bp

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

January 25, 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 December 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,

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\2012\12 - Dec 2012\WQR1212_PP.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

IN0000108002A82012

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	12/1/1012			TO	12/31/2012		

*** 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	******	******		******	73.4	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	******	******		******	41.5	46.4	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	683	865	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	******	******		7.3	******	8.2	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	62.1	79.5	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	1	25	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

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

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DISCHARGE MONITORING REPORT (DMR)

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FROM	12/1/1012			TO	12/31/2012		

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	******	1925.1	Mgal/ mo	******	******	******		0	Monthly	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report MO TOTAL							Monthly	RCOTOT

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	Nick Spencer, Business Unit Leader	N. Dj	219 473-3179	1	25	13
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IN0000108	003 A

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FROM	12	1	1012	TO	12	31	2012

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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			
pH	SAMPLE MEASUREMENT	******	******			******		SU			
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6 DAILY MN		9 DAILY MX			Weekly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******		******			mg/L			
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******			mg/L			
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			MGD	******	******	******				
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

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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	******	******		7.6	******	7.8	SU	0	2/month*	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	******	******		******	1.5	1.6	mg/L	0	2/month*	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report MO AVG	15 DAILY MX			Weekly	GRAB
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	******	******		******	17	17	mg/L	0	2/month*	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	0.013	0.168	MGD	******	******	******		0	Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX							Daily	TOTALZ

* - Effluent was discharged three days in a 2 week period; therefore, only 2 sampling events occured.

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Nick Spencer, Business Unit Leader	N.P.S.	219 473-3179	1	25	13
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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
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	64	139	lb/d	******	0.6	1.2	mg/L	0	Weekly	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	******	******		7.3	******	7.9	SU	0	Three Per 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	<137	305	lb/d	******	<1.5	3.2	mg/L	0	Twice Every 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	<53	122	lb/d	******	<0.5	1.2	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	<10	<14	lb/d	******	<0.10	<0.10	mg/L	0	Five Per 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	<7.8	20	lb/d	******	<0.07	0.19	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	0.9	1.1	lb/d	******	0.01	0.01	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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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Chromium, total (as Cr)	SAMPLE MEASUREMENT	<1.0	<1.2	lb/d	******	<0.01	<0.01	mg/L	0	Weekly	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	1.6	1.6	lb/d	******	0.016	0.016	mg/L	0	Monthly	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	<0.5	<0.6	lb/d	******	<0.005	<0.005	mg/L	0	Weekly	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	<0.95	<1.13	lb/d	******	<0.01	<0.01	mg/L	0	Weekly	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	12.0	16.4	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	******	******		******	<3.22	2.10	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	2597	4135	lb/d	******	27	37	mg/L	0	Weekly	COMP24
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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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	******	371.9	Mgal/mo	******	******	******		0	Monthly	RCOTOT
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 Dec-12 DEC 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								
MAX.				2.00	6.0-9.0				5	.06	20 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	79.5	7	23	0.795	———	———	———	———	———	———	———	44.6	73.4
2	76.9	7	25	0.865	———	———	———	———	———	———	———	44.6	77.0
3	76.2	7	25	0.857	8.2	———	———	———	———	———	———	44.6	77.0
4	76.0	8	25	0.807	———	———	———	———	———	———	———	46.4	77.0
5	77.2	8	23	0.723	8.0	———	———	———	———	———	———	46.4	73.4
6	79.2	7	23	0.792	———	———	———	———	———	———	———	44.6	73.4
7	75.9	8	24	0.759	8.1	———	———	———	———	0	0	46.4	75.2
8	76.4	7	23	0.764	———	———	———	———	———	———	———	44.6	73.4
9	70.8	6	23	0.752	———	———	———	———	———	———	———	42.8	73.4
10	58.6	6	23	0.622	7.8	———	———	———	———	———	———	42.8	73.4
11	58.0	6	23	0.616	———	———	———	———	———	———	———	42.8	73.4
12	55.9	6	23	0.594	8.0	<0.3	2	2	0	———	———	42.8	73.4
13	55.3	6	22	0.553	———	———	———	———	———	0	0	42.8	71.6
14	55.2	6	24	0.621	8.2	———	———	———	———	———	———	42.8	75.2
15	53.5	6	24	0.602	———	———	———	———	———	———	———	42.8	75.2
16	53.6	6	24	0.603	———	———	———	———	———	———	———	42.8	75.2
17	54.9	6	24	0.617	7.9	———	———	———	———	———	———	42.8	75.2
18	55.2	6	23	0.586	———	———	———	———	———	———	———	42.8	73.4
19	55.4	6	24	0.623	7.8	———	———	———	———	———	———	42.8	75.2
20	54.2	6	25	0.643	———	———	———	———	———	0	0	42.8	77.0
21	55.2	5	23	0.621	7.8	———	———	———	———	———	———	41.0	73.4
22	57.5	4	23	0.683	———	———	———	———	———	———	———	39.2	73.4
23	59.6	4	23	0.707	———	———	———	———	———	———	———	39.2	73.4
24	59.6	3	23	0.745	8.0	———	———	———	———	———	———	37.4	73.4
25	58.1	3	22	0.690	———	———	———	———	———	———	———	37.4	71.6
26	56.4	3	21	0.634	7.3	———	———	———	———	———	———	37.4	69.8
27	55.4	2	21	0.658	———	———	———	———	———	0	0	35.6	69.8
28	55.3	2	21	0.656	7.9	———	———	———	———	———	———	35.6	69.8
29	56.1	3	21	0.631	———	———	———	———	———	———	———	37.4	69.8
30	56.8	2	21	0.674	———	———	———	———	———	———	———	35.6	69.8
31	57.2	2	21	0.679	7.9	———	———	———	———	———	———	35.6	69.8
AVERAGE	62.1	5	23	0.683	7.9	<0.3	2	2	0	0	0	41.5	73.4
HIGHEST VAL.	79.5	8	25	0.865	8.2	<0.3	2	2	0	0	0	46.4	77.0
LOWEST VAL.	53.5	2	21	0.553	7.3	<0.3	2	2	0	0	0	35.6	69.8
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1925.1												

CERTIFIED OPERATOR : Barry L. Cook 1/18/2013 NO. 14407 Exp. 6/30/2013 Tel. 219-473-5298 AUTHORIZED AGENT : N. D. 1/25/13

--MEANS NOT TESTED THIS DATE

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

PERMIT NO. IN0000108 Dec-12 DEC 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	-------	-------	-------	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	-------	-------	-------	0.000
	12	-------	-------	-------	0.000
	13	-------	-------	-------	0.000
	14	-------	-------	-------	0.000
	15	-------	-------	-------	0.000
	16	-------	-------	-------	0.000
	17	-------	-------	-------	0.000
	18	-------	-------	-------	0.000
	19	-------	-------	-------	0.000
	20	-------	-------	-------	0.000
	21	-------	-------	-------	0.000
	22	-------	-------	-------	0.000
	23	-------	-------	-------	0.000
	24	-------	-------	-------	0.000
	25	-------	-------	-------	0.000
	26	-------	-------	-------	0.000
	27	-------	-------	-------	0.000
	28	-------	-------	-------	0.000
	29	-------	-------	-------	0.000
	30	-------	-------	-------	0.000
	31	-------	-------	-------	0.000
AVERAGE		0.0	0.0	0	0.000
HIGHEST VAL.		0.0	0.0	0	0.000
LOWEST VAL.		0.0	0.0	0	0.000
OVER LIMIT		0	0	0	NA

CERTIFIED OPERATOR : Barry L. Cook 1/18/2013 NO. 14407
--MEANS NOT TESTED THIS DATE Exp. 6/30/2013
Tel. 219-473-5298

DATE : 1/25/13 AUTHORIZED AGENT : N.D.

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

PERMIT NO. IN0000108 Dec-12 DEC 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	------	------	------	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	------	------	------	0.000
	12	------	------	------	0.000
	13	------	------	------	0.000
	14	------	------	------	0.000
	15	------	------	------	0.000
	16	------	------	------	0.000
	17	------	------	------	0.000
	18	------	------	------	0.000
	19	------	------	------	0.000
	20	------	------	------	0.000
	21	7.6	1.6	16	0.168
	22	------	------	------	0.000
	23	------	------	------	0.098
	24	------	------	------	0.000
	25	------	------	------	0.000
	26	------	------	------	0.000
	27	7.8	1.4	17	0.135
	28	------	------	------	0.000
	29	------	------	------	0.000
	30	------	------	------	0.000
	31	------	------	------	0.000
AVERAGE		7.7	1.5	17	0.013
HIGHEST VAL.		7.8	1.6	17	0.168
LOWEST VAL.		7.6	1.4	16	0.000
OVER LIMIT		0	0	0	NA

CERTIFIED OPERATOR : Barry Z. Cook 1/18/2013 NO. 14407
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Tel. 219-473-5298

DATE : 1/25/13 AUTHORIZED AGENT : N.D.

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

PERMIT NO IN0000108 OUTFALL 005 Dec-12 DEC 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	10.3	------	------	------	------	------	------	------	------	------	------	------	------	------
	2	10.4	------	------	------	------	------	------	------	------	------	<0.10	<9	------	------
	3	9.2	------	------	------	------	7.9	<1.0	<77	------	------	<0.10	<8	0.01	0.8
	4	7.2	------	------	27	1621	------	------	------	------	------	<0.10	<6	------	------
	5	10.4	0.3	26	------	------	7.9	------	------	<0.3	<26	<0.10	<9	------	------
	6	11.3	------	------	------	------	------	<1.0	<94	------	------	<0.10	<9	------	------
	7	10.4	------	------	------	------	7.8	------	------	------	------	------	------	------	------
	8	13.0	------	------	------	------	------	------	------	------	------	------	------	------	------
	9	11.9	------	------	------	------	------	------	------	------	------	<0.10	<10	------	------
	10	12.2	------	------	------	------	7.6	3.0	305	------	------	<0.10	<10	0.01	1.0
	11	13.4	------	------	37	4135	------	------	------	------	------	<0.10	<11	------	------
	12	13.9	1.2	139	------	------	7.5	------	------	<0.3	<35	<0.10	<12	------	------
	13	7.8	------	------	------	------	------	3.2	208	------	------	<0.10	<7	------	------
	14	16.4	------	------	------	------	7.6	------	------	------	------	------	------	------	------
	15	14.9	------	------	------	------	------	------	------	------	------	------	------	------	------
	16	14.2	------	------	------	------	------	------	------	------	------	<0.10	<12	------	------
	17	13.5	------	------	------	------	7.7	<1.0	<113	------	------	<0.10	<11	0.01	1.1
	18	13.4	------	------	26	2906	------	------	------	------	------	<0.10	<11	------	------
	19	11.7	0.5	49	------	------	7.4	------	------	<0.3	<29	<0.10	<10	------	------
	20	16.3	------	------	------	------	------	<1.0	<136	------	------	<0.10	<14	------	------
	21	13.3	------	------	------	------	7.5	------	------	------	------	------	------	------	------
	22	13.1	------	------	------	------	------	------	------	------	------	------	------	------	------
	23	13.1	------	------	------	------	------	------	------	------	------	<0.10	<11	------	------
	24	11.8	------	------	------	------	7.3	<1.0	<98	------	------	<0.10	<10	0.01	1.0
	25	11.5	------	------	18	1726	------	------	------	------	------	<0.10	<10	------	------
	26	12.2	0.4	41	------	------	7.4	------	------	1.2	122	<0.10	<10	------	------
	27	12.5	------	------	------	------	------	1.0	104	------	------	<0.10	<10	------	------
	28	12.3	------	------	------	------	7.7	------	------	------	------	------	------	------	------
	29	11.1	------	------	------	------	------	------	------	------	------	------	------	------	------
	30	9.2	------	------	------	------	------	------	------	------	------	<0.10	<8	------	------
	31	10.0	------	------	------	------	7.7	1.2	100	------	------	<0.10	<8	0.01	0.8
AVERAGE		12.0	0.6	64	27	2597	7.6	<1.5	<137	<0.5	<53	<0.10	<10	0.01	0.9
HIGHEST VAL.		16.4	1.2	139	37	4135	7.9	3.2	305	1.2	122	<0.10	<14	0.01	1.1
LOWEST VAL.		7.2	0.3	26	18	1621	7.3	<1.0	<77	<0.3	<26	<0.10	<6	0.01	0.8
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		371.90													

CERTIFIED OPERATOR : Barry Z. Cook 1/18/2013 NO. 14407
--MEANS N --MEANS NOT TESTED THIS DATE
Exp. 6/30/2013
Tel. 219-473-5298

DATE : 1/25/13 AUTHORIZED AGENT : N.D.

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

PERMIT NO IN0000108 OUTFALL 005 Dec-12 DEC 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	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	<0.01	<0.77	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—	—	2.10	0.000126
5	<0.005	<0.4	<0.01	<0.9	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	0.01	0.94	2.06	0.000194
7	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	0.016	1.6	—	—	—	—
10	—	—	—	—	<0.01	<1.02	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—
12	<0.005	<0.6	<0.01	<1.2	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	—	—	<0.01	<0.6	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	<0.01	<1.13	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—
19	<0.005	<0.5	<0.01	<1.0	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	0.07	9.5	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	<0.01	<0.98	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—
26	<0.005	<0.5	<0.01	<1.0	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	0.19	20	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	<0.01	<0.83	—	—	—	—	—	—
AVERAGE	<0.005	<0.5	<0.01	<1.0	<0.01	<0.95	0.016	1.6	<0.07	<7.8	2.08	0.000160
HIGHEST VAL.	<0.005	<0.6	<0.01	<1.2	<0.01	<1.13	0.016	1.6	0.19	20	2.10	0.000194
LOWEST VAL.	<0.005	<0.4	<0.01	<0.9	<0.01	<0.77	0.016	1.6	<0.01	<0.6	2.06	0.000126
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0

CERTIFIED OPERATOR : Barry E. Cook 1/18/2013 NO. 14407
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Tel. 219-473-5298

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