NUMBER OF THE ILL VIVOE BOY	THE CONTROL TO LEE					
BEFORE THE ILLINOIS POLLUTION CONTROL BOARD						
WRB Refining LLC (Property Indentification Number 19-1-08-34-00-000-006))) PCB 012-) (Tax Certification)					
NOTICE						
Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph Street, Suite. 11-500 Chicago, Illinois 60601	Michael Kemp 404 Phillips Building Bartlesville, Oklahoma 74004					
Steve Santarelli Illinois Department of Revenue 101 West Jefferson Post Office Box 19033 Springfield, Illinois 62794						
PLEASE TAKE NOTICE that I have to	oday filed with the Office of the Clerk of the					
Pollution Control Board an APPEARANCE AN	THE RECOMMENDATION of the Illinois					
Environmental Protection Agency, a copy of which i	s herewith served upon you.					
	ILLINOIS ENVIRONMENTAL PROTECTION `AGENCY					
	By: Vera Herst Assistant Counsel Division of Legal Counsel					
DATED: February 15, 2012						
Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (217) 782-5544						

BEFORE THE ILLING	DIS POLLUTION CONTROL BOARD
WRB Refining LLC (Property Indentification Number 19-1-08-34-00-000-006)) PCB 012-) (Tax Certification)
A 1	P P E A R A N C E
The undersigned, as one of its attorneys, her Illinois Environmental Protection Agency.	reby enters an APPEARANCE on behalf of Respondent,
	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DATED: February 15, 2012 Illinois Environmental Protection Agency 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276 (217)782-5544	By: Vera Herst Assistant Counsel Division of Legal Counsel

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Indentification Number) PCB 012-
19-1-08-34-00-000-006)) (Tax Certification
)

RECOMMENDATION

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board, 35 Ill. Adm. Code 125.204.

- On June 29, 2011, the Illinois EPA received a request from WRB Refining LLC (log number TC-07-11, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
- 2. The applicant's address is: WRB Refining LLC 900 S. Central Ave Roxanna, Illinois 62084
- 3. The proposed water pollution control facilities in this request are located at Section 34 SE ¼,
 T5N, R9W, in Madison County, at the above street address and consist of the following:

The removal and replacement of existing facilities described as Pond 1 with a 100 ft x 300 ft x 24 ft activated sludge unit, four 600 HP centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm; and the existing Pond 2 subdivided into two portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed systems and the addition of two scrubber solids clarifiers with dewatering boxes, and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

These pollution control facilities have the primary purpose of eliminating, preventing, or reducing water pollution, and are further described in Exhibit A.

4. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2010), defines "pollution control facilities" as:

"any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: (a) eliminating, preventing, or reducing air or water pollution ...or (b) treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property."

- 5. Pollution control facilities are entitled to preferential tax treatment, 35 ILCS 200/11-5.
- 6. Based on the information in the application and the purpose of the facilities, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the

requested tax certification.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Vera Herst

Assistant Counsel

Division of Legal Counsel

Dated: February 15, 2012 Illinois Environmental Protection Agency 1021 North Grand Ave. E. P.O. Box 19276 Springfield, Illinois 62794-9276 217/782-5544



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1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 ● (217) 782-2829 James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 ● (312) 814-6026

PAT QUINN, GOVERNOR

Memorandum

To:

Connie Tonsor, Division of Legal Counsel

From: Alan Keller, Manager, Permit Section

Date:

November 21, 2011

Re:

WRB Refining LLC

Recommendation of Tax Certification

Log # TC-07-11

Property Identification # 19-1-08-34-00-000-006

The Bureau of Water received a request on June 29, 2011 from WRB Refining LLC for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Il. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

WRB Refining LLC 404 Phillips Building Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

The removal and replacement of existing facilities described as Pond 1 with a 100 ft X 300 ft X 24 ft activated sludge unit, four 600 hp centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm, and the existing Pond 2 subdivided into 2 portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed system and the addition of 2 scrubber solids clarifiers with dewatering boxes and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

Page 2 * Log No. TC-07-11

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Jaime Rabins at 217/782-0610.

SAK:JAR:TC0711.docx

cc. Tax Cert File

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ENVIRONMENTAL PROTECTION AGENCY

Subject: WRB Refining LLC Page 1 of 1

Data: TC-07-11

Reviewed By: Jaime Rabins Date: July 12, 2011

Applicant:

WRB Refining LLC 404 Phillips Building Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

On June 29, 2011 the Agency received a request to make a recommendation regarding the tax certification for the following:

The removal and replacement of existing facilities described as Pond 1 with a 100 ft X 300 ft X 24 ft activated sludge unit, four 600 hp centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm, and the existing Pond 2 subdivided into 2 portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed system and the addition of 2 scrubber solids clarifiers with dewatering boxes and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

The upgrades were authorized to be constructed by permit 2007-EB-3690 issued on August 16, 2007.

The pretreatment systems' primary purpose is to prevent and eliminate pollutants which if not treated might be harmful, detrimental or offensive to human, plant or animal life, or to property as defined in 35 IAC 125.200(a).

Action: Recommend for consideration of Pollution Control Facilities.

Electronic Filing - Received, Clerk's Office, 02/15/2012

APPLICATION FOR CERTIFICATION (PROPER PY 12x 1 REATMENT) * *

POLLUTION CONTROL FACILITY

AIR □ WATER ☑

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY P. O. Box 19276, Springfield, IL 62794-9276

This Agency is authorized to request this information under Illinois Revised Statues, 1979, Chapter, 120, Section 502a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

	, , =, = 0.0, , = 0.0, , = 0.0, , = 0.0,			application for certification.
	FOR AGENCY USE			
File No.	Date Received	Certification No.		Date
Sec. A	Company Name			
	WRB Refining LLC			
	Person Authorized to Receive Certification			itact for Additional Details
	Michael Kemp		Jay Rankin	
	Street Address		Street Address	
APPLICANT	404 Phillips Building Municipality, State & Zip Code		900 S. Central Ave., P.O. Box 76 Municipality, State & Zip Code	
	Bartlesville, OK 74004		Roxana, IL 62084	
	Teléphone Number		Telephone Nu	
4PP	(918) 661-9055		(618) 255-27	
	Location of Facility	***	Municipality	Township
	Quarter Section Township	Range	المحمد	Wood River
	34 SE 1/4 5' N:	9 W	Hartford County	Book Number
	Street Address 900 S. Central Ave.		Madison	Dook Mailibei
	Property Identification Number		Parcel Numbe	ar.
	Toporty recommon printed the second		19-1-08-34-0	
Sec. B	Nature of Operations Conducted at the Abov	e Location		<u> </u>
	· ·			
	Petroleum Refining			
S S		=		
E S	Water Pollution Control Construction Permit	No.	Date Issued	
. AS FAT	2007EB3690		08/16/07	
MANUFACTURING	NPDES PERMIT No.		Date Issued	Expiration Date
₹ A A	IL0000205		04/14/04 Date Issued	04/14/09
	Air Pollution Control Construction Permit No. 06050052	•	08/05/08	
	Air Pollution Control Operating Permit No.		Date Issued	
	95120306		11/07/03	
Sec. C	Describe Unit Process ·		1 13,01,00	The state of the s
000.0	See Waste Water Treatment Plant (WWI	(D) Uparada Br	oigat attachma	nt
	See waste water freatment Plant (www.i	ir) opgrade ri	ojeci attacimie	111,
N.G				
TUR SSS				389
OSC S	Materials Used in Process			
MANUFACTURING PROCESS	Sulfuric Acid, Caustic, Nitrogen, Air, meth	nanol, Phospho	ric Acid, bacter	ria for biological treatment of the
MA	water.	•	•	,
	,	•		
Sec. D	Describe Pollution Abatement Control Facility	,		
	See Waste Water Treatment Plant (WWT		oiect attachma	nt
호텔	See waste water freatment is ant (www.	ii) opgrade i ii	ojeći attacilile	,
ONT PIND				
)N C				
E J F				•
POLLUTION CONTROL FACILITY DESCRIPTION				
9 F				

Sec. E	! (1) Nia+	vise of Contaminants or Balluta	* PCB 2012-106 * * * *			
OGG, E	(I) Nat	ure of Contaminants or Pollutar	nts			
			Material Re	etained, Captured or Recovered		
1	Contan	ninant or Pollutant	DESCRIPTION	DISPOSAL OR USE		
*		arbon compounds	oil	Recovered for Reprocessing		
TAN	Solids		solids	Converted to coke product		
í Ö	Ammon		Ammonia	Converted to Nitrogen gas		
Ę.	Sulfur c	ompounds	Sulfur compounds	Converted to Sulfates per NPDES		
.Aci	(n) n=:			requirements.		
OL F		nt(s) of Waste Water Discharge sippi River per NPDES Permit)			
ž I	14112212	sippinive per Ni DES Feililli	Plans and Specificatio	ns Attached Yes □ No ⊠		
lo:	(3)	Are contaminants (or residues)	collected by the control facility?	Yes 🗵 No 🗆		
NO		Date installation completed 11/		on date of application 100%		
LUT A			Diagno of molanation			
POLLUTION CONTROL FACILITY — CONTAN" CONTAN"	\ "	TOTAL INSTALLED COST		20,002,707.00		
, on	L t	NET SALVAGE VALUE IF CO	NSIDERED REAL PROPERTY:	\$ 534,000.00		
Ľ.	c	. PRODUCTIVÉ GROSS ANNU	AL INCOME OF CONTROL FACILIT	Y: \$ 0.00		
00	С	I. PRODUCTIVE NET ANNUAL	INCOME OF CONTROL FACILITY:	\$ 0.00		
AC	6	PERCENTAGE CONTROL FA	CILITY BEARS TO WHOLE FACILIT			
Sec. F				ax Code, as amended, and to the best of my		
				rol facilities" as defined in Section 11-10 of the		
JRE		Property Tax Code.				
SIGNATURE	l 1/ .	\sim				
<u>10</u>	1-69	lul (tuy)	DIRECTOR - PTRRC			
o,	Signati	ure Y	Title			
Sec. G		INSTRU	CTIONS FOR COMPILING AND FILING A	APPLICATION		
;	General	Separate applications must be comp	pleted for each control facility claimed. De	o not mix types (water and air). Where both air and		
(ns. If attachments are needed, record the			
-	Sec. A	Information refers to applicant as lis	sted in the tax records and the person to b	e contacted for further details or for inspection of		
		facilities. Define facility location by	street address or legal description. A plat he property identification number is require	map location is required for facilities located		
	Sec. B	· · · · · · · · · · · · · · · · · · ·				
		Self-explanatory. Submit copies of	all permits issued by local pollution contro	I agencies. (e.g. MSD Construction Permit)		
	Sec. C	Refers to manufacturing processes	or materials on which pollution control fac-	sility is used.		
	Sec. D	Narrative description of the pollution	n control facility, indicating that its primary	purpose is to eliminate, prevent or reduce pollution.		
	State the type of control facility. State permit number, date, and agency issuing permit. A narrative description and a p					
	ļ			major piece of equipment included in the claimed and effluent of the control facility stating the		
		collection efficiency.	······································	, ,		
S	Sec. E			ne manufacturing processes. List also the final		
INSTRUCTIONS			ved from the manufacturing processes. contaminants removed from the process b	y the pollution control facility.		
ະບຣ	[Item (2) – Refers to water pollution	but can apply to water-carried wastes fron	n air pollution control facilities. Submit drawings,		
STF		which clearly show (a) Point(s) of d facility.	ischarge to receiving stream, and (b) Sew	ers and process piping to and from the control		
≟			ants are disposed of other than as wastes,	, state the disposition of the materials, and the value		
			e of the collected substances. State the c			
			pollution control facility was first placed in tial to the certification and assessment ac	service and operated. If not, explain. tions. This accounting data must be completed to		
		activate project review prior to certi		The descenting data mast so completed to		
	Sec. F	Self-explanatory, Signature must be	e a corporate authorized signature.			
		Submit to:	Attention:	Attention:		
		Illinois EPA	Al Keller	Donald E. Sutton		
	ļ	P.O. Box 19276	Permit Section	Permit Section Division of Air Pollution Control		

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT) POLLUTION CONTROL FACILITY WRB – Wood River Refinery

Project: Waste Water Treatment Plant (WWTP) Upgrade Project

Section C – Manufacturing Process

Process Description:

The sole purpose of the Wood River Refinery Waste Water Treatment Plant (WWTP) is to remove pollutants from refinery water streams so that the water discharged from the refinery meets the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and can be discharged to the Mississippi River.

The Wood River WWTP Upgrade Project was implemented to increase the capacity of the WWTP and to improve the capability of the WWTP to recover solids from the refinery waste water. This increased capacity and improved solids removal was necessary primarily to process the waste water produced by two new Fiuid Cat Cracker Wet Gas Scrubbers which were installed to comply with the Wood River Consent Decree.

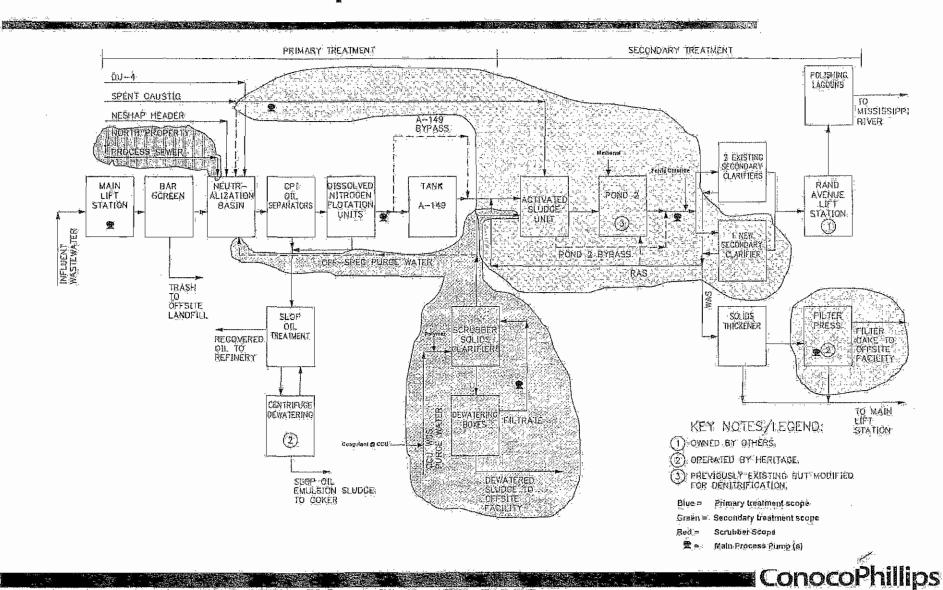
Water from all refinery process, sanitary, and some storm sewers and water from the Refinery NESHAP header is routed to the WWTP. The combined water stream flows to eight corrugated plate interceptor (CPI) separators where oil and solids are separated from the waste water. The recovered oil is transferred to heated tanks to remove entrained water and break emulsions that may be present. This recovered oil is returned to the refinery for processing into transportation fuels. Recovered solids are sent to a solids dewatering facility to be centrifuged. These solids are then fed to the refinery Delayed Coker unit and converted to coke.

The water from the CPI separators flows to Dissolved Nitrogen Flotation (DNF) units where bubbling nitrogen gas is used to enhance oil removal from the water. This recovered oil is also returned to the refinery for processing into transportation fuels. Clarified DNF effluent is then pumped to an equalization tank. From the equalization tank, water flows to the Activated Sludge Unit (ASU) for biological and chemical treatment of the water. In the ASU, water pH is adjusted and dissolved organic compounds are biologically oxidized to CO2 and water, dissolved ammonia is biologically oxidized to nitrate, and sulfur compounds are oxidized to sulfates.

Water from the ASU flows to Pond 2 for further treatment. Pond 2 has an aeration zone for further organic and ammonia contaminant removal and an anoxic zone for nitrate conversion to nitrogen (N2) gas. From Pond 2, the water is pumped to three secondary clarifiers to recover the activated sludge and return it to the ASU. Effluent from the secondary clarifiers is routed to polishing lagoons to allow additional solids settling. The water is then discharged to the Mississippi River. The water discharge is sampled as required to confirm it meets all NPDES permit requirements.

In addition to expanding WWTP capacity by installing a new Activated Sludge Unit (ASU) and new Secondary Clarifier along with associated air blowers, pumps, and solids handling equipment, the WWTP Upgrade Project installed two Scrubber Solids Clarifiers (SSCs) which remove catalyst fines from the purge water from the two new Fluid Cat Cracker Wet Gas Scrubbers which were installed to comply with the Wood River Consent Decree. The water from the SSCs contains sulfites and is routed to the ASU so that the sulfur compounds can be oxidized to sulfates to meet the NPDES permit.

WWTP Status Update: BFD POST CORE



STATE OF ILLINOIS)
COUNTY OF SANGAMON)))

PROOF OF SERVICE

I, the undersigned attorney at law, hereby certify that on February 15, 2012, I served true and correct copies of an <u>APPEARANCE AND THE RECOMMENDATION</u>, upon the persons and by the methods as follows:

[1st Class U.S. Mail]

Steve Santarelli Illinois Department of Revenue 101 West Jefferson Post Office Box 19033 Springfield, Illinois 62794 [1st Class U.S. Mail] Michael Kemp 404 Phillips Building Bartlesville, Oklahoma 74004

[Electronic Filing]

Clerk Illinois Pollution Control Board James R. Thompson Center 100 West Randolph Street, Suite. 11-500 Chicago, Illinois 60601

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Vera Herst Assistant Counsel Division of Legal Counsel 1021 North Grand Avenue East P.O. Box 19276-Springfield, Illinois 62794-9276 217.782.5544 217.782.9143 (TDD)