bp

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

May 23, 2013

DELIVERED VIA 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 the Discharge Monitoring Report (DMR) form and the Monthly Monitoring Report (MMR) form from the BP Products North America Inc. - Whiting Business Unit ("Whiting Refinery") for the month of April 2013.

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.

Nick Spencer
Business Unit Leader
Whiting Business Unit

Cc: N. Ream, Merrillville, IN

Attachments: DMR Report
MMR Report

Bcc (scanned reports delivered via email)

R.L. RIchards, ENVIRON Arlington, VA, rrichards@environcorp.com
J.P. Morrison
R. Solan
Orok Duke
D. Moye
B.L. Cook
M.F. Osadjan, Warrenville, IL

Bcc (e-MMR delivered via email)

Jackie Backus, ENVIRON, jbackus@environcorp.com
Kerry Mierau, ENVIRON, kmierau@environcorp.com

e-MMR file path: I:\Environmental\Plant Docs\4 - Water\4G\4G01\DMR\2013\4-April 2013\WQR0413.xls

PERMITTEE NAME/ADDRESS

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, PLT MANAGER

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

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

* I N 0 0 0 0 1 0 8 0 0 2 A 8 2 0 1 2 *

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

Revised: ☐

PERMIT NUMBER	PERMITTED FEATURE
IN0000108	002 A

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	04/01/2013			TO	04/30/2013		

*** 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 00011 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	72.1	77.0	deg F	0	DAILY	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX			Five Per Week	CONTIN
Temperature, water deg. fahrenheit 00011 7 0 0 Intake from Stream	SAMPLE MEASUREMENT	******	******		******	45.1	50.0	deg F	0	DAILY	CONTIN
	PERMIT REQUIREMENT					Report MO AVG	Report DAILY MX			Five Per Week	CONTIN
Waste heat rejection rate 00179 2 0 0 Effluent Net	SAMPLE MEASUREMENT	509	617	MBTU /hr	******	******	******		0	DAILY	CONTIN
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV							Five Per Week	CONTIN
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		7.6	******	8.4	SU	0	3/WEEK	GRAB
	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Three Per Week	GRAB
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	<0.3	<0.3	mg/L	0	MONTHLY	GRAB
	PERMIT REQUIREMENT					Report MO AVG	5 DAILY MX			Monthly	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	54.2	55.0	MGD	******	******	******		0	DAILY	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Chlorine, total residual 50060 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0	0	lb/d	******	0	0	mg/L	0	WEEKLY	GRAB
	PERMIT REQUIREMENT	20 MO AVG	60 DAILY MX			.06 MO AVG	.06 DAILY MX			Weekly	GRAB

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
Nick Spencer, Business Unit Leader	N.D.	219 473-5298	5	28	13
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

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IN0000108002A82012

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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	******	1624.6	Mgal/mo	******	******	******		0	MONTHLY	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report							Monthly	RCOTOT
			MO TOTAL								

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH	SAMPLE MEASUREMENT	******	******		7.3	******	7.6	SU	0	WEEKLY	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	<0.4*	0.9	mg/L	0	WEEKLY	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	19	28	mg/L	0	WEEKLY	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX			Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.255	4.132	MGD	******	******	******		0	DAILY	Totalz & Est.**
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

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Nick Spencer, Business Unit Leader	N. D.	219 473-5298	5	28	13
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

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 Copies)

* Not Quantifiable
** Significant rain on April 17 & 18 resulted in overflow conditions at the Outfall. The US Army Corp of Engineer stormwater run off model (HEC-HMS) was used to calculate flow from this event.

PERMITTEE NAME/ADDRESS

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2815 INDIANAPOLIS BLVD
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FACILITY BP PRODUCTS NORTH AMERICA INC
LOCATION WHITING IN
ATTN: DANIEL SAJKOWSKI, PLT MANAGER

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

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

Revised: ☐

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IN0000108	004 A

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
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IN0000108004A82012

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			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH	SAMPLE MEASUREMENT	******	******		7.8	******	9.0	SU	0	WEEKLY	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******	<0.3	0.3*	mg/L	0	WEEKLY	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	16	24	mg/L	0	WEEKLY	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	110 DAILY MX			Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.425	6.457	MGD	******	******	******		0	DAILY	Totalz & Est.**
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

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INDUSTRIAL MAJOR WHITING, LAKE COUNTY

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* Not Quantifiable
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Revised: ☐

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IN0000108	005 A

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	04/01/2013			TO	04/30/2013		

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	67	89	lb/d	******	0.6	0.7	mg/L	0	6/MONTH	COMP24
00310 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4161 MO AVG	8164 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******		7.5	******	8.0	SU	0	3/WEEK	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Three Per Week	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	<256	1461	lb/d	******	<1.5	5.8	mg/L	0	2/WEEK	COMP24
00530 1 0 0 Effluent Gross	PERMIT REQUIREMENT	4925 MO AVG	7723 DAILY MX			Report MO AVG	Report DAILY MX			Twice Every Week	COMP24
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	67	93	lb/d	******	0.6*	0.8	mg/L	0	WEEKLY	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1368 MO AVG	2600 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	<12	<25	lb/d	******	<0.10	<0.10	mg/L	0	5/WEEK	COMP24
00610 1 0 0 Effluent Gross	PERMIT REQUIREMENT	1584 MO AVG	3572 DAILY MX			Report MO AVG	Report DAILY MX			Five Per Week	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	25	57	lb/d	******	0.19	0.45	mg/L	0	WEEKLY	COMP24
00665 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	1 DAILY MX			Weekly	COMP24
Sulfide, total (as S)	SAMPLE MEASUREMENT	1.7	2.5	lb/d	******	0.01	0.02	mg/L	0	WEEKLY	COMP24
00745 1 0 0 Effluent Gross	PERMIT REQUIREMENT	23.1 MO AVG	51.4 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24

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NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
Nick Spencer, Business Unit Leader	N. P.	219 473-5298	5	28	13
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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

INDUSTRIAL MAJOR LAKE COUNTY

* Not Quantifiable

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ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
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FACILITY BP PRODUCTS NORTH AMERICA INC
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PARAMETER		QUANTITY OR LOADING Average	QUANTITY OR LOADING Maximum	Units	QUALITY OR CONCENTRATION Minimum	QUALITY OR CONCENTRATION Average	QUALITY OR CONCENTRATION Maximum	Units	NO. EX	Frequency of Analysis	Sample Type
Chromium, total (as Cr)	SAMPLE MEASUREMENT	<1.2	<1.3	lb/d	******	<0.01	<0.01	mg/L	0	6/MONTH	COMP24
01034 1 0 0 Effluent Gross	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24
Vanadium, total recoverable	SAMPLE MEASUREMENT	3.6	5.1	lb/d	******	0.029	0.040	mg/L	0	3/MONTH	COMP24
01128 1 0 0 Effluent Gross	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX			.28 MO AVG	.56 DAILY MX			Monthly	COMP24
Chromium, hexavalent dissolved (as Cr)	SAMPLE MEASUREMENT	<0.6	<0.7	lb/d	******	<0.005	<0.005	mg/L	0	6/MONTH	GRAB
01220 1 0 0 Effluent Gross	PERMIT REQUIREMENT	2.01 MO AVG	4.48 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	GRAB
Phenolics, total recoverable	SAMPLE MEASUREMENT	<1.16	<1.27	lb/d	******	<0.01	<0.01	mg/L	0	7/MONTH	COMP24
32730 1 0 0 Effluent Gross	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	SAMPLE MEASUREMENT	14.6	30.2	MGD	******	******	******		0	DAILY	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Mercury, total recoverable	SAMPLE MEASUREMENT	******	******		******	<2.52	0.925*	ng/L	0	2/MONTH	GRAB
71901 1 0 1 Effluent Gross	PERMIT REQUIREMENT					23.1 ANNL AVG	Report DAILY MX			Six Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	3198	4203	lb/d	******	27	36	mg/L	0	7/MONTH	7/MONTH
81017 1 0 0 Effluent Gross	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24

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INDUSTRIAL MAJOR LAKE COUNTY

*Mercury sampling occurred on 3 additional days; however, results were NOT reported because the field blanks failed the established QA/QC protocol.

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	******	393.3	Mgal/mo	******	******	******		0	MONTHLY	RCTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report							Monthly	RCOTOT
			MO TOTAL								

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INDUSTRIAL MAJOR LAKE COUNTY

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

PERMIT NO IN0000108 OUTFALL 002 Apr-13 APR 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	54.5	5	22	0.579	7.8	-------	-------	-------	-------	-------	-------	41.0	71.6
2	54.9	4	22	0.617	-------	-------	-------	-------	-------	-------	-------	39.2	71.6
3	53.6	5	22	0.569	8.1	-------	-------	-------	-------	-------	-------	41.0	71.6
4	52.9	5	22	0.562	-------	-------	-------	-------	-------	0	0	41.0	71.6
5	53.1	5	21	0.531	7.6	-------	-------	-------	-------	-------	-------	41.0	69.8
6	54.1	6	21	0.507	-------	-------	-------	-------	-------	-------	-------	42.8	69.8
7	53.7	6	21	0.503	-------	-------	-------	-------	-------	-------	-------	42.8	69.8
8	53.8	6	21	0.504	7.9	-------	-------	-------	-------	-------	-------	42.8	69.8
9	54.1	7	21	0.473	-------	-------	-------	-------	-------	-------	-------	44.6	69.8
10	53.9	7	21	0.471	7.7	<0.3	-------	-------	-------	-------	-------	44.6	69.8
11	54.3	7	21	0.475	-------	-------	-------	-------	-------	0	0	44.6	69.8
12	53.8	7	21	0.471	7.8	-------	-------	-------	-------	-------	-------	44.6	69.8
13	54.6	6	21	0.512	-------	-------	-------	-------	-------	-------	-------	42.8	69.8
14	54.6	7	22	0.512	-------	-------	-------	-------	-------	-------	-------	44.6	71.6
15	53.9	8	23	0.505	8.2	-------	-------	-------	-------	-------	-------	46.4	73.4
16	53.7	8	23	0.503	-------	-------	-------	-------	-------	-------	-------	46.4	73.4
17	54.4	8	23	0.510	8.1	-------	-------	-------	-------	-------	-------	46.4	73.4
18	54.7	8	23	0.513	-------	-------	-------	-------	-------	-------	-------	46.4	73.4
19	55.0	8	23	0.515	7.7	-------	-------	-------	-------	0	0	46.4	73.4
20	54.7	8	22	0.478	-------	-------	-------	-------	-------	-------	-------	46.4	71.6
21	54.8	8	22	0.479	-------	-------	-------	-------	-------	-------	-------	46.4	71.6
22	54.1	8	22	0.473	8.2	-------	-------	-------	-------	-------	-------	46.4	71.6
23	54.2	8	22	0.474	-------	-------	-------	-------	-------	-------	-------	46.4	71.6
24	54.1	8	23	0.507	8.0	-------	-------	-------	-------	-------	-------	46.4	73.4
25	53.8	8	23	0.504	-------	-------	-------	-------	-------	0	0	46.4	73.4
26	54.2	8	23	0.508	7.9	-------	-------	-------	-------	-------	-------	46.4	73.4
27	54.5	9	24	0.511	-------	-------	-------	-------	-------	-------	-------	48.2	75.2
28	54.2	10	24	0.474	-------	-------	-------	-------	-------	-------	-------	50.0	75.2
29	54.7	10	25	0.513	8.4	-------	-------	-------	-------	-------	-------	50.0	77.0
30	53.7	10	25	0.503	-------	-------	-------	-------	-------	-------	-------	50.0	77.0
AVERAGE	54.2	7	22	0.509	7.9	<0.3	-------	-------	-------	0	0	45.1	72.1
HIGHEST VAL.	55.0	10	25	0.617	8.4	<0.3	-------	-------	-------	0	0	50.0	77.0
LOWEST VAL.	52.9	4	21	0.471	7.6	<0.3	-------	-------	-------	0	0	39.2	69.8
OVER LIMIT	0	0	0	0	0	0				0	0	0	0
TOTAL	1624.6												

CERTIFIED OPERATOR : Barry Z. Cook 5/21/13 NO. 14407
--MEANS NOT TESTED THIS DATE Exp. 6/30/2013
* Note: Not Quantifiable Tel. 219-473-5298

DATE : 5/28/13

AUTHORIZED AGENT : N. R.

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

PERMIT NO. IN0000108 Apr-13 APR 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	7.5	<0.3	17	0.107
	2	———	———	———	0.072
	3	———	———	———	0.042
	4	———	———	———	0.031
	5	———	———	———	0.024
	6	———	———	———	0.037
	7	———	———	———	0.000
	8	7.6	0.4*	28	0.081
	9	———	———	———	0.022
	10	———	———	———	0.034
	11	———	———	———	0.322
	12	———	———	———	0.374
	13	———	———	———	0.175
	14	———	———	———	0.000
	15	7.4	0.9	20	0.175
	16	———	———	———	0.420
	17	———	———	———	0.226
	18	———	———	———	1.291**
	19	———	———	———	4.132**
	20	———	———	———	0.020
	21	———	———	———	0.005
	22	7.4	<0.3	10	0.007
	23	———	———	———	0.006
	24	———	———	———	0.009
	25	———	———	———	0.001
	26	———	———	———	0.011
	27	———	———	———	0.005
	28	———	———	———	0.004
	29	7.3	<0.3	17	0.000
	30	———	———	———	0.012
AVERAGE		7.4	<0.4*	19	0.255
HIGHEST VAL.		7.6	0.9	28	4.132
LOWEST VAL.		7.3	<0.3	10	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : Barry L. Cook 5/21/13 NO. 14407 DATE : 5/28/13 AUTHORIZED AGENT : N. Q.
--MEANS NOT TESTED THIS DATE Exp. 6/30/2013
* Note: Not Quantifiable Tel. 219-473-5298
** Significant rain on April 17 & 18 resulted in overflow conditions at the Outfall. The US Army Corp of Engineer stormwater run off model (HEC-HMS) was used to calculate flow from this event.

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

PERMIT NO. IN0000108 Apr-13 APR 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	9.0	<0.3	24	0.001
	2	———	———	———	0.000
	3	———	———	———	0.000
	4	———	———	———	0.000
	5	———	———	———	0.000
	6	———	———	———	0.092
	7	———	———	———	0.000
	8	———	———	———	0.000
	9	———	———	———	0.000
	10	———	———	———	0.000
	11	8.2	0.3*	17	0.223
	12	———	———	———	0.385
	13	———	———	———	0.246
	14	———	———	———	0.000
	15	8.4	0.3*	17	0.201
	16	———	———	———	0.292
	17	———	———	———	0.195
	18	———	———	———	2.195**
	19	———	———	———	6.457**
	20	———	———	———	0.348
	21	———	———	———	0.342
	22	7.8	<0.3	7	0.341
	23	———	———	———	0.340
	24	———	———	———	0.255
	25	———	———	———	0.343
	26	———	———	———	0.329
	27	———	———	———	0.133
	28	———	———	———	0.000
	29	———	———	———	0.031
	30	———	———	———	0.000
AVERAGE		8.4	<0.3	16	0.425
HIGHEST VAL.		9.0	0.3*	24	6.457
LOWEST VAL.		7.8	<0.3	7	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : Barry L. Cook 5/21/13 NO. 14407 DATE : 5/28/13 AUTHORIZED AGENT : N.P.

--MEANS NOT TESTED THIS DATE Exp. 6/30/2013

* Note: Not Quantifiable Tel. 219-473-5298

** Significant rain on April 17 & 18 resulted in overflow conditions at the Outfall. The US Army Corp of Engineer stormwater run off model (HEC-HMS) was used to calculate flow from this event.

PERMIT NO IN0000108 OUTFALL 005 Apr-13 APR 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	12.1	------	------	------	------	7.8	2.0	202	------	------	<0.10	<10	0.02	2.0
	2	12.7	------	------	27	2860	------	------	------	------	------	<0.10	<11	------	------
	3	12.5	0.4	42	------	------	7.8	------	------	0.7	73	<0.10	<10	------	------
	4	11.5	------	------	------	------	------	1.6	153	------	------	<0.10	<10	------	------
	5	12.5	------	------	------	------	7.7	------	------	------	------	------	------	------	------
	6	12.4	------	------	------	------	------	------	------	------	------	------	------	------	------
	7	13.1	------	------	------	------	------	------	------	------	------	<0.10	<11	------	------
	8	13.2	------	------	------	------	7.8	1.2	132	------	------	<0.10	<11	0.01	1.1
	9	13.5	------	------	25	2815	------	------	------	------	------	<0.10	<11	------	------
	10	13.9	0.5	58	------	------	7.6	------	------	0.3*	35	<0.10	<12	------	------
	11	17.5	------	------	------	------	------	1.0	146	------	------	<0.10	<15	------	------
	12	12.9	------	------	------	------	7.8	------	------	------	------	------	------	------	------
	13	13.3	------	------	------	------	------	------	------	------	------	------	------	------	------
	14	13.0	------	------	------	------	------	------	------	------	------	<0.10	<11	------	------
	15	13.5	------	------	------	------	8.0	1.0	113	------	------	<0.10	<11	0.01	1.1
	16	13.9	------	------	25	2898	------	------	------	------	------	<0.10	<12	------	------
	17	14.0	0.7	82	------	------	8.0	------	------	0.8	93	<0.10	<12	------	------
	18	30.2	------	------	------	------	------	5.8	1461	------	------	<0.10	<25	------	------
	19	17.9	------	------	------	------	7.5	------	------	------	------	------	------	------	------
	20	16.3	------	------	------	------	------	------	------	------	------	------	------	------	------
	21	14.0	0.7	82	36	4203	------	0.8	93	------	------	<0.10	<12	0.01	1.2
	22	14.6	------	------	------	------	7.9	------	------	0.4*	49	<0.10	<12	------	------
	23	15.2	0.7	89	27	3423	------	1.4	177	------	------	<0.10	<13	0.02	2.5
	24	17.5	------	------	------	------	7.9	------	------	0.5*	73	<0.10	<15	------	------
	25	15.2	0.4	51	22	2789	------	<1	<51	------	------	<0.10	<13	0.02	2.5
	26	13.9	------	------	------	------	7.8	------	------	0.7	81	------	------	------	------
	27	14.9	------	------	------	------	------	------	------	------	------	------	------	------	------
	28	13.3	------	------	------	------	------	------	------	------	------	<0.10	<11	------	------
	29	14.1	------	------	------	------	7.9	<1	<35	------	------	<0.10	<12	0.01	1.2
	30	15.1	------	------	27	3400	------	------	------	------	------	<0.10	<13	------	------
AVERAGE		14.6	0.6	67	27	3198	7.8	<1.5	<256	0.6*	67	<0.10	<12	0.01	1.7
HIGHEST VAL.		30.2	0.7	89	36	4203	8.0	5.8	1461	0.8	93	<0.10	<25	0.02	2.5
LOWEST VAL.		11.5	0.4	42	22	2789	7.5	<1	<35	0.3*	35	<0.10	<10	0.01	1.1
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		393.3													

CERTIFIED OPERATOR : Barry Cook 5/21/13 NO. 14407 DATE : 5/28/13 AUTHORIZED AGENT : N. D.

-- MEANS NOT TESTED THIS DATE Exp. 6/30/2013

* Note: Not Quantifiable Tel. 219-473-5298

PERMIT NO IN0000108 OUTFALL 005 Apr-13 APR 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:	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	—	—	—	—	<0.01	<1.01	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	<0.005	<0.5	<0.01	<1.0	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	0.23	22	—	—
5	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	<0.01	<1.10	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—
10	<0.005	<0.6	<0.01	<1.2	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	0.27	39	<0.500	<0.000073
12	—	—	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	<0.01	<1.13	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
17	<0.005	<0.6	<0.01	<1.2	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	0.05	13	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—
21	—	—	<0.01	<1.2	<0.01	<1.17	0.022	2.6	0.03	4	0.925	0.000108
22	<0.005	<0.6	—	—	—	—	—	—	—	—	—	—
23	—	—	<0.01	<1.3	<0.01	<1.27	0.040	5.1	0.45	57	—	—
24	<0.005	<0.7	—	—	—	—	—	—	—	—	—	—
25	—	—	<0.01	<1.3	<0.01	<1.27	0.024	3.0	0.12	15	—	—
26	<0.005	<0.6	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	<0.01	<1.18	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—
AVERAGE	<0.005	<0.6	<0.01	<1.2	<0.01	<1.16	0.029	3.6	0.19	25	<0.712	<0.000090
HIGHEST VAL.	<0.005	<0.7	<0.01	<1.3	<0.01	<1.27	0.040	5.1	0.45	57	0.925	0.000108
LOWEST VAL.	<0.005	<0.5	<0.01	<1.0	<0.01	<1.01	0.022	2.6	0.03	4	<0.500	<0.000073
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0

CERTIFIED OPERATOR : Barry L. Cook 5/21/13 NO. 14407 DATE : 5/28/13 AUTHORIZED AGENT : N.R.

-- MEANS NOT TESTED THIS DATE

Exp. 6/30/2013

Tel. 219-473-5298

NOTE: Mercury sampling occurred on 3 additional days; however, results were NOT reported because the field blanks failed the established QA/QC protocol.