bp

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

June 27, 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 for the month of May 2011.

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. Spencer

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 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	05/01/11			TO	05/31/11		

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

IN0000108002A52011

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	******	******		******	84.3	87.8	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	******	******		******	52.6	57.2	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	525	665	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	******	******		7.8	******	8.1	SU	0	3 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	47.8*	64.8*	Mgal/d	******	******	******		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	6	27	11
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 Co

INDUSTRIAL MAJOR WHITING, LAKE COUNTY

*Note: A large variation in the flow data for Outfall 002 in May was noticed. Actions are being taken to resolve the issue. There are no compliance concerns for any of the NPDES permit limits for Outfall 002.

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

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* I N 0 0 0 0 1 0 8 0 0 2 A 5 2 0 1 1 *

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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	******	1482	Mgal/mo	******	******	******			Monthly	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report MO TOTAL						0	Monthly	RCOTOT

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Nick Spencer Business Unit Leader TYPED OR PRINTED	SIGNATURE	219 473-3179 AREA CODE AND NO.	6 27 11 MO DAY YEAR

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

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

Revised: ☐

IN0000108	003 A
PERMIT NUMBER	PERMITTED FEATURE

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IN0000108003A52011

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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	******	******		7.4	******	7.5	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*	0.6*	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	******	******		******	19	26	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	0.192**	2.197**	Mgal/d	******	******	******			Daily	ESTIMATE
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

* Means Not Quantifiable.

** Flow meter data showed inconsistencies with the recorded discharge valve position and precipitation data. Thus the data was considered unreliable and it was replaced by calculated flow estimated by the Hydrologic Modeling System (HES-HMS).

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pH	SAMPLE MEASUREMENT	******	******		7.8	******	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	******	******		******	<0.4*	1.0	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	******	******		******	17	22	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	0.372	1.459	Mgal/d	******	******	******			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ

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1N0000108005A5 2011

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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	525	879	lb/d	******	3.6	6.2	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	******	******		7.2	******	7.4	SU		3 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	2287	5562	lb/d	******	17.4	52.1	mg/L		2-4 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	101	142	lb/d	******	0.7*	1.0	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	<107	852	lb/d	******	<0.71	5.32	mg/L		5 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	23	53	lb/d	******	0.16	0.35	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	<1.5	1.6	lb/d	******	<0.01	0.01	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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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)	SAMPLE MEASUREMENT	<1.5	<1.7	lb/d	******	<0.01	<0.01	mg/L		Weekly	COMP 24
01034 1 0 0 Effluent Gross	PERMIT REQUIREMENT	23.9 MO AVG	68.53 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24
Vanadium, total recoverable	SAMPLE MEASUREMENT	3.5	3.5	lb/d	******	0.023	0.023	mg/L		Monthly	COMP 24
01128 1 0 1 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX			Report MO AVG	Report DAILY MX		0	Monthly	COMP24
Chromium, hexavalent dissolved (as Cr)	SAMPLE MEASUREMENT	<0.8	<0.9	lb/d	******	<0.005	<0.005	mg/L		Weekly	GRAB
01220 1 0 0 Effluent Gross	PERMIT REQUIREMENT	2.01 MO AVG	4.48 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	GRAB
Phenolics, total recoverable	SAMPLE MEASUREMENT	<1.53	<1.74	lb/d	******	<0.01	<0.01	mg/L		Weekly	COMP 24
32730 1 0 0 Effluent Gross	PERMIT REQUIREMENT	20.33 MO AVG	73.01 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.4	21.9	Mgal/d	******	******	******			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report MO AVG	Report DAILY MX						0	Daily	TOTALZ
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	6558	8459	lb/d	******	42	49	mg/L		Weekly	COMP 24
81017 1 0 0 Effluent Gross	PERMIT REQUIREMENT	30323 MO AVG	58427 DAILY MX			Report MO AVG	Report DAILY MX		0	Weekly	COMP24
Flow, total	SAMPLE MEASUREMENT	******	569.30	Mgal/mo	******	******	******			Monthly	RCOTOT
82220 1 0 0 Effluent Gross	PERMIT REQUIREMENT		Report MO TOTAL						0	Monthly	RCOTOT

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

PERMIT NO. IN0000108 May-11 MAY 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	7.4	<0.3	16	0.000
	3	--------	--------	--------	0.000
	4	--------	--------	--------	0.000
	5	--------	--------	--------	0.000
	6	--------	--------	--------	0.065
	7	--------	--------	--------	0.000
	8	--------	--------	--------	0.000
	9	7.3	0.3*	26	0.000
	10	--------	--------	--------	0.000
	11	--------	--------	--------	0.000
	12	--------	--------	--------	0.000
	13	--------	--------	--------	0.388
	14	--------	--------	--------	0.129
	15	7.5	0.6*	18	1.099
	16	--------	--------	--------	0.388
	17	--------	--------	--------	0.065
	18	--------	--------	--------	0.000
	19	--------	--------	--------	0.000
	20	--------	--------	--------	0.000
	21	--------	--------	--------	0.000
	22	--------	--------	--------	0.000
	23	7.4	0.4*	21	0.065
	24	--------	--------	--------	0.000
	25	--------	--------	--------	0.000
	26	--------	--------	--------	2.197
	27	--------	--------	--------	0.646
	28	--------	--------	--------	0.129
	29	7.5	<0.3	15	0.323
	30	--------	--------	--------	0.388
	31	--------	--------	--------	0.065
AVERAGE		7.4	0.4*	19	0.192
HIGHEST VAL.		7.5	0.6*	26	2.197
LOWEST VAL.		7.3	<0.3	15	0.000
OVER LIMIT		0	0	0	0

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

DATE : 6-22-11 AUTHORIZED AGENT :

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

PERMIT NO. IN0000108 May-11 MAY 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	7.7	<0.3	13	0.167
	3	--------	--------	--------	0.428
	4	--------	--------	--------	0.219
	5	--------	--------	--------	0.287
	6	--------	--------	--------	0.082
	7	--------	--------	--------	0.000
	8	--------	--------	--------	0.000
	9	7.9	<0.3	22	0.078
	10	--------	--------	--------	0.181
	11	--------	--------	--------	0.114
	12	--------	--------	--------	0.325
	13	--------	--------	--------	0.263
	14	--------	--------	--------	0.000
	15	7.8	1.0	17	0.308
	16	--------	--------	--------	0.650
	17	--------	--------	--------	0.640
	18	--------	--------	--------	0.737
	19	--------	--------	--------	0.620
	20	--------	--------	--------	0.108
	21	--------	--------	--------	0.000
	22	--------	--------	--------	0.000
	23	7.9	0.3*	19	0.205
	24	--------	--------	--------	0.544
	25	--------	--------	--------	1.459
	26	--------	--------	--------	1.409
	27	--------	--------	--------	0.499
	28	--------	--------	--------	0.271
	29	--------	--------	--------	0.000
	30	7.7	<0.3	14	0.854
	31	--------	--------	--------	1.078
AVERAGE		7.8	<0.4*	17	0.372
HIGHEST VAL.		7.9	1.0	22	1.459
LOWEST VAL.		7.7	<0.3	13	0.000
OVER LIMIT		0	0	0	0

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2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO IN0000108 OUTFALL 005 May-11 MAY PROCESS WATER EFFLUENT

PARAMETER		FLOW	BOD		COD		pH	TSS		OIL		NH3-N		SULFIDE		HX. CHRM	
CODE		50050	00310		81017		00400	00530		00552		00610		00745		01220	
SAMPLE TYPE																	
	PERMIT	CONT	24		24		GRAB	24		GRAB		24		24		GRAB	
	ACTUAL	CONT	24		24		GRAB	24		GRAB		24		24		GRAB	
FREQUENCY																	
	PERMIT	CONT	1/7		1/7		3/7	2/7		1/7		5/7		1/7		1/7	
	ACTUAL	CONT	1/7		1/7		3/7	2-4/7		1/7		5/7		1/7		1/7	
LIMITS:	AVG			4161		30323			4925		1368		1584		23.1		2.01
	MAX			8164		58427	6.0-9.0		7723		2600		3572		51.4		4.48
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	mg/l	LB/D
	1	12.8	------	------	------	------	------	52.1**	5562	------	------	0.12	13	------	------	------	------
	2	12.7	------	------	------	------	7.3	46.4	4915	------	------	0.27	29	<0.01	<1.1	------	------
	3	16.0	------	------	49	6539	------	15.0	2002	------	------	0.86	115	------	------	------	------
	4	15.1	2.5	315	------	------	7.2	------	------	0.9	113	0.14	18	------	------	<0.005	<0.6
	5	16.9	------	------	------	------	------	8.2	1156	------	------	0.24	34	------	------	------	------
	6	15.1	------	------	------	------	7.2	------	------	------	------	------	------	------	------	------	------
	7	17.1	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	8	18.1	------	------	------	------	------	------	------	------	------	0.96	145	------	------	------	------
	9	19.3	------	------	------	------	7.3	9.0	1449	------	------	2.08	335	<0.01	<1.6	------	------
	10	19.2	------	------	49	7846	------	------	------	------	------	5.32	852	------	------	------	------
	11	17.0	6.2	879	------	------	7.1	------	------	1.0	142	4.13	586	------	------	<0.005	<0.7
	12	18.0	------	------	------	------	------	9.4	1411	------	------	0.54	81	------	------	------	------
	13	20.2	------	------	------	------	7.3	------	------	------	------	------	------	------	------	------	------
	14	19.9	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	15	21.2	------	------	------	------	------	------	------	------	------	<0.10	<18	------	------	------	------
	16	20.9	------	------	------	------	7.1	13.4	2336	------	------	<0.10	<17	<0.01	<1.7	------	------
	17	20.7	------	------	49	8459	------	------	------	------	------	<0.10	<17	------	------	------	------
	18	19.2	3.3	528	------	------	7.1	------	------	0.6*	96	<0.10	<16	------	------	<0.005	<0.8
	19	17.1	------	------	------	------	------	8.0	1141	------	------	0.12	17	------	------	------	------
	20	17.3	------	------	------	------	7.3	------	------	------	------	------	------	------	------	------	------
	21	20.0	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	22	20.5	------	------	------	------	------	------	------	------	------	0.18	31	------	------	------	------
	23	19.6	------	------	------	------	7.2	5.4	883	------	------	0.18	29	<0.01	<1.6	------	------
	24	18.0	------	------	30	4504	------	------	------	------	------	0.17	26	------	------	------	------
	25	20.5	2.2	376	------	------	7.1	------	------	0.3*	51	<0.10	<17	------	------	<0.005	<0.9
	26	21.9	------	------	------	------	------	19.0	3470	------	------	<0.10	<18	------	------	------	------
	27	18.9	------	------	------	------	7.2	------	------	------	------	------	------	------	------	------	------
	28	18.4	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
	29	19.2	------	------	------	------	------	------	------	------	------	<0.10	<16	------	------	------	------
	30	19.3	------	------	------	------	7.4	5.2	837	------	------	0.14	23	0.01	1.6	------	------
	31	19.2	------	------	34	5444	------	------	------	------	------	0.11	18	------	------	------	------
AVERAGE		18.4	3.6	525	42	6558	7.2	17.4	2287	0.7*	101	<0.71	<107	<0.01	<1.5	<0.005	<0.8
HIGHEST VAL.		21.9	6.2	879	49	8459	7.4	52.1	5562	1.0	142	5.32	852	0.01	1.6	<0.005	<0.9
LOWEST VAL.		12.7	2.2	315	30	4504	7.1	5.2	837	0.3*	51	<0.10	<13	<0.01	<1.1	<0.005	<0.6
OVER LIMIT			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		569.30															

CERTIFIED CERTIFIED OPERATOR : David J. Allen NO. 14118
--MEANS N --MEANS NOT TESTED THIS DATE Exp. 6/30/2012
* MEANS NOT QUANTIFIABLE Tel. 219-473-5298
** Result of 52.1 represents the average of 3 analyses.

DATE : 6-22-11 AUTHORIZED AGENT :

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

PERMIT NO IN0000108 OUTFALL 005 May-11 MAY 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	------	------	------	------	<0.01	<1.06	------	------	------	------	------	------
3	------	------	------	------	------	------	------	------	------	------	------	------
4	<0.005	<0.6	<0.01	<1.3	------	------	------	------	------	------	------	------
5	------	------	------	------	------	------	------	------	0.22	31	------	------
6	------	------	------	------	------	------	------	------	------	------	------	------
7	------	------	------	------	------	------	------	------	------	------	------	------
8	------	------	------	------	------	------	0.023	3.5	------	------	------	------
9	------	------	------	------	<0.01	<1.61	------	------	------	------	------	------
10	------	------	------	------	------	------	------	------	------	------	------	------
11	<0.005	<0.7	<0.01	<1.4	------	------	------	------	------	------	------	------
12	------	------	------	------	------	------	------	------	0.35	53	------	------
13	------	------	------	------	------	------	------	------	------	------	------	------
14	------	------	------	------	------	------	------	------	------	------	------	------
15	------	------	------	------	------	------	------	------	------	------	------	------
16	------	------	------	------	<0.01	<1.74	------	------	------	------	------	------
17	------	------	------	------	------	------	------	------	------	------	------	------
18	<0.005	<0.8	<0.01	<1.6	------	------	------	------	------	------	------	------
19	------	------	------	------	------	------	------	------	0.04	6	------	------
20	------	------	------	------	------	------	------	------	------	------	------	------
21	------	------	------	------	------	------	------	------	------	------	------	------
22	------	------	------	------	------	------	------	------	------	------	------	------
23	------	------	------	------	<0.01	<1.63	------	------	------	------	------	------
24	------	------	------	------	------	------	------	------	------	------	------	------
25	<0.005	<0.9	<0.01	<1.7	------	------	------	------	------	------	------	------
26	------	------	------	------	------	------	------	------	0.02	4	------	------
27	------	------	------	------	------	------	------	------	------	------	------	------
28	------	------	------	------	------	------	------	------	------	------	------	------
29	------	------	------	------	------	------	------	------	------	------	------	------
30	------	------	------	------	<0.01	<1.61	------	------	------	------	------	------
31	------	------	------	------	------	------	------	------	------	------	------	------
AVERAGE	<0.005	<0.8	<0.01	<1.5	<0.01	<1.53	0.023	3.5	0.16	23	------	------
HIGHEST VAL.	<0.005	<0.9	<0.01	<1.7	<0.01	<1.74	0.023	3.5	0.35	53	------	------
LOWEST VAL.	<0.005	<0.6	<0.01	<1.3	<0.01	<1.06	0.023	3.5	0.02	4	------	------
OVER LIMIT	0	0	0	0	0	0	0	0	0	0		

CERTIFIED OPERATOR : David J. Olen NO. 14118
--MEANS NOT TESTED THIS DATE
Exp. 6/30/2012
Tel. 219-473-5298

DATE : 6-22-11

AUTHORIZED AGENT :

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

PERMIT NO IN0000108 OUTFALL 002 May-11 MAY 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	64.8	10	26	0.648	—	—	—	—	—	—	—	50.0	78.8
2	62.5	10	27	0.664	7.5	—	—	—	—	—	—	50.0	80.6
3	60.1	10	27	0.638	—	—	—	—	—	—	—	50.0	80.6
4	56.0	10	28	0.630	7.9	—	—	—	—	—	—	50.0	82.4
5	58.0	11	29	0.652	—	—	—	—	—	0	0	51.8	84.2
6	55.9	11	29	0.629	7.7	—	—	—	—	—	—	51.8	84.2
7	54.9	12	29	0.583	—	—	—	—	—	—	—	53.6	84.2
8	52.3	11	29	0.588	—	—	—	—	—	—	—	51.8	84.2
9	52.1	11	30	0.618	7.6	—	—	—	—	—	—	51.8	86.0
10	56.0	11	30	0.665	—	—	—	—	—	—	—	51.8	86.0
11	45.1	12	31	0.535	7.5	<0.3	—	—	—	—	—	53.6	87.8
12	24.1	12	31	0.286	—	—	—	—	—	0	0	53.6	87.8
13	32.9	14	31	0.349	7.8	—	—	—	—	—	—	57.2	87.8
14	28.7	11	29	0.323	—	—	—	—	—	—	—	51.8	84.2
15	29.5	11	29	0.332	—	—	—	—	—	—	—	51.8	84.2
16	56.0	11	29	0.630	7.8	—	—	—	—	—	—	51.8	84.2
17	56.5	11	29	0.635	—	—	—	—	—	—	—	51.8	84.2
18	56.0	11	28	0.595	7.9	—	—	—	—	—	—	51.8	82.4
19	61.0	11	28	0.648	—	—	—	—	—	0	0	51.8	82.4
20	62.1	11	28	0.660	8.0	—	—	—	—	—	—	51.8	82.4
21	55.7	11	28	0.592	—	—	—	—	—	—	—	51.8	82.4
22	55.1	11	28	0.585	—	—	—	—	—	—	—	51.8	82.4
23	39.4	12	31	0.468	8.0	—	—	—	—	—	—	53.6	87.8
24	38.8	14	31	0.412	—	—	—	—	—	—	—	57.2	87.8
25	40.9	13	31	0.460	7.8	—	—	—	—	—	—	55.4	87.8
26	33.7	12	29	0.358	—	—	—	—	—	0	0	53.6	84.2
27	42.8	12	29	0.455	8.1	—	—	—	—	—	—	53.6	84.2
28	39.3	11	28	0.417	—	—	—	—	—	—	—	51.8	82.4
29	42.1	12	29	0.447	—	—	—	—	—	—	—	53.6	84.2
30	36.6	12	29	0.389	7.9	—	—	—	—	—	—	53.6	84.2
31	33.1	12	30	0.372	—	—	—	—	—	—	—	53.6	86.0
AVERAGE	47.8	11	29	0.525	7.8	<0.3	—	—	—	0	0	52.6	84.3
HIGHEST VAL	64.8*	14	31	0.665	8.1	<0.3	—	—	—	0	0	57.2	87.8
LOWEST VAL.	24.1*	10	26	0.286	7.5	<0.3	—	—	—	0	0	50.0	78.8
OVER LIMIT	0			0	0					0	0	0	0
TOTAL	1482.0												

CERTIFIED OPERATOR : David J. Olen NO. 14118 Exp. 6/30/2012 AUTHORIZED AGENT :

--MEANS NOT TESTED THIS DATE 6-22-11 Tel. 219-473-5298

*Note: A large variation in the flow data for Outfall002 in May was noticed. Actions are being taken to resolve the issue. There are no compliance concerns for any of the NPDES permit limits