bp

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

May 25, 2012

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 2012.

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 (delivered via email)

R.L. Garibay, ENVIRON Arlington, VA
J.P. Morrison
R. Solan
Orok Duke
D. Moye
B.L. Cook
M.F. Osadjan, Warrenville, IL

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)

Revised: ☐

PERMIT NUMBER	PERMITTED FEATURE
IN0000108	002 A

MONITORING PERIOD

	MO	DAY	YEAR		MO	DAY	YEAR
FROM	04/01/12			TO	04/30/12		

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

IN0000108002A42012

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 00011 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	84.7	87.8	deg F	0	Five Per Week	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	******	******		******	51.0	53.6	deg F	0	Five Per Week	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	820	921	MBTU /hr	******	******	******		0	Five Per Week	CONTIN
	PERMIT REQUIREMENT	1700 MO AVG	2000 MX DA AV							Five Per Week	CONTIN
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	******	******		7.0	******	8.1	SU	0	Three Per 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	70.1	77.6	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		219 473-3179			
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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

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)

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2815 INDIANAPOLIS BLVD
WHITING IN 46394

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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	******	2104.4	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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WHITING IN 46394

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LOCATION WHITING IN
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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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
pH	SAMPLE MEASUREMENT	******	******		7.3	******	7.9	SU		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	******	******		******	1.1	1.4	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	64	89	mg/L		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	0.000	0.003	MGD	******	******	******			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

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IN0000108004A4 2012

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pH	SAMPLE MEASUREMENT	******	******		7.3	******	8.2	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*	0.7	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	******	******		******	31	35	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	0.022**	0.517**	MGD	******	******	******			Daily	ESTIMATE** TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

* Means "Not Quantifiable".
** The reporting flow data in entire month was estimated by a storm water simulation model. The meter data cannot be used due to the configuration issue. The issue has been fixed.

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Nick Spencer Business Unit Leader	N.O.S.	219 4734 3179			
TYPED OR PRINTED	SIGNATURE	AREA CODE AND NO.	MO	DAY	YEAR

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INDUSTRIAL MAJOR WHITING, LAKE COUNTY

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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)

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IN0000108005A42012

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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
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	461	703	lb/d	******	3.6	5.4	mg/L		1-3 Week	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	******	******		7.2	******	7.4	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	1599	3325	lb/d	******	7.4	26.4	mg/L		2-4 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	98	149	lb/d	******	0.7*	1.1	mg/L		1-3 Week	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	<17	30	lb/d	******	<0.13	0.22	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	<1.70	2.74	lb/d	******	<0.01	0.02	mg/L		1-3 Week	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	1.9	2.7	lb/d	******	0.01	0.02	mg/L		1-3 Week	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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Nick Spencer Business Unit Leader	N. D. S	219 473-3179			
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INDUSTRIAL MAJOR LAKE COUNTY

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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	<1.3	<1.4	lb/d	******	<0.01	<0.01	mg/L	0	1-3 Week	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	2.1	2.3	lb/d	******	0.016	0.017	mg/L	0	Three Per Month	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	1-3 Week	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	<1.30	<1.37	lb/d	******	<0.01	<0.01	mg/L	0	1-3 Week	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	15.5	17.2	MGD	******	******	******		0	Daily	TOTALZ
	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ
Mercury, total recoverable 71901 1 0 1 Effluent Gross	SAMPLE MEASUREMENT	******	******		******	11.2	8.75	ng/L	0	Three Per Month	GRAB
	PERMIT REQUIREMENT					23.1 ANNL AVG	Report DAILY MX			Six Per Year	GRAB
Chemical Oxygen Demand (COD) 81017 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	5471	7416	lb/d	******	43	57	mg/L	0	1-3 Week	COMP 24
	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX			Report MO AVG	Report DAILY MX			Weekly	COMP24

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Nick Spencer Business Unit Leader	NiP	219 473-3179			
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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	******	466.1	Mgal/mo	******	******	******			Monthly	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report						0	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-12 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	62.8	10	29	0.745	—	—	—	—	—	—	—	50.0	84.2
2	65.1	11	30	0.773	7.9	—	—	—	—	—	—	51.8	86.0
3	65.8	11	30	0.781	—	—	—	—	—	—	—	51.8	86.0
4	66.3	10	29	0.787	8.0	—	—	—	—	—	—	50.0	84.2
5	67.9	10	28	0.764	—	—	—	—	—	0	0	50.0	82.4
6	68.5	10	29	0.813	8.1	—	—	—	—	—	—	50.0	84.2
7	69.0	10	29	0.819	—	—	—	—	—	—	—	50.0	84.2
8	68.6	10	30	0.857	—	—	—	—	—	—	—	50.0	86.0
9	68.6	10	29	0.814	7.7	—	—	—	—	—	—	50.0	84.2
10	67.9	9	28	0.806	—	—	—	—	—	—	—	48.2	82.4
11	68.6	10	29	0.814	7.7	<0.3	—	—	—	—	—	50.0	84.2
12	69.2	10	29	0.821	—	—	—	—	—	0	0	50.0	84.2
13	67.3	10	29	0.799	7.7	—	—	—	—	—	—	50.0	84.2
14	65.3	10	29	0.775	—	—	—	—	—	—	—	50.0	84.2
15	69.4	11	29	0.780	—	—	—	—	—	—	—	51.8	84.2
16	75.1	11	29	0.845	7.9	—	—	—	—	—	—	51.8	84.2
17	72.6	12	29	0.771	—	—	—	—	—	—	—	53.6	84.2
18	73.3	12	29	0.779	7.0	—	—	—	—	—	—	53.6	84.2
19	74.5	12	30	0.838	—	—	—	—	—	0	0	53.6	86.0
20	75.2	11	29	0.846	7.8	—	—	—	—	—	—	51.8	84.2
21	73.4	11	29	0.825	—	—	—	—	—	—	—	51.8	84.2
22	71.9	10	29	0.853	—	—	—	—	—	—	—	50.0	84.2
23	70.6	10	29	0.838	7.8	—	—	—	—	—	—	50.0	84.2
24	71.4	10	30	0.892	—	—	—	—	—	—	—	50.0	86.0
25	71.9	11	30	0.853	8.1	—	—	—	—	—	—	51.8	86.0
26	72.5	12	31	0.861	—	—	—	—	—	0	0	53.6	87.8
27	77.6	11	30	0.921	8.1	—	—	—	—	—	—	51.8	86.0
28	70.9	10	29	0.842	—	—	—	—	—	—	—	50.0	84.2
29	69.0	10	29	0.819	—	—	—	—	—	—	—	50.0	84.2
30	74.2	11	30	0.881	8.0	—	—	—	—	—	—	51.8	86.0
31	—	—	—		—	—	—	—	—	—	—	—	—
AVERAGE	70.1	11	29	0.820	7.8	<0.3	—	—	—	0	0	51.0	84.7
HIGHEST VAL.	77.6	12	31	0.921	8.1	<0.3	—	—	—	0	0	53.6	87.8
LOWEST VAL.	62.8	9	28	0.745	7.0	<0.3	—	—	—	0	0	48.2	82.4
OVER LIMIT	0	0	0	0	0	0				0	0	0	0
TOTAL	2104.4												

CERTIFIED OPERATOR : Benny Lark 5/22/2012 NO. 14407 Exp. 6/30/2013 Tel. 219-473-5298

--MEANS NOT TESTED THIS DATE

DATE :

AUTHORIZED AGENT : N R

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

PERMIT NO. IN0000108 Apr-12 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	———	———	———	0.000
	2	7.3	1.0	89	0.000
	3	———	———	———	0.000
	4	———	———	———	0.000
	5	———	———	———	0.000
	6	———	———	———	0.000
	7	———	———	———	0.000
	8	———	———	———	0.000
	9	———	———	———	0.000
	10	———	———	———	0.000
	11	7.7	0.9	55	0.000
	12	———	———	———	0.003
	13	———	———	———	0.000
	14	———	———	———	0.000
	15	———	———	———	0.000
	16	7.9	1.0	53	0.000
	17	———	———	———	0.000
	18	———	———	———	0.000
	19	———	———	———	0.000
	20	———	———	———	0.000
	21	———	———	———	0.000
	22	———	———	———	0.000
	23	7.7	1.4	60	0.000
	24	———	———	———	0.000
	25	———	———	———	0.000
	26	———	———	———	0.000
	27	———	———	———	0.000
	28	———	———	———	0.000
	29	———	———	———	0.000
	30	———	———	———	0.000
	31	———	———	———	———
AVERAGE		7.7	1.1	64	0.000
HIGHEST VAL.		7.9	1.4	89	0.003
LOWEST VAL.		7.3	0.9	53	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : Barry Z. Cook 5/22/2012 NO. 14407 DATE : AUTHORIZED AGENT : N. D.
--MEANS NOT TESTED THIS DATE
Exp. 6/30/2013
Tel. 219-473-5298

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

PERMIT NO. IN0000108 Apr-12 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	—	—	—	0.000
	2	7.3	0.7	26	0.000
	3	—	—	—	0.000
	4	—	—	—	0.000
	5	—	—	—	0.000
	6	—	—	—	0.000
	7	—	—	—	0.000
	8	—	—	—	0.000
	9	8.2	<0.3	35	0.000
	10	—	—	—	0.000
	11	—	—	—	0.000
	12	—	—	—	0.000
	13	—	—	—	0.000
	14	—	—	—	0.000
	15	—	—	—	0.000
	16	7.8	0.3*	29	0.517
	17	—	—	—	0.000
	18	—	—	—	0.000
	19	—	—	—	0.000
	20	—	—	—	0.000
	21	—	—	—	0.000
	22	—	—	—	0.000
	23	7.6	0.3*	35	0.129
	24	—	—	—	0.000
	25	—	—	—	0.000
	26	—	—	—	0.000
	27	—	—	—	0.000
	28	—	—	—	0.000
	29	—	—	—	0.000
	30	—	—	—	0.000
	31	—	—	—	—
AVERAGE		7.7	0.4*	31	0.022
HIGHEST VAL.		8.2	0.7	35	0.517
LOWEST VAL.		7.3	<0.3	26	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR : Barry I. Cook 5/22/2012 NO. 14407 DATE : AUTHORIZED AGENT : N. [illegible]

Exp. 6/30/2013

Tel. 219-473-5298

--MEANS NOT TESTED THIS DATE

* MEANS NOT QUANTIFIABLE

**The reporting flow data in entire month was estimated by a storm water simulation model. The data from the meter can't be used due to the configuration issue. The issue has been fixed.

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

PERMIT NO IN0000108 OUTFALL 005 Apr-12 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	1-3/WK	1-3/WK	3/7	2-4/WK	1-3/WK	5/7	1-3/WK

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	mg/l	LB/D	mg/l	LB/D
1		16.3	—	—	—	—	—	—	—	—	—	0.15	20	—	—
2		16.2	—	—	—	—	7.4	9.6	1297	—	—	0.22	30	0.02	2.7
3		15.4	—	—	41	5266	—	—	—	—	—	0.17	22	—	—
4		15.4	2.7	347	—	—	7.4	—	—	0.8	103	0.15	19	—	—
5		15.1	—	—	—	—	—	13.2	1662	—	—	0.15	19	—	—
6		14.8	—	—	—	—	7.4	—	—	—	—	—	—	—	—
7		16.2	—	—	—	—	—	—	—	—	—	—	—	—	—
8		15.0	—	—	—	—	—	—	—	—	—	0.12	15	—	—
9		15.6	—	—	—	—	7.4	10.0	1301	—	—	<0.10	<13	0.02	2.6
10		15.6	—	—	44	5725	—	—	—	—	—	<0.10	<13	—	—
11		16.2	1.9	257	—	—	7.2	—	—	1.1	149	0.10	14	—	—
12		15.0	—	—	—	—	—	3.8	475	—	—	<0.10	<13	—	—
13		16.6	—	—	—	—	7.3	—	—	—	—	—	—	—	—
14		17.2	—	—	—	—	—	—	—	—	—	—	—	—	—
15		16.4	4.5	615	36	4924	—	10.6	1450	—	—	0.19	26	0.01	1.4
16		15.7	—	—	—	—	7.4	13.6	1781	0.7	92	0.12	16	—	—
17		14.9	4.9	609	33	4101	—	9.6	1193	—	—	0.19	24	0.01	1.2
18		16.2	—	—	—	—	7.3	—	—	0.6*	81	<0.10	<14	—	—
19		15.6	5.4	703	57	7416	—	20.6	2680	—	—	<0.10	<13	0.01	1.3
20		16.2	—	—	—	—	7.3	—	—	0.4*	54	—	—	—	—
21		16.2	—	—	—	—	—	—	—	—	—	—	—	—	—
22		15.3	—	—	—	—	—	—	—	—	—	<0.10	<13	—	—
23		15.1	—	—	—	—	7.3	26.4	3325	—	—	0.13	16	0.01	1.3
24		14.7	—	—	44	5394	—	—	—	—	—	<0.10	<12	—	—
25		14.8	1.9	235	—	—	7.4	—	—	0.9	111	<0.10	<12	—	—
26		14.3	—	—	—	—	—	13.0	1550	—	—	<0.10	<12	—	—
27		14.3	—	—	—	—	7.4	—	—	—	—	—	—	—	—
28		15.3	—	—	—	—	—	—	—	—	—	—	—	—	—
29		15.0	—	—	—	—	—	—	—	—	—	<0.10	<13	—	—
30		15.5	—	—	—	—	7.4	6.8	879	—	—	0.16	21	0.02	2.6
31		—	—	—	—	—	—	—	—	—	—	—	—	—	—
AVERAGE		15.5	3.6	461	43	5471	7.4	7.4	1599	0.7*	98	<0.13	<17	0.01	1.9
HIGHEST VAL.		17.2	5.4	703	57	7416	7.4	26.4	3325	1.1	149	0.22	30	0.02	2.7
LOWEST VAL.		14.3	1.9	235	33	4101	7.2	3.8	475	0.4*	54	<0.10	<12	0.01	1.2
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		466.1													

CERTIFIED CERTIFIED OPERATOR : Barry L. Cook 5/22/2012 NO. 14407 DATE : AUTHORIZED AGENT : W. D.
Exp. 6/30/2013
—MEANS NOT TESTED THIS DATE
* MEANS NOT QUANTIFIABLE
Tel. 219-473-5298

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

PERMIT NO IN0000108 OUTFALL 005 Apr-12 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	1-3/WK	1-3/WK	1-3/WK	3/MO	1-3/WK	3/MO
LIMITS: AVG.	2.01	23.90	20.33			23.1
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
1	— —	— —	— —	— —	— —	—
2	— —	— —	<0.01 <1.35	— —	— —	—
3	— —	— —	— —	— —	— —	—
4	<0.005 <0.6	<0.01 <1.3	— —	— —	— —	—
5	— —	— —	— —	— —	0.01 1.26	—
6	— —	— —	— —	— —	— —	—
7	— —	— —	— —	— —	— —	—
8	— —	— —	<0.01 <1.30	— —	— —	—
9	— —	— —	— —	— —	— —	—
10	<0.005 <0.7	<0.01 <1.4	— —	— —	— —	—
11	— —	— —	— —	— —	0.01 1.25	—
12	— —	— —	— —	— —	— —	—
13	— —	— —	— —	— —	— —	—
14	<0.005 <0.7	<0.01 <1.4	<0.01 <1.37	0.017 2.3	0.02 2.74	5.11
15	— —	<0.01 <1.2	<0.01 <1.24	0.017 2.1	0.02 2.49	3.89
16	<0.005 <0.7	<0.01 <1.3	<0.01 <1.30	0.015 2.0	<0.01 <1.30	8.75
17	<0.005 <0.7	— —	— —	— —	— —	—
18	— —	— —	— —	— —	— —	—
19	— —	— —	<0.01 <1.26	— —	— —	—
20	— —	— —	— —	— —	— —	—
21	<0.005 <0.6	<0.01 <1.2	— —	— —	— —	—
22	— —	— —	— —	— —	<0.01 <1.19	—
23	— —	— —	— —	— —	— —	—
24	— —	— —	— —	— —	— —	—
25	— —	— —	<0.01 <1.29	— —	— —	—
26	— —	— —	— —	— —	— —	—
27	— —	— —	— —	— —	— —	—
28	— —	— —	— —	— —	— —	—
29	— —	— —	— —	— —	— —	—
30	— —	— —	— —	— —	— —	—
31	— —	— —	— —	— —	— —	—
AVERAGE	<0.005 <0.7	<0.01 <1.3	<0.01 <1.30	0.016 2.1	<0.01 <1.70	5.92
HIGHEST VAL.	<0.005 <0.7	<0.01 <1.4	<0.01 <1.37	0.017 2.3	0.02 2.74	8.75
LOWEST VAL.	<0.005 <0.6	<0.01 <1.2	<0.01 <1.24	0.015 2.0	<0.01 <1.19	3.89
OVER LIMIT	0 0	0 0	0 0	0 0	0 0	0

CERTIFIED OPERATOR: Gary T Cook 5/27/2012 NO. 14407 DATE: AUTHORIZED AGENT: N.P.
--MEANS NOT TESTED THIS DATE
Exp. 6/30/2013
Tel. 219-473-5298