 70 | 71 | 72 | 73–74 | 75–80

**Section B: Facility Data**

| Name and Location of Facility Inspected | Entry Time / Permit Effective Date |
|---|---|
| Amoco Oil Refinery - Barge Dock Area SIC 5171<br>2815 Indianapolis Boulevard<br>Whiting, IN 46394 - | Entry Time AM (PM) 1400<br>Receiving Waters / POTW: IN Harbor Canal<br>Permit Expiration Date |

| Name(s) of On-Site Representatives | Title(s) | Phone No(s) |
|---|---|---|
| Shiv Baloo | Water Team Leader | (219) 473-3740 |

| Name, Address of Responsible Official | Title / Phone No. / Contacted |
|---|---|
| Julie Murphy | Title: Manager, Environmental Control Div.<br>Phone No.: (219) 473-3377<br>Contacted: ☐ Yes ☒ NO |

**Section C: Areas Evaluated During Inspection**
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Permit | | Flow Measurement | | Pretreatment | | Operations & Maintenance |
| | Records/Reports | | Laboratory | | Compliance Schedules | | Sludge Disposal |
| | Facility Site Review | | Effluent/Receiving Waters | | Self-Monitoring Program | | Other: |

**Section D: Summary of Findings/Comments (attach additional sheets if necessary)**

Today's inspection was conducted to observe potential stormwater discharge points into the canal from Amoco's dock area for barges

- Identified numerous pipes and openings in the dock sheet piling wall - Amoco verified these openings and plans to seal off any unused openings / pipes (Remaining pipes will be needed for emergency fire fighting water intake)
- Identified recent spills of petroleum-type material around lube oil pump manifold, sump leading to BT1 and BT2 storage tanks, and pumps in front of BT1. (Spill containment areas will be installed - constructed of cement)
- Spill containment planned installation Oct - Nov 1995
- Sheet piling repair / sealing Sept through Oct 1995
- Request site plan for barge dock area, and map showing intake / discharge points in dock area and J&L property

| Name(s) and Signature(s) of Inspector(s) | Agency/Office/Telephone | Date |
|---|---|---|
| Mark Balazs | IDEM - OWM | 09-07-95 |
| Mark Balazs | (219) 881-6712 | |

| Signature of Reviewer | Agency/Office/Telephone | Date |
|---|---|---|
| RLPearson | IDEM | 10/5/95 |

**Regulatory Office Use Only**

| Action Taken | Date | Compliance Status |
|---|---|---|
| | | ☐ Non compliance<br>☐ Compliance |

EPA Form 3560-3 (Rev. 3-85) Previous editions are obsolete.

Photo #1 - Amoco barge dock area

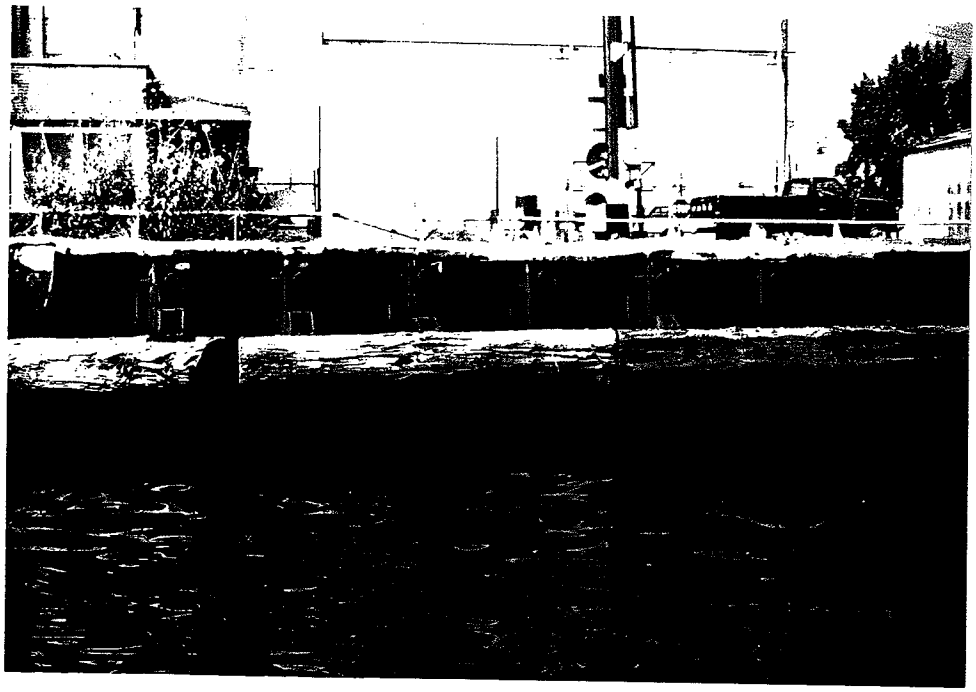
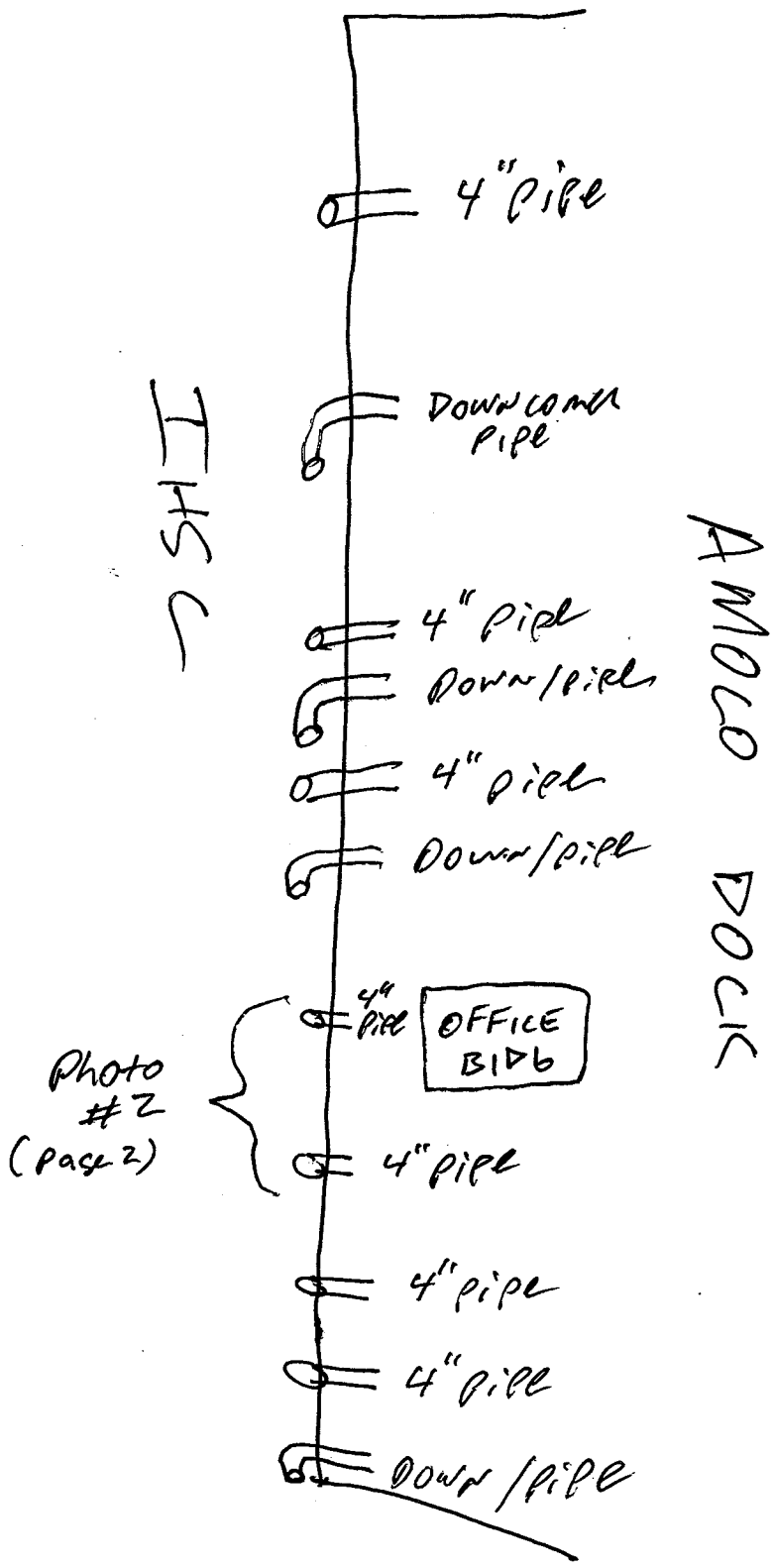


Photo #2 - two 4" pipes (one below wood under building window, one above wood under telephone pole)




* THESE pipes were Indentified by IDEM BOAT surviellance on 8-18-95 by Michael Kress. See attached photographs.

* There were also numerous seep holes identified.

## DESCRIPTION OF DOCK FACE

There are thirteen pipes that protrude from the dock face. A few of these pipes take in water from the Canal for use in case of a fire emergency. All the other pipes are plugged and do not discharge any material to the Canal. The following is a description of all the pipes starting from the east side (berth 1) and moving west (berth 3):

1. Downspout pipe by berth 1. The dock has the ability to take in water from the Canal through this pipe to supplement fire water supplied from the refinery in case of a fire emergency.

2. Pipe from drinking water sump. This pipe is plugged and the drinking water sump is being filled in.

3. Pipe from drinking water sump. This pipe is plugged and the drinking water sump is filled in.

4. Pipe in front of control room. This pipe is plugged.

5. Pipe from drinking water sump. This pipe is plugged and the drinking water sump is filled in.

6. Downspout in front of control room. This pipe is plugged. It used to be connected to an instrument used to measure water level in the Canal.

7. Downspout in front of tank BT1. This pipe can be used to take in water from the Canal to supplement regular fire water in case of a fire emergency.

8. Pipe from drinking water sump. This pipe is plugged and the drinking water sump is filled in.

9. Downspout near tank BT1. This pipe is plugged. The dock used to have the ability to take in Canal water to prime a pump.

10. Pipe from drinking water sump. This pipe is plugged and the drinking water sump is filled in.

11. Downspout in front of wellpoint building. The pipe is plugged. Before the docks were connected to the refinery fire water system, this pipe used to take in water from the Canal to supply the dedicated dock fire water system.