bp

BP Products North America Inc.
2815 Indianapolis Blvd.
P.O. Box 710
Whiting, IN 46394-0710
USA

August 25, 2011

CERTIFIED MAIL#
RETURN RECEIPT REQUESTED

Indiana Department of Environmental Management
OWQ Data Management Section (Mail Code 65-42)
100 North Senate Avenue
Indianapolis, IN 46204-2251

Re: DMR and MMR for Outfalls 002, 003, 004, & 005
NPDES Permit No. 0000108

Please find enclosed the effluent quality data in Discharge Monitoring Report (DMR) forms and Monthly Monitoring Report (MMR) forms from the BP Products North America Inc. - Whiting Business Unit ("Whiting Refinery") for the month of July 2011.

The Whiting Refinery recently learned that some sanitary sewage of insignificant amount may have reached the process sewer inadvertently from an old abandoned cross connection to the process sewers. Fecal samplings were conducted at the potential impacted Outfall 005 during this time period. The results were at or below the reporting limit of 10 colonies per 100 mL. The cross connection was permanently sealed after discovery.

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.

If you have any questions or need any additional information, please contact Tim Chen at (219) 473-1286.

Sincerely,

N. D. S

Nick Spencer
Business Unit Leader
Whiting Business Unit

Cc: N. Ream, Merrillville, IN

Attachments: DMR Report
MMR Report

bcc: R.L. Garibay, ENVIRON Arlington, VA
J.P. Morrison, Mail Code 201
D. Moye, Mail Code 220
D.J. Olen, Mail Code 220
M.F. Osadjan, Warrenville, IL

PERMITTEE NAME/ADDRES

NAME BP PRODUCTS NORTH AMERICA INC.

ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC

LOCATION WHITING IN

ATTN: ~~DANIEL SAIKOWSKI~~ Nick Spencer, PLT MANAGER

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

Revised: ☐

IN0000108	002 A
PERMIT NUMBER	PERMITTED FEATURE

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	07/01/11			TO	07/31/11		

Form Approved
OMB No. 2040-004
Approval Expires 05-31-98

IN0000108002A72011

For any questions call Gary Starks at 317-232-8694

*** Mark box if NO DISCHARGE ☐ ***

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING Average	Maximum	Units	QUALITY OR CONCENTRATION Minimum	Average	Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******		******	99.9	104.0	deg F		Five Per Week	CONTIN
00011 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX		0	Five Per Week	CONTIN
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******		******	70.7	75.2	deg F		Five Per Week	CONTIN
00011 7 0 0 Intake from Stream	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX		0	Five Per Week	CONTIN
Waste heat rejection rate	SAMPLE MEASUREMENT	762	914	MBTU /hr	******	******	******			Five Per Week	CONTIN
00179 2 0 0 Effluent Net	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV						0	Five Per Week	CONTIN
pH	SAMPLE MEASUREMENT	******	******		7.8	******	8.2	SU		Three Per Week	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Three Per Week	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	<0.3	<0.3	mg/L		Monthly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	5 DAILY MX		0	Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	75.1	80.5	Mgal/d	******	******	******			Contin	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ
Chlorine, total residual	SAMPLE MEASUREMENT	0	0	lb/d	******	0	0	mg/L		Weekly	GRAB
50060 1 0 0 Effluent Gross	PERMIT REQUIREMENT	20 MO AVG	60 DAILY MX			.06 MO AVG	.06 DAILY MX		0	Weekly	GRAB

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
Nick Spencer Business Unit Leader		219 473-3179			
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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

INDUSTRIAL MAJOR WHITING, LAKE COUNTY

PERMITTEE NAME/ADDRES

NAME BP PRODUCTS NORTH AMERICA INC.

ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC

LOCATION WHITING IN

ATTN: ~~DANIEL SAIKOWSKI,~~ Nick Spencer PLT MANAGER

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

Form Approved
OMB No. 2040-004
Approval Expires 05-31-98

IN0000108002A72011

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Revised: ☐

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*** Mark box if NO DISCHARGE ☐ ***

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	******	2326.9	Mgal/mo	******	******	******			Monthly	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report						0	Monthly	RCOTOT
			MO TOTAL								

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INDUSTRIAL MAJOR WHITING, LAKE COUNTY

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ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC
LOCATION WHITING IN
ATTN: Nick Spencer ~~DANIEL SAIKOWSKI~~, PLT MANAGER

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

Form Approved
OMB No. 2040-004
Approval Expires 05-31-98

Revised: ☐

PERMIT NUMBER	PERMITTED FEATURE
IN0000108	003 A

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	07	01	11	TO	07	31	11

IN0000108003A72011

For any questions call Gary Starks at 317-232-8694

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NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING Average	Maximum	Units	QUALITY OR CONCENTRATION Minimum	Average	Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
pH	SAMPLE MEASUREMENT	******	******		7.2	******	7.9	SU		Weekly	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	<0.3*	0.3*	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX		0	Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	20	28	mg/L		Weekly	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX		0	Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.127	0.840	Mgal/d	******	******	******			Daily	ESTIMATE**
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

* Means "Not Quantifiable".
** Flows were estimated this month due to error readings in the flow meter.

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Nick Spencer Business Unit Leader	N. Spencer	219 473-3179			
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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

INDUSTRIAL MAJOR WHITING, LAKE COUNTY

PERMITTEE NAME/ADDRES

NAME BP PRODUCTS NORTH AMERICA INC.

ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC

LOCATION WHITING IN

ATTN: ~~DANIEL SAIKOWSKI~~ Nick Spencer, PLT MANAGER

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

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pH	SAMPLE MEASUREMENT	******	******		7.4	******	8.1	SU		Weekly	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	<0.4*	0.5*	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX		0	Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	24	33	mg/L		Weekly	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX		0	Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.202	1.486	Mgal/d	******	******	******			Daily	ESTIMATE**
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

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Nick Spencer Business Unit Leader	N. Spencer	219 473-3179			
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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2815 INDIANAPOLIS BLVD
WHITING IN 46394

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LOCATION WHITING IN
ATTN: ~~DANIEL SAJKOWSKI~~ Nick Spencer, PLT MANAGER

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

Revised: ☐

IN0000108	005 A
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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	341	473	lb/d	******	2.5	3.5	mg/L		Weekly	COMP 24
00310 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******		6.8	******	7.5	SU		Three Per Week	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX		0	Three Per Week	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	850	1176	lb/d	******	6.2	8.2	mg/L		Two Per Week	COMP 24
00530 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4925 MO AVG	7723 DAILY MX			Report MO AVG	Report DAILY MX		0	Twice Every Week	COMP24
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	99	149	lb/d	******	0.7*	1.1	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	<19	23	lb/d	******	<0.14	0.17	mg/L		Five Per Week	COMP 24
00610 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1584 MO AVG	3572 DAILY MX			Report MO AVG	Report DAILY MX		0	Five Per Week	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	42	73	lb/d	******	0.30	0.49	mg/L		Weekly	COMP 24
00665 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	1 DAILY MX		0	Weekly	COMP24
Sulfide, total (as S)	SAMPLE MEASUREMENT	3.7	5.2	lb/d	******	0.03	0.04	mg/L		Weekly	COMP 24
00745 1 0 0 Effluent Gross	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24

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INDUSTRIAL MAJOR LAKE COUNTY

EPA FORM 3320-1(03-99) Revised by Indiana (June 2007) (Replaces EPA FORM T-40 WHICH MAY NOT BE USED - Mail Forms To IDEM (No Photo Co

* Means "Not Quantifiable".

PERMITTEE NAME/ADDRES

NAME BP PRODUCTS NORTH AMERICA INC.

ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC

LOCATION WHITING IN

ATTN: ~~DANIEL SAJKOWSKI~~ Nick Spencer, PLT MANAGER

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

Revised: ☐

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PARAMETER		QUANTITY OR LOADING Average	Maximum	Units	QUALITY OR CONCENTRATION Minimum	Average	Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
Chromium, total (as Cr) 01034 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<1.4	<1.4	lb/d	******	<0.01	<0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Vanadium, total recoverable 01128 1 0 1 Effluent Gross	SAMPLE MEASUREMENT	161	285	lb/d	******	1.2	2.1	mg/L	0	Monthly	COMP 24
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	Report DAILY MX			Monthly	COMP24
Chromium, hexavalent dissolved (as Cr) 01220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<0.7	<0.7	lb/d	******	<0.005	<0.005	mg/L	0	Weekly	GRAB
	PERMIT REQUIREMENT	2.01 MO AVG	4.48 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	GRAB
Phenolics, total recoverable 32730 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	<1.36	<1.43	lb/d	******	<0.01	<0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	20.33 MO AVG	73.01 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	16.4	19.1	Mgal/d	******	******	******		0	CONTIN	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Chemical Oxygen Demand (COD) 81017 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	5507	7477	lb/d	******	40	55	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Flow, total 82220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	509.5	Mgal/mo	******	******	******		0	Monthly	RCOTOT
	PERMIT REQUIREMENT		Report MO TOTAL							Monthly	RCOTOT

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Nick Spencer Business Unit Leader	N. Spencer	219 473-3179			
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

INDUSTRIAL MAJOR LAKE COUNTY

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 002 Jul-11 JULY COOLING WATER EFFLUENT

PARAMETER	FLOW	IN-TEMP	OUT-TEMP	HEAT	pH	OUT-OIL	IN-TOC	OUT-TOC	DELTA-TOC	RESID-CL		IN-TEMP	OUT-TEMP
CODE	50050	00011	00011	00179	00400	00552	00680	00680	00680	50060		00011	00011
SAMPLE TYPE													
PERMIT	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB		CONT	CONT
ACTUAL	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB		CONT	CONT
FREQUENCY													
PERMIT	CONT	5/7	5/7	5/7	3/7	1/MO	1/YR	1/YR	1/YR	1/7		5/7	5/7
ACTUAL	CONT	CONT	CONT	CONT	3/7	1/MO	1/YR	1/YR	1/YR	1/7		CONT	CONT
LIMITS: AVG.				1.70							20		
MAX.				2.00	6.0-9.0				5	.06	60		
DATE	MG/D	DEG C	DEG C	GBTU/HR	SU	mg/l	mg/l	mg/l	mg/l	mg/l	LB/D	DEG F	DEG F
1	71.2	16	33	0.756	8.0	--------	--------	--------	--------	--------	--------	60.8	91.4
2	71.2	16	33	0.756	--------	--------	--------	--------	--------	--------	--------	60.8	91.4
3	71.4	18	34	0.714	--------	--------	--------	--------	--------	--------	--------	64.4	93.2
4	72.5	18	34	0.725	8.0	--------	--------	--------	--------	--------	--------	64.4	93.2
5	73.2	18	34	0.732	--------	--------	--------	--------	--------	--------	--------	64.4	93.2
6	72.1	21	36	0.676	8.1	--------	--------	--------	--------	--------	--------	69.8	96.8
7	72.7	21	36	0.681	--------	--------	--------	--------	--------	0	0	69.8	96.8
8	67.7	22	38	0.677	8.1	--------	--------	--------	--------	--------	--------	71.6	100.4
9	68.2	21	38	0.724	--------	--------	--------	--------	--------	--------	--------	69.8	100.4
10	77.0	20	37	0.818	--------	--------	--------	--------	--------	--------	--------	68.0	98.6
11	70.7	21	38	0.751	8.1	--------	--------	--------	--------	--------	--------	69.8	100.4
12	72.4	21	38	0.769	--------	--------	--------	--------	--------	--------	--------	69.8	100.4
13	76.4	22	38	0.764	8.1	<0.3	--------	--------	--------	--------	--------	71.6	100.4
14	79.5	23	39	0.795	--------	--------	--------	--------	--------	--------	--------	73.4	102.2
15	76.0	23	39	0.760	8.1	--------	--------	--------	--------	0	0	73.4	102.2
16	71.6	22	38	0.716	--------	--------	--------	--------	--------	--------	--------	71.6	100.4
17	76.7	23	38	0.719	--------	--------	--------	--------	--------	--------	--------	73.4	100.4
18	73.5	24	40	0.735	7.8	--------	--------	--------	--------	--------	--------	75.2	104.0
19	76.9	24	40	0.769	--------	--------	--------	--------	--------	--------	--------	75.2	104.0
20	77.3	23	39	0.773	8.1	--------	--------	--------	--------	0	0	73.4	102.2
21	78.4	23	39	0.784	--------	--------	--------	--------	--------	--------	--------	73.4	102.2
22	77.7	23	40	0.825	8.2	--------	--------	--------	--------	--------	--------	73.4	104.0
23	77.0	23	39	0.770	--------	--------	--------	--------	--------	--------	--------	73.4	102.2
24	76.5	24	40	0.765	--------	--------	--------	--------	--------	--------	--------	75.2	104.0
25	78.5	24	40	0.785	8.1	--------	--------	--------	--------	--------	--------	75.2	104.0
26	78.7	24	40	0.787	--------	--------	--------	--------	--------	--------	--------	75.2	104.0
27	75.9	21	38	0.806	8.1	--------	--------	--------	--------	--------	--------	69.8	100.4
28	77.0	19	38	0.914	--------	--------	--------	--------	--------	0	0	66.2	100.4
29	80.5	23	39	0.805	8.1	--------	--------	--------	--------	--------	--------	73.4	102.2
30	79.3	23	39	0.793	--------	--------	--------	--------	--------	--------	--------	73.4	102.2
31	79.2	22	38	0.792	--------	--------	--------	--------	--------	--------	--------	71.6	100.4
AVERAGE	75.1	21	38	0.762	8.1	<0.3	--------	--------	--------	0	0	70.7	99.9
HIGHEST VAL	80.5	24	40	0.914	8.2	<0.3	--------	--------	--------	0	0	75.2	104.0
LOWEST VAL.	67.7	16	33	0.676	7.8	<0.3	--------	--------	--------	0	0	60.8	91.4
OVER LIMIT	0	0	0	0	0	0				0	0	0	0
TOTAL	2326.9												

CERTIFIED OPERATOR : David J. Olen NO. 14118 DATE : 8-17-11 AUTHORIZED AGENT :

--MEANS NOT TESTED THIS DATE

Exp. 6/30/2012
Tel. 219-473-5298

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 Jul-11 JULY STORM WATER RUNOFF

- - - -OUTFALL 003- - - -

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

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	
DATE		SU	mg/l	mg/l	MG/D
	1	--------	--------	--------	0.840
	2	--------	--------	--------	0.259
	3	--------	--------	--------	0.000
	4	7.3	<0.3	13	0.065
	5	--------	--------	--------	0.000
	6	--------	--------	--------	0.000
	7	--------	--------	--------	0.000
	8	--------	--------	--------	0.000
	9	--------	--------	--------	0.000
	10	--------	--------	--------	0.000
	11	7.3	<0.3	28	0.259
	12	--------	--------	--------	0.129
	13	--------	--------	--------	0.000
	14	--------	--------	--------	0.000
	15	--------	--------	--------	0.000
	16	--------	--------	--------	0.000
	17	--------	--------	--------	0.000
	18	7.9	<0.3	28	0.129
	19	--------	--------	--------	0.065
	20	--------	--------	--------	0.000
	21	--------	--------	--------	0.000
	22	--------	--------	--------	0.711
	23	--------	--------	--------	0.259
	24	--------	--------	--------	0.000
	25	7.2	0.3*	13	0.323
	26	--------	--------	--------	0.000
	27	--------	--------	--------	0.323
	28	--------	--------	--------	0.452
	29	--------	--------	--------	0.129
	30	--------	--------	--------	0.000
	31	--------	--------	--------	0.000
AVERAGE		7.4	<0.3*	20	0.127
HIGHEST VAL.		7.9	0.3*	28	0.840
LOWEST VAL.		7.2	<0.3	13	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : David J. Olen NO. 14118 DATE : 8-17-11 AUTHORIZED AGENT : N. D.

--MEANS NOT TESTED THIS DATE Exp. 6/30/2012

* MEANS NOT QUANTIFIABLE Tel. 219-473-5298

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO. IN0000108 Jul-11 JULY STORM WATER RUNOFF

----OUTFALL 004----

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

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	
DATE		SU	mg/l	mg/l	MG/D
	1	--------	--------	--------	1.486
	2	--------	--------	--------	0.000
	3	--------	--------	--------	0.000
	4	7.7	<0.3	17	0.517
	5	--------	--------	--------	0.000
	6	--------	--------	--------	0.065
	7	--------	--------	--------	0.000
	8	--------	--------	--------	0.000
	9	--------	--------	--------	0.000
	10	--------	--------	--------	0.000
	11	8.1	0.5*	33	0.388
	12	--------	--------	--------	0.129
	13	--------	--------	--------	0.065
	14	--------	--------	--------	0.000
	15	--------	--------	--------	0.000
	16	--------	--------	--------	0.000
	17	--------	--------	--------	0.000
	18	7.7	0.5*	27	0.194
	19	--------	--------	--------	0.129
	20	--------	--------	--------	0.000
	21	--------	--------	--------	0.000
	22	--------	--------	--------	1.034
	23	--------	--------	--------	0.000
	24	--------	--------	--------	0.000
	25	7.4	<0.3	18	0.905
	26	--------	--------	--------	0.000
	27	--------	--------	--------	0.517
	28	--------	--------	--------	0.646
	29	--------	--------	--------	0.194
	30	--------	--------	--------	0.000
	31	--------	--------	--------	0.000
AVERAGE		7.7	<0.4*	24	0.202
HIGHEST VAL.		8.1	0.5*	33	1.486
LOWEST VAL.		7.4	<0.3	17	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : David J. Olen NO. 14118 DATE : 8-17-11 AUTHORIZED AGENT :

--MEANS NOT TESTED THIS DATE Exp. 6/30/2012

* MEANS NOT QUANTIFIABLE Tel. 219-473-5298

N. D.

BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 005 Jul-11 JULY PROCESS WATER EFFLUENT

PARAMETER		FLOW	BOD	COD	pH	TSS	OIL	NH3-N	SULFIDE
CODE		50050	00310	81017	00400	00530	00552	00610	00745
SAMPLE TYPE									
	PERMIT	CONT	24	24	GRAB	24	GRAB	24	24
	ACTUAL	CONT	24	24	GRAB	24	GRAB	24	24
FREQUENCY									
	PERMIT	CONT	1/7	1/7	3/7	2/7	1/7	5/7	1/7
	ACTUAL	CONT	1/7	1/7	3/7	2/7	1/7	5/7	1/7

LIMITS:	AVG			4161		30323			4925		1368		1584		23.1
	MAX			8164		58427	6.0-9.0		7723		2600		3572		51.4
DATE		MG/D	mg/l	LB/D	mg/l	LB/D	SU	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D
1		18.0	--------	--------	--------	--------	7.3	--------	--------	--------	--------	--------	--------	--------	--------
2		17.1	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
3		16.8	--------	--------	--------	--------	--------	--------	--------	--------	--------	0.16	22	--------	--------
4		15.2	--------	--------	--------	--------	7.3	3.6	456	--------	--------	0.15	19	0.02	2.5
5		15.2	--------	--------	25	3169	--------	--------	--------	--------	--------	0.14	18	--------	--------
6		14.7	1.9	233	--------	--------	7.3	--------	--------	0.3*	37	0.12	15	--------	--------
7		16.9	--------	--------	--------	--------	--------	7.6	1071	--------	--------	0.16	23	--------	--------
8		16.1	--------	--------	--------	--------	7.2	--------	--------	--------	--------	--------	--------	--------	--------
9		14.8	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
10		16.3	--------	--------	--------	--------	--------	--------	--------	--------	--------	0.16	22	--------	--------
11		17.2	--------	--------	--------	--------	7.0	8.2	1176	--------	--------	0.16	23	0.03	4.3
12		16.3	--------	--------	55	7477	--------	--------	--------	--------	--------	0.14	19	--------	--------
13		16.2	3.5	473	--------	--------	6.8	--------	--------	1.1	149	0.14	19	--------	--------
14		15.7	--------	--------	--------	--------	--------	7.4	969	--------	--------	0.13	17	--------	--------
15		15.7	--------	--------	--------	--------	7.2	--------	--------	--------	--------	--------	--------	--------	--------
16		16.1	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
17		16.1	--------	--------	--------	--------	--------	--------	--------	--------	--------	0.14	19	--------	--------
18		15.6	--------	--------	--------	--------	7.4	7.6	989	--------	--------	0.17	22	0.04	5.2
19		16.8	--------	--------	39	5464	--------	--------	--------	--------	--------	0.14	20	--------	--------
20		16.7	2.4	334	--------	--------	7.3	--------	--------	0.8	111	<0.10	<14	--------	--------
21		16.1	--------	--------	--------	--------	--------	4.4	591	--------	--------	<0.10	<13	--------	--------
22		16.4	--------	--------	--------	--------	7.5	--------	--------	--------	--------	--------	--------	--------	--------
23		19.1	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
24		18.4	--------	--------	--------	--------	--------	--------	--------	--------	--------	<0.10	<15	--------	--------
25		17.0	--------	--------	--------	--------	7.3	4.2	595	--------	--------	0.16	23	0.02	2.8
26		17.3	--------	--------	41	5916	--------	--------	--------	--------	--------	0.16	23	--------	--------
27		16.9	2.3	324	--------	--------	7.3	--------	--------	0.7	99	0.12	17	--------	--------
28		17.9	--------	--------	--------	--------	--------	6.4	955	--------	--------	0.14	21	--------	--------
29		16.2	--------	--------	--------	--------	7.4	--------	--------	--------	--------	--------	--------	--------	--------
30		15.2	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
31		15.5	--------	--------	--------	--------	--------	--------	--------	--------	--------	0.17	22	--------	--------
AVERAGE		16.4	2.5	341	40	5507	7.3	6.2	850	0.7*	99	<0.14	<19	0.03	3.7
HIGHEST VAL.		19.1	3.5	473	55	7477	7.5	8.2	1176	1.1	149	0.17	23	0.04	5.2
LOWEST VAL.		14.7	1.9	233	25	3169	6.8	3.6	456	0.3*	37	<0.10	<13	0.02	2.5
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		509.50													

CERTIFIED CERTIFIED OPERATOR : David J. Olen NO. 14118 DATE : 8-17-11 AUTHORIZED AGENT :
--MEANS N--MEANS NOT TESTED THIS DATE Exp. 6/30/2012
* MEANS NOT QUANTIFIABLE Tel. 219-473-5298

N. D. [illegible]

BP PRODUCTS NORTH AMERICA, Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 005 Jul-11 JULY PROCESS WATER EFFLUENT

PARAMETER	HX. CHRM	TL.CHRM	PHENOL	VANADIUM	ORTHO-P	MERCURY
CODE	01220	01034/01118	32730	01128	00665	71901
SAMPLE TYPE						
PERMIT	GRAB	24	24	24	24	GRAB
ACTUAL	GRAB	24	24	24	24	GRAB
FREQUENCY						
PERMIT	1/7	1/7	1/7	1/MO	1/7	6/YR
ACTUAL	1/7	1/7	1/7	1/MO	1/7	6/YR

LIMITS:	HX. CHRM		TL.CHRM		PHENOL		VANADIUM		ORTHO-P		MERCURY	
AVG.		2.01		23.90		20.33						
MAX.		4.48		68.53		73.01			1			
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	ng/L	LB/D
1	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
2	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
3	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
4	--------	--------	--------	--------	<0.01	<1.27	--------	--------	--------	--------	--------	--------
5	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
6	<0.005	<0.6	<0.01	<1.2	--------	--------	--------	--------	--------	--------	--------	--------
7	--------	--------	--------	--------	--------	--------	--------	--------	0.08	11	--------	--------
8	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
9	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
10	--------	--------	--------	--------	--------	--------	2.1	285	--------	--------	--------	--------
11	--------	--------	--------	--------	<0.01	<1.43	--------	--------	--------	--------	--------	--------
12	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
13	<0.005	<0.7	<0.01	<1.4	--------	--------	--------	--------	--------	--------	--------	--------
14	--------	--------	--------	--------	--------	--------	--------	--------	0.37	48	--------	--------
15	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
16	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
17	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
18	--------	--------	--------	--------	<0.01	<1.30	--------	--------	--------	--------	--------	--------
19	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
20	<0.005	<0.7	<0.01	<1.4	--------	--------	--------	--------	--------	--------	--------	--------
21	--------	--------	--------	--------	--------	--------	--------	--------	0.27	36	--------	--------
22	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
23	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
24	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
25	--------	--------	--------	--------	<0.01	<1.42	--------	--------	--------	--------	--------	--------
26	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
27	<0.005	<0.7	<0.01	<1.4	--------	--------	--------	--------	--------	--------	--------	--------
28	--------	--------	--------	--------	--------	--------	--------	--------	0.49	73	--------	--------
29	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
30	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
31	--------	--------	--------	--------	--------	--------	0.28	36.2	--------	--------	--------	--------
AVERAGE	<0.005	<0.7	<0.01	<1.4	<0.01	<1.36	1.2	161	0.30	42	--------	--------
HIGHEST VAL.	<0.005	<0.7	<0.01	<1.4	<0.01	<1.43	2.1	285	0.49	73	--------	--------
LOWEST VAL.	<0.005	<0.6	<0.01	<1.2	<0.01	<1.27	0.28	36.2	0.08	11	--------	--------
OVER LIMIT		0	0	0	0	0	0	0	0	0		

CERTIFIED OPERATOR : David J. Olen NO. 14118 DATE : 8-17-11 AUTHORIZED AGENT : N. Oh

--MEANS NOT TESTED THIS DATE

Exp. 6/30/2012

Tel. 219-473-5298