

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Marathon Petroleum Company LP)
(Property Identification Number) PCB 18-
05-1-34-000-021-000) (Tax Certification)
)

NOTICE


Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
Post Office Box 19033
Springfield, Illinois 62794

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

Kevin D. Bogard
400 S. Marathon Avenue
Robinson, Illinois 62454

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE and RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 

Michael S. Roubitchek
Assistant Counsel
Division of Legal Counsel

DATED: December 12, 2017

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Marathon Petroleum Company LP)
(Property Identification Number) **PCB 18-**
05-1-34-000-021-000)) **(Tax Certification)**
)

APPEARANCE

The undersigned, as one of its attorneys, hereby enters an APPEARANCE on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 

Michael S. Roubitchek
Assistant Counsel
Division of Legal Counsel

DATED: December 12, 2017

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217)782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Marathon Petroleum Company LP)
(Property Identification Number) **PCB 18-**
05-1-34-000-021-000)) **(Tax Certification)**
)

RECOMMENDATION OF THE ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

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 ("Board"), 35 Ill. Adm. Code 125.204.

1. On April 3, 2017, the Illinois EPA received a request from Marathon Petroleum Company LP (log number TC-137772, 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 facility's address is: Marathon Petroleum Company LP
400 S. Marathon Avenue
Robinson, IL 62454

The proposed water pollution control facilities in this request are located in Robins Township, in Crawford County, at the above street address and consist of the following:

Two new sand filters (each with a design capacity of 800gpm), and two accompanying new filter feed pumps.

These wastewater management facilities are used to treat wastewater prior to discharge by expanding tertiary filter hydraulic capacity in order to aid in lowering total suspended solids in the effluent, allow the treatment plant to handle much higher flow rates during rain events, increase storm water treatment

capacity and limit the need for partial bypassing, and meet applicable water quality standards in the site's NPDES Permit, and are further described in Exhibit A.

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2016), and Section 125.200(a) of the Board's regulations, 35 Ill. Adm. Code 125.200(a), define


"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: eliminating, preventing, or reducing air or water pollution ...or 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.

4. In order to receive preferential tax treatment as pursuant to 35 ILCS 200/11-5 (2016), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2016) and 35 Ill. Adm. Code 125.200(a).
5. Upon receipt of a tax certification application, the Illinois EPA must file a recommendation on the application with the Board, 35 Ill Adm. Code 125.204(a).
6. Based on the information in the application and the purpose of the facility, 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: 
Michael S. Roubitchek
Assistant Counsel
Division of Legal Counsel

Dated: December 12, 2017

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



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

Memorandum

To: Joanne Olson, Division of Legal Counsel

From: Alan Keller, Manager, Permit Section *AKL*

Date: November 7, 2017

Re: Marathon Petroleum Company, LP
Recommendations of Tax Certification
Log # TC-137772
Property Identification Number 05134000021000

The Bureau of Water received a request on April 3, 2017 from Marathon Petroleum Company, LP for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. We offer the following recommendation.

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

Marathon Petroleum Company, LP,
400 S. Marathon Ave.
Robinson, IL 62454

Robins Township, in Crawford County, Illinois

Two new 800 GPM sand filters and new filter feed pumps.

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.

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

Subject: TC-137772 Marathon Petroleum Company LP

Page 1 of 1

Reviewed By: Mark E. Liska

Date: 11/7/2017

The Agency received a tax certification for Marathon Petroleum Company LP under 35 IAC 125. The tax form will be judged based on definitions in 35 IAC 125.200.

From April 3, 2017 for the construction of two new 800 GPM sand filters and associated pumps at the Marathon Robinson Refinery in Robinson, IL which has a discharge under NPDES permit IL0004073. This treatment equipment treats for total suspended solids. It operates in parallel with the existing 2,400 GPM of sand filters that they can run together or one can be shut off while that other one is undergoing maintenance. The addition of this increases the overall effectiveness of the treatment system.

The Application for Certification form lists the two new sand filters and associated pumps. The treatment system will be approved for certification, as it has the primary purpose of treating wastewater to meet proper surface water standards.

Action: Approve Tax Credit


TC-137772

APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)
 POLLUTION CONTROL FACILITY
 AIR WATER

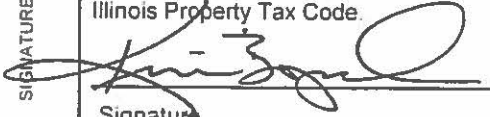
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 P. O. Box 19276, Springfield, IL 62794-9276

This Agency is authorized to request this information under Illinois Revised Statutes, 1979, Chapter, 120, Section 502-5. 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.

FOR AGENCY USE

File No.	Date Received	Certification No	Date	
Sec. A APPLICANT	Company Name Marathon Petroleum Company LP			
	Person Authorized to Receive Certification Kevin D. Bogard		Person to Contact for Additional Details Susan Hawkins	
	Street Address 400 South Marathon Avenue		Street Address 400 South Marathon Avenue	
	Municipality, State & Zip Code Robinson, IL 62454		Municipality, State & Zip Code Robinson, IL 62454	
	Telephone Number 618-544-2121		Telephone Number 618-544-2121	
	Location of Facility Quarter Section	Township Robins	Range	Municipality Robinson
	Street Address 400 South Marathon Avenue		County Crawford	Township Robins
	Property Identification Number 05-1-34-000-021-000		Parcel Number 1202100001	Book Number
	<div style="text-align: right;">  NOV 25 2014 Environmental Protection Agency (618) 544-2121 </div>			
	Sec. B MANUFACTURING OPERATIONS	Nature of Operations Conducted at the Above Location Petroleum Refining		
Water Pollution Control Construction Permit No. N/A		Date Issued		
NPDES PERMIT No IL0004073		Date Issued 09/30/09	Expiration Date 09/30/14	
Air Pollution Control Construction Permit No. NA		Date Issued		
Air Pollution Control Operating Permit No. 96010007 (Title V Permit)		Date Issued 11/23/03		
Sec. C MANUFACTURING PROCESS	Describe Unit Process See Attachment "A"			
	Materials Used in Process See Attachment "B"			
Sec. D POLLUTION CONTROL FACILITY DESCRIPTION	Describe Pollution Abatement Control Facility Sand Filter Expansion (Waste Water Treatment Plant) See Attachment "B"			

RECEIVED
 APR 03 2017
 IEPA
 BOWWPC/PERMIT SECTION

Sec. E	(1) Nature of Contaminants or Pollutants Hydrocarbons (volatile organic compounds, inter alia).			
	CONTAMINANTS	Material Retained, Captured or Recovered		
		Contaminant or Pollutant	DESCRIPTION	DISPOSAL OR USE
		Total Suspended Solids	Pollutant	Controlled in WWTP
		(2) Point(s) of Waste Water Discharge		
			Plans and Specifications Attached	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	(3) Are contaminants (or residues) collected by the control facility?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	(4) Date installation completed <u>10/31/13</u> status of installation on date of application <u>Complete</u>			
	(5) a. FAIR CASH VALUE IF CONSIDERED REAL PROPERTY:		\$ 3,704,430.00	
	b. NET SALVAGE VALUE IF CONSIDERED REAL PROPERTY:		\$ 18,522.00	
	c. PRODUCTIVE GROSS ANNUAL INCOME OF CONTROL FACILITY:		\$ 0.00	
	d. PRODUCTIVE NET ANNUAL INCOME OF CONTROL FACILITY:		\$ 0.00	
	e. PERCENTAGE CONTROL FACILITY BEARS TO WHOLE FACILITY VALUE:		% .0018	
Sec. F	The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge, is true and correct. The facilities claimed herein are "pollution control facilities" as defined in Section 11-10 of the Illinois Property Tax Code.			
	SIGNATURE	 Signature		
		Title <u>GENERAL MANAGER</u>		
Sec. G	INSTRUCTIONS FOR COMPILING AND FILING APPLICATION			
	General: Separate applications must be completed for each control facility claimed. Do not mix types (water and air). Where both air and water operations are related, file two applications. If attachments are needed, record them consecutively on an index sheet.			
	Sec. A	Information refers to applicant as listed in the tax records and the person to be contacted for further details or for inspection of facilities. Define facility location by street address or legal description. A plat map location is required for facilities located outside of municipal boundaries. The property identification number is required.		
	Sec. B	Self-explanatory. Submit copies of all permits issued by local pollution control agencies. (e.g. MSD Construction Permit)		
	Sec. C	Refers to manufacturing processes or materials on which pollution control facility is used.		
	Sec. D	Narrative description of the pollution 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 process flow diagram describing the <u>pollution control facility</u> . Include a listing of each major piece of equipment included in the claimed fair cash value for real property. Include an <u>average</u> analysis of the influent and effluent of the control facility stating the collection efficiency.		
	Sec. E	List air contaminants, or water pollution substances released as effluents to the manufacturing processes. List also the final disposal of any contaminants removed from the manufacturing processes. Item (1) – Refers to pollutants and contaminants removed from the process by the pollution control facility. Item (2) – Refers to water pollution but can apply to water-carried wastes from air pollution control facilities. Submit drawings, which clearly show (a) Point(s) of discharge to receiving stream, and (b) Sewers and process piping to and from the control facility. Item (3) – If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value in dollars reclaimed by sale or reuse of the collected substances. State the cost of reclamation and related expense. Item (4) – State the date which the pollution control facility was first placed in service and operated. If not, explain. Item (5) – This information is essential to the certification and assessment actions. This accounting data must be completed to activate project review prior to certification by this Agency.		
	Sec. F	Self-explanatory. Signature must be a corporate authorized signature.		
		Submit to: Illinois EPA P.O. Box 19276 Springfield, IL 62794-9276	Attention: Al Keller Permit Section Division of Water Pollution Control	Attention: Donald E. Sutton Permit Section Division of Air Pollution Control

Attachment "A"
Process Description

Water from the oily water sewer and the desalter line are first pumped to the API separator tanks.

The two API Separators are designed to take the floatable oil and settleable solids and sludge out of the oily water sewer and desalter / sour water stream.

The rate that the oil rises to the top depends on several factors. The size of the oil droplets matters, as does their gravity, the speed of the water, the temperature of the oil and the water. The depth, width, and length of the API tanks are designed depending on the normal sewer flow rate and the normal characteristics of the oil present in the sewer.

The floating oil is skimmed using a rolling drum and a manually turned trough. The oil is reused, normally through the Coker.

The solids that fall to the bottom are run through a centrifuge where the oil is collected and hauled back to Slop Oil, the solids are sent off site for safe disposal, and the water is drained back to the WWTP.

From the APIs the water flows to the DNF tanks.

Dissolved Nitrogen Flotation (DNF) tanks (two) are designed to remove what would neither float or sink in the APIs.

The particles entrained in the water usually have a negative charge. Like charges repel one another. Coagulating chemical with a positive charge is added. The coagulant neutralizes the negative charge on the particles it contacts. This allows the particles to clump together. A slow mixer encourages contact and prevents settling.

A polymer is added to stick the clumps together, forming larger clumps (floc). It also gathers other particles from the water.

Very fine bubbles of nitrogen are used to make the floc float to the top where they are pushed into a trough, to tankage. The float material is hauled to the centrifuge. Oil, solids and water are spun out, and are handled like the solids from the APIs.

The fine bubbles are made by splashing water into a tank containing nitrogen at about 80# of pressure. The nitrogen is dissolved into the water. The water then flows through a diaphragm into the larger DNF tank where the pressure is lost. The fine bubbles come out of the water and float to the surface. On the way many of the bubbles stick to floc and take it to the surface. The polymer helps the bubbles remain attached to the floc. Thus, Dissolved Nitrogen Flotation.

From the DNFs the water flows to the Equalization Tank.

In the Equalization Tank (EQ Tank) the treated water is mixed with water from the storm tanks which contain storm water and RO reject water from the boiler house. This water is lower in chlorides, ammonia, and most other contaminants, however there is fluoride. The contents of the tank mix so that any slugs of contamination are mixed throughout the tank, minimizing the potential damage done by the slug. Nutrients for the biological treatment are added en-route to this tank and are mixed in well.

From the Equalization Tank the water flows to the biological treatment tanks.

After floating contaminants (oil) and heavier than water contaminants (sludge) have been removed at the API traps, suspended contaminants have been removed in the DAF Unit, the Ph has been adjusted if needed, nutrients added, and mixed with other water in the EQ tank, the water moves to the biological treatment section.

Contaminants in the water are neutralized or removed by biological action. Aerobic reduction means reduction using oxygen. Anaerobic is done without oxygen and is generally undesirable. Septic is another name for sewage treated without oxygen. The nitrifying microbes require higher levels of oxygen than other microbes. The nitrifiers reduce ammonia NH_3 and other nitrogen compounds, forming nitrates NO_3 and nitrites. 2 ppm minimum D.O. (dissolved oxygen) has proven to be very safe for the nitrifiers.

Oxygen is provided by three 700 horsepower blowers. All three are seldom used. Two blowers are required when contaminant levels are high. The microbes are using more oxygen as they consume the high level of food. They are also reproducing as the food is consumed. A higher population requires more oxygen. Fine bubble diffusers distribute the oxygen. There are 4086 diffusers in each tank. The diffusers are supplied with air by a piping grid. A coarse bubble air supply is not as accessible to the bugs, plus the big bubbles rise through the water and out the top quickly

As a new contaminant is introduced, there will be microbes which consume the contaminant. There may be only a small percentage of the microbes which will use the new contaminant for food. At the initial introduction of the contamination, the microbes (bugs) may not keep up. If the water goes off spec, (exceeds permit limits) it may be stored temporarily. As the bugs which are consuming the contaminant multiply, they will become more numerous. They will have no competition for the new contaminant (food), and will increase in number. A bug divides to become two, and can do so as often as every twenty minutes. In one hour a million bugs can become eight million if given oxygen, nutrients, and the food supply. Two hours would find 64 million. When the population is sufficient, the water will be back on spec, and the effluent restarted. The off-spec water can be re-treated. If the contaminant is introduced gradually, the effects will probably not ever be seen. Sudden, large dumps are not handled well, and can be toxic to the bugs.

Amine is a complex molecule of nitrogen, carbon, and hydrogen. The bugs go to work breaking down the molecule. Much of the byproduct is ammonia. When given time the bugs then eat the ammonia. Much of the ammonia is released near the outfall of the tank. If there is only one bug tank in service this ammonia can go to the clarifier and out of the plant without being digested. The same thing can happen when using both bug tanks under certain conditions such as but not limited to: High Flow Rates , Low oxygen level, High food levels (COD/BOD), High amine levels, Insufficient nitrifier numbers, High Temperatures, Microbes stunned by another contaminant.

Nutrients

For good health of the bugs they need nutrients, just like other live organisms. Some micronutrients are gained through the sanitary sewage, and some others are added.

Phosphate.

The main source is our phosphoric acid. The phosphoric acid is purchased and delivered in a semi tanker. This becomes PO₄ or phosphate. The bugs use it for their cellular structure.

Phosphate can also be attained by adding bags of fertilizer, but it should be avoided. The fertilizer does not dissolve completely and settles on the bottom as hazardous waste. A residual phosphate reading over 1 ppm in the clarifier outfall is sufficient.

Ammonia

Ammonia is delivered in bulk by a semi.

The bugs that eat the ammonia convert it to nitrates. We test for nitrates on the daylight shift using a fairly long lab method, and a spectrophotometer. If the final clarifier is high on ammonia and low on nitrates, then the nitrifiers are not doing their job. If the ammonia is high, but the nitrate is also, then the bugs are working, they just didn't have time to get the job done. The consumption of amine also leaves nitrate.

Ammonia is needed in a ratio of 40 to 1 to C.O.D. in the EQ tank. For example, if the COD is 800ppm then the ammonia should be near 20 ppm. It needn't be exactly 40:1. The ammonia is used to reduce the COD, and keep the bugs healthy.

Phosphoric acid is added to the stream as a necessary nutrient. After the biological treatment process phosphate remains in the water. Phosphate is a fertilizer that promotes the growth of algae.

Ammonia is the other added nutrient. Nitrates remain in the water after the breakdown of ammonia. Nitrate is also a fertilizer that encourages the growth of algae. Algae growth causes many problems including several that do not show up at wwtp. Algae in the firepond causes many problems. First it plugs the screens on the firepumps. Algae also causes trouble in the entire firewater system.

In the outfall box and flume algae form strands which are sometimes sucked into the composite sampler, giving a false bad sample (High TSS). The outfall box and flume are now covered to prevent sunshine from reaching the water.

The nutrients also reach the 003 pond by way of firewater usage in the tankfarm, and condensate in the ditches. This algae raises the pH in the pond, and adds TSS. Algae is not a limit, but pH and TSS are limited. Algae shows up as TSS (Total Suspended Solids).

Attachment "B"

To increase and expand the hydraulic capacity of the existing sand (tertiary) filter system at the IRD Waste Water Treatment Plant (WWTP) (so that it matches the capacity of the existing secondary treatment section), two new sand filters were installed. The new sand filters were similar in design to the existing up-flow filters with gravel/sand media.

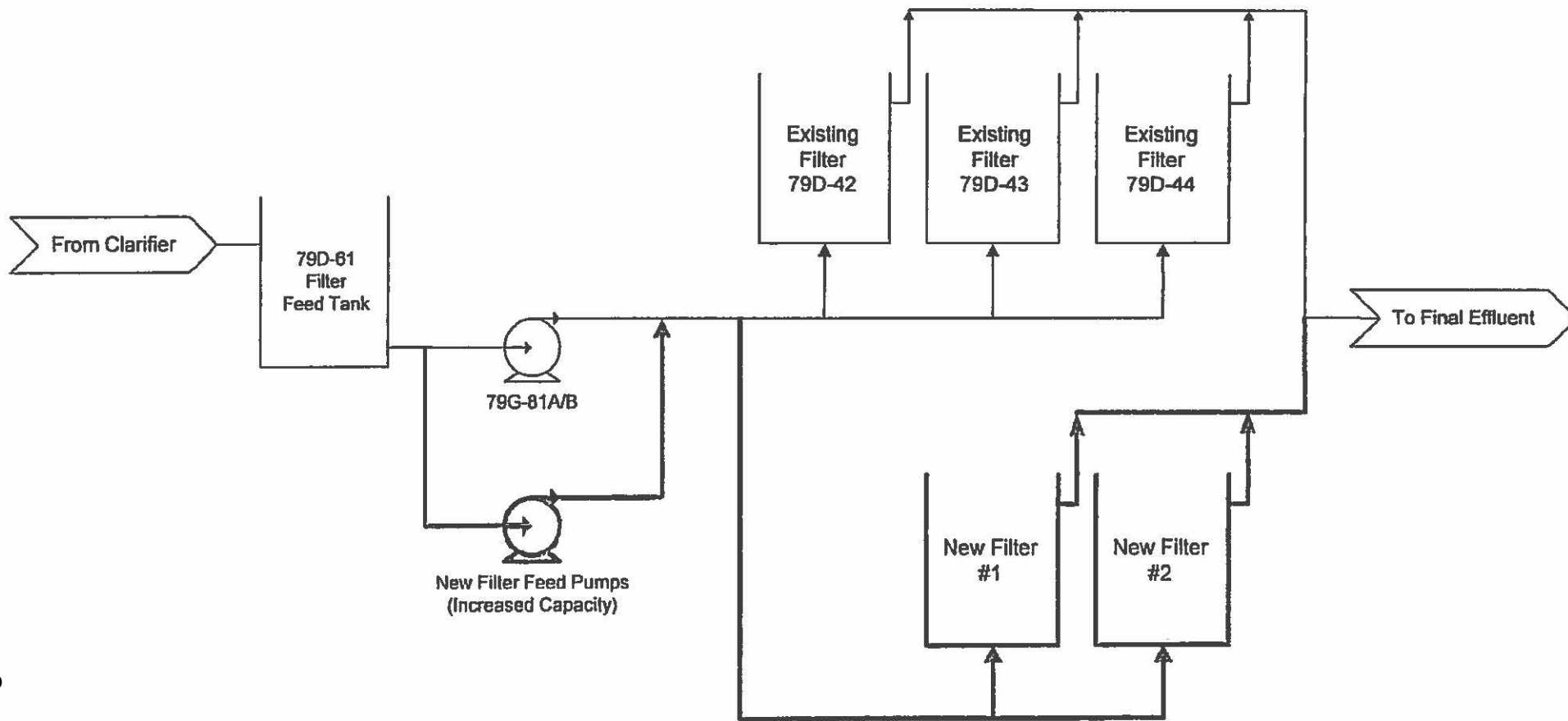
The existing filter buildings were expanded to the south to accommodate the new filters. Two new larger capacity filter pumps were installed (the existing feed pumps will be retained for low flow conditions). Piping and instrumentation associated with new filters and pumps were installed. Electrical was upgraded as needed for the new pumps and building expansion.

This project improved the water processing capacity of the WWTP. The previous sand filter hydraulic capacity (2,400 gpm) was below the design capacity of the secondary treatment system (3,500 gpm) and limited the maximum treatment rate of the WWTP.

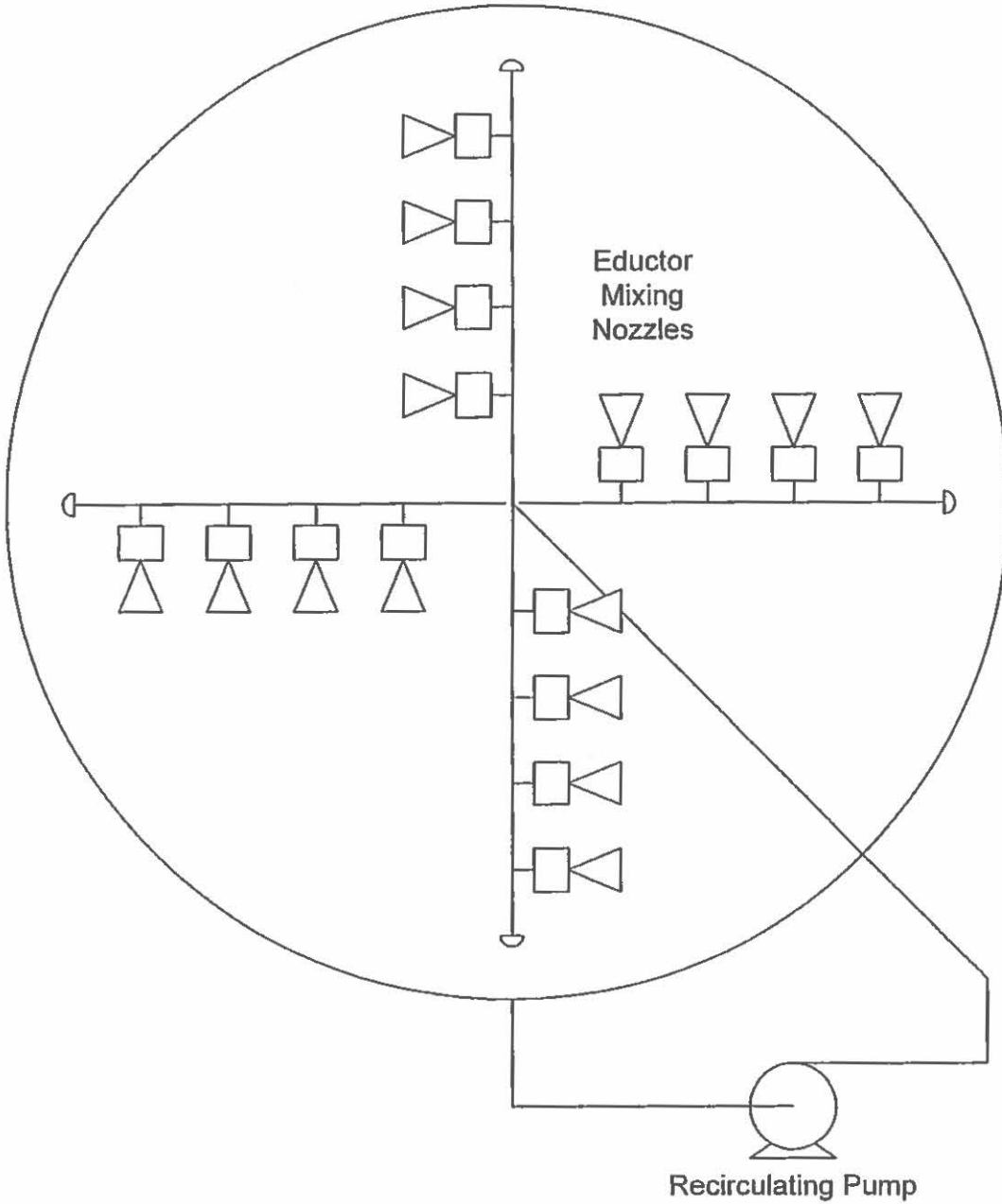
In addition, the new filtering capacity was essential for clarifier outages. When the final clarifier (79D-71) is taken out of service the activated sludge tanks (79D-64 A/B) are operated as Sequential Batch Reactors (SBR). During SBR operation the flow rate through the filters is intermittently greater than during normal operation and the risk of a TSS exceedance of the NPDES permit is much higher.

The installation and addition of the two new sand filters increased the tertiary filter hydraulic capacity to 4,000 gpm. The current hydraulic limit (2,400 gpm) is especially noticeable during rain events when more treated storm water could be released if not limited by sand filter capacity. This expansion increases the storm water treating capacity of the refinery and limits the need for partial bypassing.

EJN 2153 Sand Filter Expansion Process Flow Sketch



Storm Water Storage Tank



EJN 1630 Storm Water Mixers System Diagram

One mixing system installed in each
of the storm water storage tanks.
(3 systems total)



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/782-0610

September 19, 2013

Marathon Petroleum Company, LLC
P.O. Box 1200
Robinson, Illinois 62454

RECEIVED 8/21/2013
ENVIRONMENTAL DEPARTMENT
MARATHON PETROLEUM COMPANY LP
ILLINOIS REFINING DIVISION
ROBINSON, ILLINOIS

Re: Marathon Petroleum Company, LLC
Marathon Petroleum Company, LLC - Robinson Refinery
NPDES Permit No. IL0004073
Modification of NPDES Permit (After Public Notice)

Gentlemen:

The Illinois Environmental Protection Agency has reviewed the request for modification of the above-referenced NPDES Permit and issued a public notice based on that request. The final decision of the Agency is to modify the Permit as follows:

The 30-day average and daily maximum concentration limits for fluoride at outfall 001 have been changed to 4 and 17 mg/L. The respective load limits have been changed to 115 and 486 pounds per day. These changes are pursuant to updated regulations in 35 Ill. Adm. Code 302.208.

Special Conditions 22, 23, and 24 have been removed from the permit.

Enclosed is a copy of the modified Permit. You have the right to appeal this modification to the Illinois Pollution Control Board within a 35 day period following the modification date shown on the first page of the permit.

Should you have any question or comments regarding the above, please contact Mark E. Liska of my staff.

Sincerely,

A handwritten signature in cursive script that reads "Alan Keller".

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:MEL:13052109.daa

Attachment: Final Permit

cc: Records
Compliance Assurance Section
Champaign Region
USEPA
Indiana Dept. of Environmental Management

NPDES Permit No. IL0004073

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: September 30, 2014

Issue Date: September 30, 2009

Effective Date: October 1, 2009

First Modification Date: December 9, 2010

Second Modification Date: May 11, 2012

Third Modification Date: September 19, 2013

Name and Address of Permittee:

Marathon Petroleum Company LP
P.O. Box 1200
Robinson, Illinois 62454

Facility Name and Address:

Marathon Petroleum Company LP - Robinson Refinery
100 Marathon Avenue
Robinson, Illinois 62454
(Crawford County)

Discharge Number and Name:

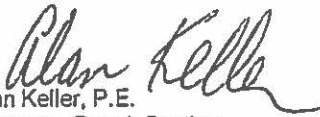
001 - Wastewater Treatment Plant Discharge
002 - Treatment Plant Bypass
003 - East Impoundment Basin Discharge
005 - Coke Rail Car Repair Area Stormwater Runoff
006 - York Pond/North Culvert Outflow Stormwater
007 - Southeast Culvert/North Ditch Run-In Stormwater
008 - Southern Fence Line Stormwater Runoff
009 - Southwest Gate Drainage Culvert/South Culvert Stormwater
010 - Northwest Fence Pipe Outflow Stormwater

Receiving Waters:

Robinson Creek
Marathon Creek
Marathon Creek
Marathon Creek
Robinson Creek
Unnamed Creek tributary to Robinson Creek
Drainage Tile tributary to Marathon Creek
Unnamed Ditch tributary to Robinson Creek
Unnamed Ditch tributary to Robinson Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.


Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:MEL:13052109.daa

NPDES Permit No. IL0004073

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001: Wastewater Treatment Plant Discharge and FCCU Scrubber Wastewater - (DAF = 2.666 MGD)

Outfall 001 consists of Treated Process Wastewater, which includes Coke Railcar Water, Fire Hydrant Flushings, Fire Training Water, Fire Water from Emergency Response Operations, Reverse Osmosis Rejection Water, Boiler and Cooling Tower Blowdown, Treated Sanitary Wastewater, Process Wastewater and Hydrostatic Test Water from Terminals and Pipelines, Stormwater Runoff, Hydrostatic Test Water, Treated Groundwater, and Filter Backwash Water, all treated in the Waste Water Treatment Plant. Discharge is to Robinson Creek. Average proposed discharge is 2.666 MGD; Peak Average Flow is 3.434 MGD.

PARAMETER	LOAD LIMITS lbs/day*** DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE	
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM			
Flow (MGD)	See Special Condition 1				Continuous	Meter	
pH	See Special Condition 2				2/Week	Grab	
Temperature	See Special Condition 8				2/Week	Grab	
BOD ₅	222	573	10	20	2/Week	Composite	
Total Suspended Solids	267	687	12	24	2/Week	Composite	
Chemical Oxygen Demand	9,767	18,821			2/Week	Composite	
Oil & Grease	333	763	15	30	1/Week	Mathematical Composite**	
Phenol (4AAP)		2.9		0.1	2/Week	Composite	
Ammonia as N*							
Spring/Fall	33	163	1.5	5.7	2/Week	Composite	
Summer	33	198	1.5	6.9	2/Week	Composite	
Winter	89	135	4.0	4.7	2/Week	Composite	
Sulfide	7.4	16.5			2/Week	Composite	
Total Chromium*****	9.8	28	1.0	2.0	2/Year	Composite	
Hexavalent Chromium*****	0.24	0.46	0.011	0.016	2/Year	Composite	
Chloride		28,643		1000	2/Week	Composite	
			Monthly Average Minimum	Weekly Average Minimum	Daily Minimum		
Dissolved Oxygen							
March - July		NA		6	5	2/Week	Grab
August - February		5.5		4	3.5	2/Week	Grab

NPDES Permit No. IL0004073

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall 001: Wastewater Treatment Plant Discharge (continued)

PARAMETER	LOAD LIMITS lbs/day*** <u>DAF (DMF)</u>		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Sulfate		46,797****		1,634****	2/Week****	Composite
Mercury			Monitor*****		1/Year	Composite
Fluoride	115	486	4	17	2/month	Composite
Zinc (total)	1.2	8.7	0.055	0.305	2/Year*****	Composite

*For Ammonia as Nitrogen, Spring/Fall is March-May and September-October; Summer is June-August; Winter is November-February. Discharge from Outfall 001 will also be subject to weekly average Ammonia as Nitrogen limits. The Spring/Fall and Summer weekly average limit is 3.8 mg/L (85 lb/day). No weekly average limit applies in Winter months.

**See Special Condition 7.

***See Special Condition 19.

**** See also Special Condition 14.

*****Mercury will be sampled once per year. In the event that only one sample is collected during the calendar year, the Permittee shall report this value as a daily maximum on the January DMR form. Should the Permittee sample more frequently, the Permittee shall report the average value of all results as a monthly average value and the maximum of all results as a daily maximum on the January DMR form.

Total Chromium, Hexavalent Chromium, and Zinc shall be sampled twice per year. In the event that only one sample is collected in the six-month period, the permittee shall report the semiannual value as the daily maximum on the January or July DMR form and this value will be subject only to the daily maximum limit. Should the permittee sample more frequently, the permittee shall report the average value of all results obtained during the six-month period as the monthly average value subject to the monthly average limit and the maximum of all results as a daily maximum subject to the daily maximum limit on the January or July DMR form. If the Hexavalent Chromium concentration(s) is below the detection limit (< 0.01 mg/L), then the load limit shall be calculated using one-half the detection limit as the concentration.

NPDES Permit No. IL0004073

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002: Treatment Plant Bypass - (Intermittent Discharge)

Outfall 002 consists of Process Area Stormwater, Cooling Tower and Boiler Blowdown, Stormwater Impoundments, and Overflow from Wastewater Treatment Plant (Including Process Wastewater). Discharge is to Marathon Creek. See Special Condition 9 regarding Bypass.

PARAMETER	LOAD LIMITS lbs/day**** DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY*	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	See Special Condition 1				1/Day	Estimate
pH	See Special Condition 2				1/Day	Grab
BOD ₅			10	20	1/Day	Grab
Total Suspended Solids			12	24	1/Day	Grab
Oil & Grease			15	30	1/Day	Grab
Ammonia as N**						
Spring/Fall			1.4	5.7	1/Day	Grab
Summer			1.4	6.9	1/Day	Grab
Winter			4.0	4.7	1/Day	Grab
Phenols				0.1	1/Day	Grab
Total Chromium			1.0	2.0	1/Day	Grab
Hexavalent Chromium			0.011	0.016	1/Day	Grab
Chemical Oxygen Demand				Monitor	1/Day	Grab
Chloride				500	1/Day	Grab
Total BETX***				Monitor	1/Day	Grab
Total PNAs***				Monitor	1/Day	Grab

Note: Ammonia, Biochemical Oxygen Demand, Oil and Grease, Total Chromium, Hexavalent Chromium, and Total Suspended Solids shall be sampled once per day during discharge. In the event that only one sample is collected during the month, the Permittee shall report the values as daily maximums on the DMR form and these values will be subject only to the daily maximum limits. Should the Permittee sample more frequently or discharge occurs for more than 24-hours during a month, the Permittee shall report the average value of all results obtained during the month as a monthly average value subject to the monthly average limit and the maximum of all results as a daily maximum subject to the daily maximum limit.

*One sample per day when discharging.

**For Ammonia as Nitrogen, Spring/Fall is March-May and September-October; Summer is June-August; and Winter is November-February. Should discharge occur on two or more days in a seven-day period, weekly average limits for Ammonia as Nitrogen shall apply. The Spring/Fall and Summer weekly average limit is 3.5 mg/L. No weekly average limit applies for Winter.

***For BETX and PNAs, the Permittee shall sample daily when discharging. The Permittee shall report a daily maximum for each month in which discharge occurs. For any month which two or more discharges occur, the Permittee shall report a monthly average on the DMR form. See Special Condition 12.

****See Special Condition 19.

NPDES Permit No. IL0004073

Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 003: East Impoundment Basin Discharge***** - (DAF = 2.631 MGD)

Outfall 003 consists of Hydrostatic Test Water, Coke Railcar Wash Water, Non-Process Area Stormwater, East and West Tank Farm Controlled Stormwater Drainage, Stormwater from Wabash Pond, Non-Emergency Use Firewater, Fire Hydrant Flushings, Fire Water from Emergency Use, Utility Water, and Frog Pond stormwater due to extreme rainfall. Discharge is to Marathon Creek.

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	See Special Condition 1				1/Day	Estimate
pH	See Special Condition 2				1/Day	Grab
Oil & Grease			15	30	1/Day	Mathematical Composite*
Phenol				0.1	1/Day	Composite
Total Chromium			1.0	2.0	1/Day	Composite
Total Organic Carbon****			Monitor		2/Year**	Composite
Ammonia as N***						
Spring/Fall			1.4	5.7	1/Day	Composite
Summer			1.4	6.9	1/Day	Composite
Winter			4.0	4.7	1/Day	Composite
Total Suspended Solids			15	30	2/Year**	Composite
BOD ₅			Monitor		2/Year**	Composite
Chemical Oxygen Demand			Monitor		2/Year**	Composite
Sulfide			Monitor		2/Year**	Composite
Chloride				500	2/Year**	Composite
Fluoride				30	2/Year**	Composite
Sulfate				1,634	2/Year**	Composite

*See Special Condition 7.

**Total Organic Carbon, Total Suspended Solids, Biological Oxygen Demand, Chemical Oxygen Demand, Sulfide, Chloride, Fluoride, and Sulfate shall be sampled twice per year. In the event that only one sample is collected in the six-month period, the Permittee shall report the semiannual value as a daily maximum on the January or July DMR form and this value will be subject only to the daily maximum limit. Should the Permittee sample more frequently, the Permittee shall report the average value of all results obtained during the six-month period as a monthly average value subject to the monthly average limit and the maximum of all results as a daily maximum subject to the daily maximum limit on the January or July DMR form.

***For Ammonia as Nitrogen, Spring/Fall is March-May and September-October; Summer is June-August; and Winter is November-February. Ammonia as Nitrogen is subject to weekly average limits. Spring/Fall and Summer weekly average limit is 3.5 mg/L. For Winter no weekly average limit applies. In the event that only one sample is collected during a month, the Permittee shall report the value as a daily maximum and this value will be subject only to the daily maximum limit. Should the Permittee sample more frequently, the Permittee shall report the average value of all results obtained during the month as a monthly average value subject to the monthly average limit and the maximum of all results as a daily maximum subject to the daily maximum limit.

****See Special Condition 20.

*****See Special Condition 15.

NPDES Permit No. IL0004073
Special Conditions

SPECIAL CONDITION 1. Flow shall be reported in MGD as a daily maximum and a monthly average, and shall be reported on the monthly DMR form.

SPECIAL CONDITION 2. For outfalls 001, and 002, the pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form. For outfall 003, the minimum pH shall be 6.0, but the pH 9.0 maximum limitation may be exceeded if the elevated pH level is caused entirely by algae in treatment lagoons, in which case there is no upper pH limit. This shall be indicated by the permittee in the comment section of the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 4. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 5. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 6. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 20th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 7. Mathematical composites for oil, fats and greases shall consist of a series of grab samples collected over any 24-hour consecutive period. Each sample shall be analyzed separately and the arithmetic mean of all grab samples collected during a 24-hour period shall constitute a mathematical composite. No single grab sample shall exceed a concentration of 75 mg/l.

SPECIAL CONDITION 8. For outfall 001, discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:

- A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

Jan. Feb. Mar. April May June July Aug. Sept. Oct. Nov. Dec.

Page 7

Third Modification Date: September 19, 2013

°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

C. The monthly maximum value shall be reported on the DMR form.

D. Temperature monitoring may be performed manually using a certified portable temperature monitoring device. The Outfall 001 temperature will be monitored on-site at the sampling weir located south of the Sand Filter Building or other representative monitoring location in the event the sampling weir is out of service. In the event the Outfall 001 temperature exceeds the limits in the table, upstream and downstream temperature readings will be monitored at designated locations. The upstream temperatures will be monitored at the bridge north of Carter Lumber, or downstream of the City of Robinson Waste Water Treatment Plant, or other location that is representative of Robinson Creek prior to mixing with Outfall 001. The downstream temperatures will be monitored at the bridge at the Hog Farm east of Route 1, or the Route 1 Highway bridge, or other location that is representative of Robinson Creek and Outfall 001.

SPECIAL CONDITION 9. Discharge Number 002 is an emergency high level bypass. Discharges from this overflow are subject to the following conditions:

(1) Definitions

- (i) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- (ii) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

(2) Bypass not exceeding limitations. The Permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it is for essential maintenance to assure efficient operation. Bypass of WWTP sand filters due to excess hydraulic loading to the sand filters is an acceptable bypass, provided the effluent does not cause effluent limitations to be exceeded. Bypass of WWTP Tank 79D-63 in order to impound off-spec wastewater so as to prevent a negative impact to the activated sludge treatment is an acceptable bypass, provided the effluent does not cause effluent limitations to be exceeded. These bypasses are not subject to the provisions of paragraphs (3) and (4) of this section.

(3) Notice

- (i) Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (ii) Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required in Standard Condition 12(e) of this Permit (24-hour notice). In the event that notice shall be given outside of business hours, the permittee shall contact the Illinois Emergency Management Agency at 800-782-7860.

(4) Prohibition of bypass. Bypass is prohibited, and the IEPA may take enforcement action against a Permittee for bypass, unless:

- (i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (ii) There was no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- (iii) The Permittee submitted notices as required under Standard Condition 12(e) of this Permit.

(5) Emergency Bypass when discharging, shall be monitored daily for parameters listed on Page 3 for outfall 002. The Permittee shall submit the monitoring results on Discharge Monitoring Report forms using one such form for each month in which bypassing occurs. The Permittee shall specify the number of discharges per month and the duration in days of each discharge that occur in the comments section of the DMR form. The Permittee shall report the average and maximum concentration values for the parameters listed on Page 3 for outfall 002 on the DMR form.

SPECIAL CONDITION 10.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.
- B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 180 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented it shall be maintained in accordance with all requirements of this special condition.]
- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
 1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
 2. A site map showing:
 - i. The storm water conveyance and discharge structures;
 - ii. An outline of the storm water drainage areas for each storm water discharge point;
 - iii. Paved areas and buildings;
 - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
 - vi. Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion;
 - viii. Vehicle service areas;
 - ix. Material loading, unloading, and access areas.
 3. A narrative description of the following:
 - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - iv. Industrial storm water discharge treatment facilities;
 - v. Methods of onsite storage and disposal of significant materials;

4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
 6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
 2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
 4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
 5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;
 - ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;
 - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;
 - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.
 7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
 8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential

pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

- H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.
- J. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

Construction Authorization

- K. Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- 1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.
- 2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- 3. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- 4. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- L. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- M. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- N. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

- O. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 11. For outfalls 001, 002, and 003, the Agency has determined that the effluent limitations in this permit constitute

BAT/BCT for storm water for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

SPECIAL CONDITION 12. For the purposes of this permit, Total PNAs is defined as the arithmetic sum of the following polynuclear aromatic compounds: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, Chrysene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, and Pyrene. Total BETX shall be defined as the arithmetic sum of Benzene, Toluene, Ethylbenzene, and Total Xylenes. For the purpose of showing compliance, concentrations found to be below detection shall be considered zero in calculations and will be reported as zero on the DMR form if all concentrations are below the detection limits.

SPECIAL CONDITION 13. The permittee shall prepare a biomonitoring plan for the testing of outfall 001 as outlined in Special Condition 13 and Special Condition 14. The plan must be submitted to the Compliance Assurance Section within forty-five (45) days of the effective date of this permit.

1. Chronic Toxicity - Standard definitive chronic toxicity tests shall be run on Fathead Minnow. Testing must be consistent with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, (Fourth Edition - October 2002) EPA/821-R-02-013. Results shall be reported according to Section 10 of this publication. The selection of an appropriate control for the toxicity tests shall be submitted to IEPA for review and approval prior to use. Unless substitute tests are pre-approved; the following tests are required:
 - a. Fish - Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test.
 - b. Ceriodaphnia Survival and Reproduction Test.
 - c. This test shall be conducted on Waste Water Treatment Plant effluent, tributary to outfall 001, prior to entering the receiving stream and prior to mixing with any other wastewater sources.
2. Testing Frequency - The above tests shall be conducted on a monthly basis for six (6) months after Agency approval of the biomonitoring plan. The permittee shall conduct the test semi-annually thereafter. Tests shall be performed using 24-hour composite effluent samples unless otherwise authorized by the IEPA. Results shall be submitted to IEPA within fifteen (15) days of becoming available to the Permittee. The permittee shall submit results to the following address.

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code 19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Illinois Environmental Protection Agency
Bureau of Water
Attn: Bob Mosher, Water Quality Standards
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

3. Toxicity Assessment - Should the review of the results of the biomonitoring program indicate a significant baseline shift in toxicity, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 14. Untreated FCCU Scrubber Wastewater shall not be discharged to any waters of the state unless a modification to this permit is obtained. Modification under this special condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 15. For the purpose of this permit, the discharge at outfall 003 shall be limited at all times to Hydrostatic Test Water, Coke Railcar Wash Water, Non-Process Area Stormwater, East and West Tank Farm Controlled Stormwater Drainage,

Stormwater from Wabash Pond, Non-Emergency Use Firewater, Fire Hydrant Flushings, Fire Water From Emergency Use, Utility Water, and Frog Pond stormwater due to extreme rainfall. In the event that the permittee must discharge process wastewater or contaminated stormwater runoff into the East Impoundment Basin for temporary storage, there shall be no discharge from outfall 003, and the permittee shall notify the IEPA, Division of Water Pollution Control, Champaign Field Operations Section within 24 hours (or the next business day). The permittee shall notify the Agency on each such occasion.

SPECIAL CONDITION 16. This permit does not authorize the permittee to operate an on-site sludge disposal facility or the land application of sludge on-site. Sludge handling activities are authorized by RCRA permit issued to the permittee.

SPECIAL CONDITION 17. The permittee shall add 300 pounds of powdered activated carbon (PAC) per day at an appropriate point in the WWTP process to address chronic toxicity and comply with outfall 001 limits. The permittee shall maintain a daily log of the amount of PAC injected into the Waste Water Treatment Plant. The amount of PAC may be reduced based upon review of appropriate data and Agency approval.

SPECIAL CONDITION 18. In addition to the other requirements of this permit no effluent shall contain settleable solids, floating debris, visible oil, grease, scum, or sludge solids. Color, odor, and turbidity shall be reduced to below obvious levels.

SPECIAL CONDITION 19.
Storm Water Credit:

An additional mass allowance may be calculated for Outfalls 001 and 002 Load Limitations, for the following parameters, based on 100% of the storm water flow as defined below.

<u>Parameter</u>	<u>Pounds per 1000 gallons of storm water flow</u>	
	<u>Average</u>	<u>Maximum</u>
COD	1.5	3.0
Oil and Grease	0.067*	0.13*
Chromium (total)	0.0018	0.005
BOD ₅	0.22	0.4
Phenolic Compounds	0.0014	0.0029

Dry Weather Flow - The average flow from the API separator for the last three consecutive zero precipitation days. Previously collected storm water shall not be included.

Storm Water Flows - The storm water runoff which is treated in the waste water treatment facility shall be defined as that portion of the flow greater than the dry weather flow.

The quantity of pollutants discharged shall not exceed the quantity determined by multiplying the flow of storm water as determined by the permittee times the concentrations listed in the above table.

The stormwater credit does not authorize the permittee to exceed the concentration limits contained in the Effluent Limitations and Monitoring for outfalls 001 and 002.

In computing monthly average permit limits to include storm water credit, the pound credit calculated above shall be averaged along with the process pound limits over the 30 day period. Explanatory calculations and flow data shall be submitted together with the DMR form. *At no time shall oil and grease exceed 450 lb/day monthly average, 844 lbs/day daily maximum, for Outfall 001.

SPECIAL CONDITION 20. The permittee shall monitor outfall 003 for Total Organic Carbon (TOC) and shall report the daily maximum value and a monthly average if more than one sample is collected in a one-month period. Based upon reported values, the Agency may impose limits on outfall 003 for Total Organic Carbon if necessary.

SPECIAL CONDITION 21. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

Attachment H
Standard Conditions
Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.
- (2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.
- (6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

- (9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:
- Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.
- (10) **Monitoring and records.**
- Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.
 - Records of monitoring information shall include:
 - The date, exact place, and time of sampling or measurements;
 - The individual(s) who performed the sampling or measurements;
 - The date(s) analyses were performed;
 - The individual(s) who performed the analyses;
 - The analytical techniques or methods used; and
 - The results of such analyses.
 - Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.
- (11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.
- Application.** All permit applications shall be signed as follows:
 - For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;
 - For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
 - Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - The authorization is made in writing by a person described in paragraph (a); and
 - The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and
 - The written authorization is submitted to the Agency.
- (c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
- (d) **Certification.** Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:
- 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 person or 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.
- (12) **Reporting requirements.**
- Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or
 - The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).
 - The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
 - Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
 - Transfers.** This permit is not transferable to any person except after notice to the Agency.
 - Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
 - Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - Monitoring results must be reported on a Discharge Monitoring Report (DMR).

- (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- (f) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:
- (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (2) Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.
The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.
- (g) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).
- (h) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.
- (13) **Bypass.**
- (a) **Definitions.**
 - (1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
 - (2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - (b) **Bypass not exceeding limitations.** The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).
 - (c) **Notice.**
 - (1) **Anticipated bypass.** If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
 - (2) **Unanticipated bypass.** The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).
 - (d) **Prohibition of bypass.**
 - (1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:
 - (i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (iii) The permittee submitted notices as required under paragraph (13)(c).
 - (2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).
- (14) **Upset.**
- (a) **Definition.** Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - (b) **Effect of an upset.** An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - (c) **Conditions necessary for a demonstration of upset.** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).
 - (4) The permittee complied with any remedial measures required under paragraph (4).
 - (d) **Burden of proof.** In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- (15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:
- (a) **Transfers by modification.** Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
 - (b) **Automatic transfers.** As an alternative to transfers under paragraph (a), any NPDES permit may be automatically

transferred to a new permittee if:

- (1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - (2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and
 - (3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- (16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
 - (4) The level established by the Agency in this permit.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- (17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
- (a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
- (a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
 - (b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
 - (c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.
- (19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
 - (20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
 - (21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
 - (22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).
 - (23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
 - (24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
 - (25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
 - (26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
 - (27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.
 - (28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.



Ray Brooks
Illinois Refining Division Manager

Marathon Petroleum Company LP

400 South Marathon Ave.
P.O. Box 1200
Robinson, IL 62454
Telephone 618/544-2121

CERTIFIED MAIL – RETURN RECEIPT REQUESTED
CERTIFIED No. 7011 0470 0002 1053 3527

May 23, 2012

Mr. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Re: Marathon Petroleum Company LP
Robinson, Illinois Refinery
NPDES Permit No. IL0004073
Application for Construction or Permit Approval for Sand Filter Expansion

Dear Mr. Keller:

On April 19, 2012, Marathon Petroleum Company LP ("MPC") submitted an Application for Construction or Permit Approval for Sand Filter Expansion ("Application"). Inadvertently, the Application was not signed by an appropriate responsible corporate officer. Pursuant to 35 IAC 309.103(e), a responsible corporate officer for a partnership must be the general partner. In MPC's case, MPC's general partner is MPC Investment LLC. However, at the time the Application was submitted, Don McCord was no longer authorized to act in the capacity of MPC Investment LLC, the general partner of MPC. Therefore, MPC respectfully resubmits the Application certified by an appropriate responsible corporate officer, Ray Brooks.

It is important to note that the only revision to the April 19, 2012 submittal is the signatory.

Should you have any questions about the Application, please contact Janette Smith at 618-544-2121, extension 5336.

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 person or 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.

Sincerely,

Marathon Petroleum Company LP
By: MPC Investments LLC, General Partner



Ray Brooks
Deputy Assistant Secretary

5-23-12
Date Signed

cc: Mr. Mark E. Liska
Permit Engineer
Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Sand Filter Expansion Permit File
Title and Contracts



Marathon Petroleum Company LP

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
CERTIFIED NO. 7011 0470 0002 1053 3473

P.O. Box 1200
400 S. Marathon Avenue
Robinson, IL 62454
Telephone 618/544-2121

April 19, 2012

Mr. Alan Keller, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

**Re: Marathon Petroleum Company LP
Robinson, Illinois Refinery
NPDES Permit No. IL0004073
Application for Construction or Permit Approval for Sand Filter Expansion**

Dear Mr. Keller:

Marathon Petroleum Company LP (MPC) is submitting this application to construct an expansion to the existing sand filters at the MPC Robinson, Illinois refinery. This application requests approval to construct two (2) sand filters in addition to the three (3) existing sand filters (79D-42/43/44). The sand filters serve as the final (tertiary) treatment process before water from the refinery's wastewater treatment plant (WWTP) is released and discharged from the refinery through Outfall 001.

The design capacity of the three existing WWTP sand filters is 800 gpm each or 2,400 gpm total. These sand filters receive water from the secondary clarifier which has a design capacity of 3,500 gpm. The hydraulic limit (2,400 gpm) is especially noticeable during high rainfall events when the water treatment plant must process high volumes of storm water. Filtration capacity is further reduced during the twice weekly backflushing cycle of a filter. During this procedure only two filters are in service, reducing the total filtration capacity to 1,600 gpm.

The addition of two new sand filters will increase the tertiary filter hydraulic capacity to 4,000 gpm. Storm water loads have increased with the addition of the new benzene loading rack and are expected to continue to increase as the facility expands. The current National Pollutant Discharge Elimination System (NPDES) Permit (IL0004073) does allow for a partial bypass of the filters when the clarifier effluent total suspended solids (TSS) are below the permit limits. The proposed sand filter expansion will increase the storm water treating capacity of the refinery and limit the need for partial bypassing.

The additional filtering capacity is essential during a clarifier outage. When the final clarifier (79D-71) is taken out of service, the activated sludge tanks (79D-64A/B) are operated as Sequential Batch Reactors (SBR). During SBR operation, the flow rate through the filters is intermittently greater than during normal operation and the risk of exceeding the TSS limits of the NPDES permit is much higher. This project will not only increase the hydraulic capacity of the sand filters at the refinery's WWTP, but will also lower the refinery's risk of discharging elevated levels of TSS through Outfall 001.

The following are enclosed for your review:

- Application for Permit or Construction Approval - WPC-PS-1
- WPC-PS-1 – Attachment A – Plans and Specifications
- Schedule J – Industrial Treatment Works Construction of Pretreatment Works
- Schedule J – Attachment A – Narrative Description and Waste Flow Diagram
- Schedule J – Attachment B – List of Permits Previously Issued to MPC Illinois Refining Division
- Schedule J – Attachment C – Sand Filter Provisions for Operations during Contingency Periods
- Schedule J – Attachment D – Wastewater Treatment Plant Certified Operators
- Schedule N - Waste Characteristics
- Site Map – Refinery Plot Plan

If you have any questions about this request, please contact Janette Smith at 618-544-2121, extension 5336.

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 person or 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.

Sincerely,

Marathon Petroleum Company LP
By: MPC Investments LLC, General Partner

Don McCord
Don McCord
Deputy Assistant Secretary

April 19, 2012
Date Signed

cc: Mr. Mark E. Liska
Permit Engineer
Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Sand Filter Expansion Permit File
Title and Contracts

Electronic file locations:

Compliance System\Water\Permitting\Sand Filter Expansion\2012 Submittal\

1-Cover Letter-SandFilterConst-MPC-032712.doc

2-WPC-PS-1.pdf

3-WPC-PS-1-AttachmentA.pdf

4-ScheduleJ.pdf

5-ScheduleJ-AttachmentA.docx

6-ScheduleJ-AttachmentA.pptx

7-ScheduleJ-AttachmentB.doc

8-ScheduleJ-AttachmentC-D.doc

9-ScheduleN.pdf

10-Plot Plan_100411.pdf

UPDATED SIGNATORY ONLY
Application for Permit or Construction Approval
- WPC-PS-1



Illinois Environmental Protection Agency
 Permit Section, Division of Water Pollution Control
 P.O. Box 19276
 Springfield, Illinois 62794-9276

For IEPA Use:

**Application for Permit or Construction Approval
 WPC-PS-1**

1. Owner Name: Marathon Petroleum Company LP (MPC)
 Name of Project: Sand Filter Expansion
 Township: Robinson County: Crawford

2. Brief Description of Project:
 Install two new sand filters with a design capacity of 800 GPM each to increase the total sand filter capacity to 4,000 GPM at the refinery's Wastewater Treatment Plant. This expansion will help manage and increase the volume of water treated during large storm events as well as limit the need to partially bypass the sand filters.

3. Documents Being Submitted: If the Project involves any of the items listed below, submit the corresponding schedule, and check the appropriate boxes.

Private Sewer Connection/Extension	<u>Schedule</u> A/B <input type="checkbox"/>	Spray Irrigation	<u>Schedule</u> H <input type="checkbox"/>
Sewer Extension Construct Only	C <input type="checkbox"/>	Septic Tanks	I <input type="checkbox"/>
Sewage Treatment Works	D <input type="checkbox"/>	Industrial Treatment/Pretreatment	J <input checked="" type="checkbox"/>
Excess Flow Treatment	E <input type="checkbox"/>	Waste Characteristics	N <input checked="" type="checkbox"/>
Lift Station/Force Main	F <input type="checkbox"/>	Erosion Control	P <input type="checkbox"/>
Fast Track Service Connection	FTP <input type="checkbox"/>	Trust Disclosure	T <input type="checkbox"/>
Sludge Disposal	G <input type="checkbox"/>		

Plans: Title See "WPC-PS-1 - Attachment A - Preliminary Plans and Specifications"
 No. of Pages: _____

Specifications: Title See "WPC-PS-1 - Attachment A - Preliminary Plans and Specifications" for Sand Filter specifications
 No. of Books/Pages: _____

Other Documents: Process Flow Diagram: "WPC-PS-1 - Attachment A - Preliminary Plans and Specifications"
 (Please Specify)

3.1 Illinois Historic Preservation Agency approval letter: Yes No
 4. Land Trust: Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? Yes No
 If yes, Schedule T (Trust Disclosure) must be completed and item number 7.1.1 must be signed by a beneficiary, trustee or trust officer.

5. This is an Application for (Check Appropriate Line):
 A. Joint Construction and Operating Permit
 B. Authorization to Construct (See Instructions) NPDES Permit No. IL00 04073
 C. Construct Only Permit (Does Not Include Operations)
 D. Operate Only Permit (Does Not Include Construction)

6. Certifications and Approval:

6.1 Certificate by Design Engineer (When required: refer to instructions)

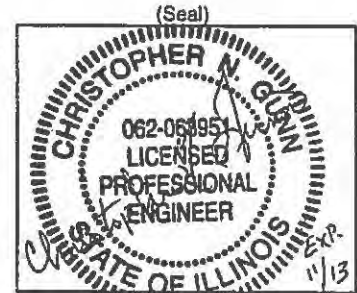
I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction. **

Engineer Name: Christopher N. Gunn

Registration Number: 062 - 063951
(3 digits) (6 digits)

Firm: TRC Environmental Corp.

Address: 230 West Monroe Street, Suite 2370



** This seal applies to the permit application. See plans for design engineer's seal.

City: Chicago State: IL Zip: 60606 Phone No: (312) 578-0870

Signature X Christopher N. Gunn Date: 05/14/2012

7. Certifications and Approvals for Permits:

7.1 Certificate by Applicant(s)

I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board. I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

7.1.1 Name of Applicant for Permit to Construct: Marathon Petroleum Company LP (MPC)

By: MPC Investments LLC, General Partner

Address: 100 Marathon Avenue, P.O. Box 1200

City: Robinson State: IL Zip Code: 62454

Signature X Ray Brooks Date: 5-23-12

Printed Name: Ray Brooks Phone No: (618) 544-2121

Title: Deputy Assistant Secretary

Organization: Marathon Petroleum Company LP, Illinois Refining Division

7.1.2 Name of Applicant for Permit to Own and Operate: Marathon Petroleum Company LP (MPC)

By: MPC Investments LLC, General Partner

Address: 100 Marathon Avenue, P.O. Box 1200

City: Robinson State: IL Zip Code: 62454

Signature X Ray Brooks Date: 5-23-12

Printed Name: Ray Brooks Phone No: (618) 544-2121

Title: Deputy Assistant Secretary, Marathon Petroleum Company LP, Illinois Refining Division

7.2 Attested (Required When Applicant Is a Unit of Government)

Signature X _____ Date: _____

Title: _____
(City Clerk, Village Clerk, Sanitary District Clerk, Etc.)

7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed by a principal executive officer of at least the level of vice president, or a duly authorized representative.

7.4 Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one): **Not Applicable**

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction of facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Signature X _____ Date: _____

Printed Name: _____ Phone No: _____

Title: _____

7.4.1 Additional Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

- 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction facilities that are the subject of this application.
- 3. Not applicable

Name and location of sewer system to which this project will be tributary:

Sewer System Owner: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Signature X _____ Date: _____

Printed Name: _____ Phone No: _____

Title: _____

7.5 Certificate By Waste Treatment Works Owner

I hereby certify that (Please check one):

- 1. The waste treatment plant to which this project will be tributary has adequate reserve capacity to treat the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or
- 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.
- 3. Not applicable

I also certify that, if applicable, the industrial waste discharges described in the application are capable of being treated by the treatment works.

Name of Waste Treatment Works: Robinson Refinery WWTP

Waste Treatment Works Owner: Marathon Petroleum Company LP (MPC), By: MPC Investments LLC, General Partner

Address: 100 Marathon Avenue, P.O. Box 1200

City: Robinson State: IL Zip Code: 62454

Signature X *Ray Brooks* Date: 5-23-12

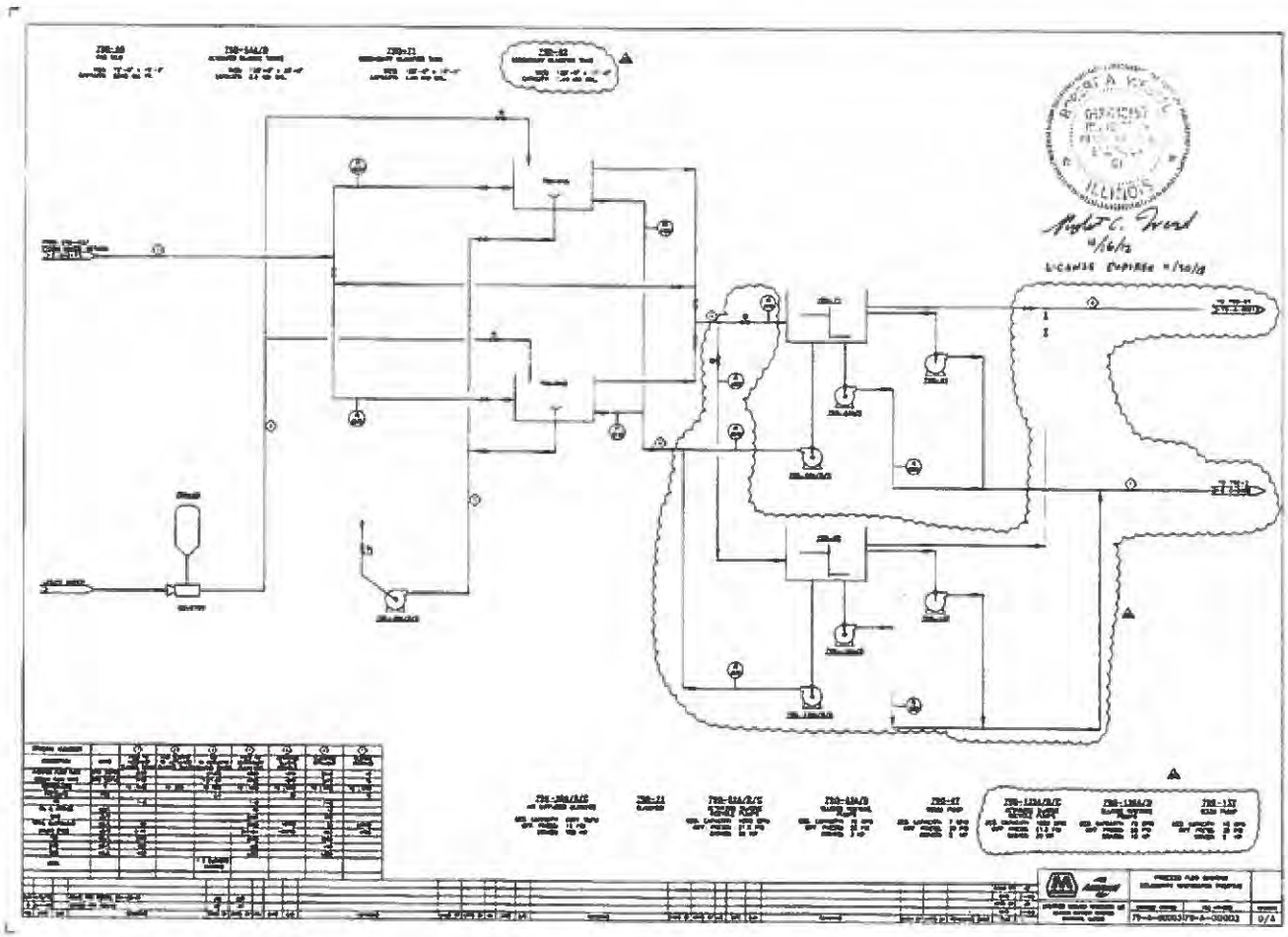
Printed Name: Ray Brooks Phone No: (618) 544-2121

Title: Deputy Assistant Secretary, Marathon Petroleum Company LP, Illinois Refining Division

Please return completed form to the following address:

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
P.O. Box 19276
Springfield, Illinois 62794-9276

**WPC-PS-1 – Attachment A –
Plans and Specifications**

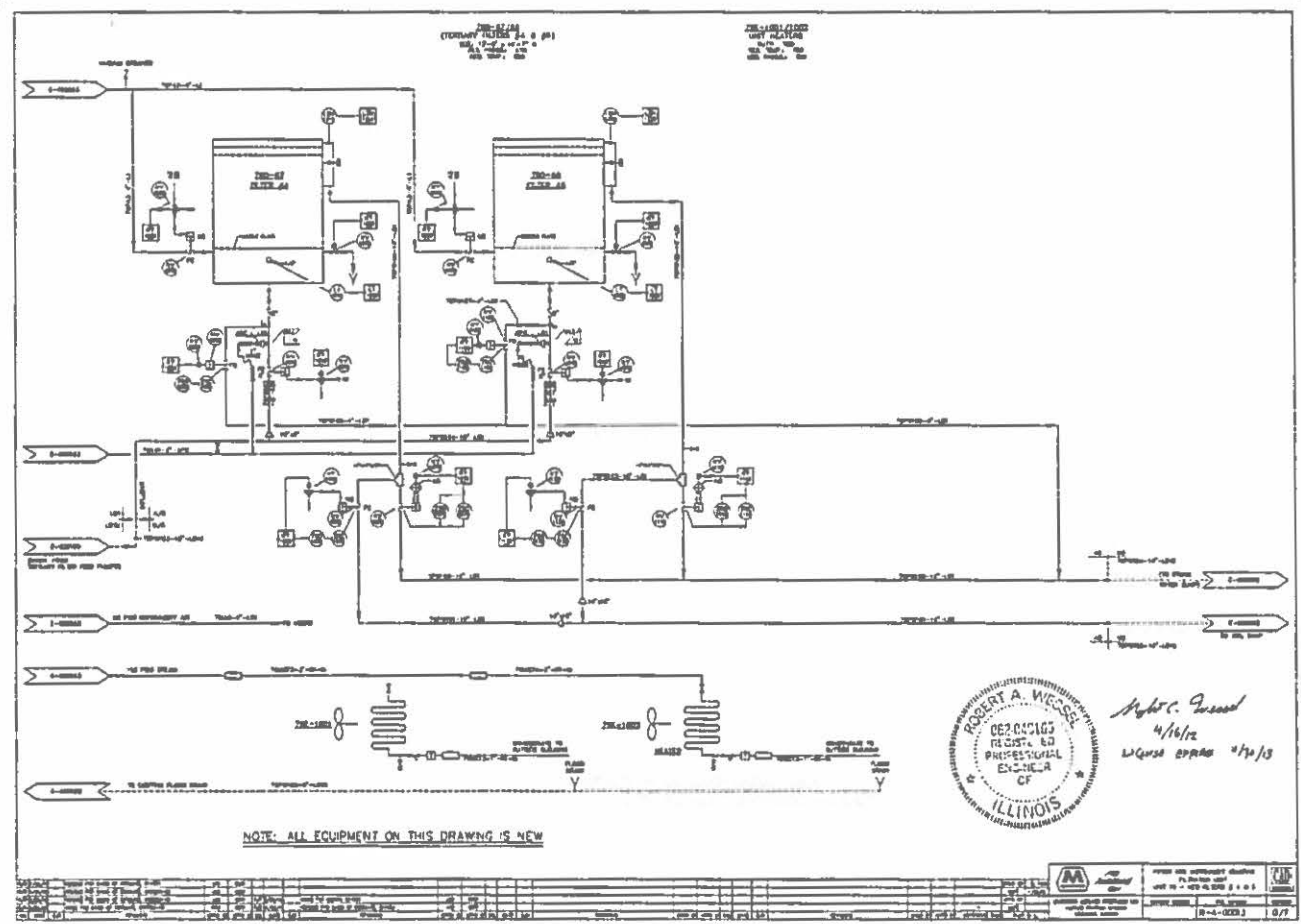


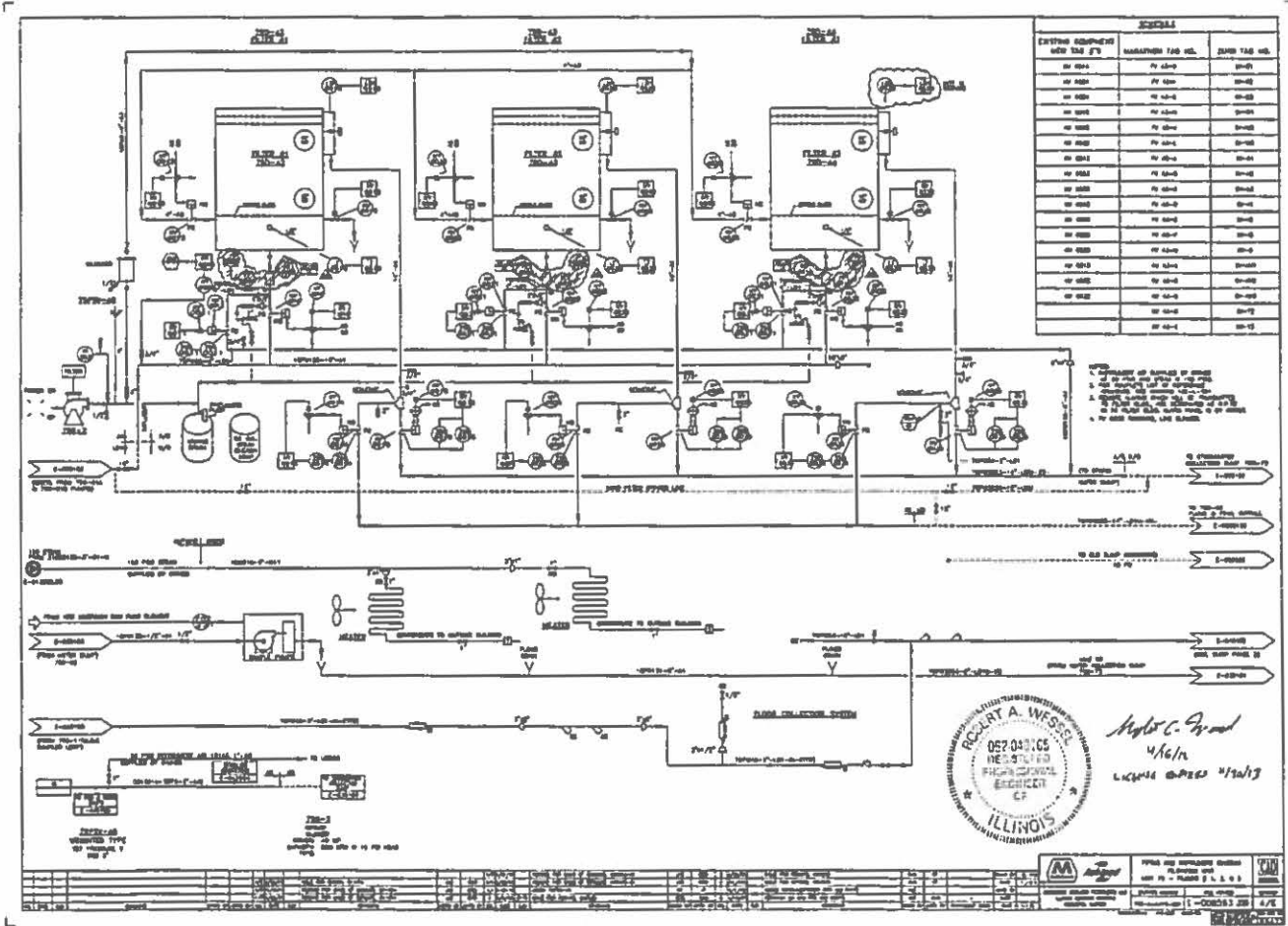
Part Number	Description	Quantity	Notes
78-11A-1	Relay	1	
78-11A-2	Relay	1	
78-11A-3	Relay	1	
78-11A-4	Relay	1	
78-11A-5	Relay	1	
78-11A-6	Relay	1	
78-11A-7	Relay	1	
78-11A-8	Relay	1	
78-11A-9	Relay	1	
78-11A-10	Relay	1	
78-11A-11	Relay	1	
78-11A-12	Relay	1	
78-11A-13	Relay	1	
78-11A-14	Relay	1	
78-11A-15	Relay	1	
78-11A-16	Relay	1	
78-11A-17	Relay	1	
78-11A-18	Relay	1	
78-11A-19	Relay	1	
78-11A-20	Relay	1	
78-11A-21	Relay	1	
78-11A-22	Relay	1	
78-11A-23	Relay	1	
78-11A-24	Relay	1	
78-11A-25	Relay	1	
78-11A-26	Relay	1	
78-11A-27	Relay	1	
78-11A-28	Relay	1	
78-11A-29	Relay	1	
78-11A-30	Relay	1	
78-11A-31	Relay	1	
78-11A-32	Relay	1	
78-11A-33	Relay	1	
78-11A-34	Relay	1	
78-11A-35	Relay	1	
78-11A-36	Relay	1	
78-11A-37	Relay	1	
78-11A-38	Relay	1	
78-11A-39	Relay	1	
78-11A-40	Relay	1	
78-11A-41	Relay	1	
78-11A-42	Relay	1	
78-11A-43	Relay	1	
78-11A-44	Relay	1	
78-11A-45	Relay	1	
78-11A-46	Relay	1	
78-11A-47	Relay	1	
78-11A-48	Relay	1	
78-11A-49	Relay	1	
78-11A-50	Relay	1	
78-11A-51	Relay	1	
78-11A-52	Relay	1	
78-11A-53	Relay	1	
78-11A-54	Relay	1	
78-11A-55	Relay	1	
78-11A-56	Relay	1	
78-11A-57	Relay	1	
78-11A-58	Relay	1	
78-11A-59	Relay	1	
78-11A-60	Relay	1	
78-11A-61	Relay	1	
78-11A-62	Relay	1	
78-11A-63	Relay	1	
78-11A-64	Relay	1	
78-11A-65	Relay	1	
78-11A-66	Relay	1	
78-11A-67	Relay	1	
78-11A-68	Relay	1	
78-11A-69	Relay	1	
78-11A-70	Relay	1	
78-11A-71	Relay	1	
78-11A-72	Relay	1	
78-11A-73	Relay	1	
78-11A-74	Relay	1	
78-11A-75	Relay	1	
78-11A-76	Relay	1	
78-11A-77	Relay	1	
78-11A-78	Relay	1	
78-11A-79	Relay	1	
78-11A-80	Relay	1	
78-11A-81	Relay	1	
78-11A-82	Relay	1	
78-11A-83	Relay	1	
78-11A-84	Relay	1	
78-11A-85	Relay	1	
78-11A-86	Relay	1	
78-11A-87	Relay	1	
78-11A-88	Relay	1	
78-11A-89	Relay	1	
78-11A-90	Relay	1	
78-11A-91	Relay	1	
78-11A-92	Relay	1	
78-11A-93	Relay	1	
78-11A-94	Relay	1	
78-11A-95	Relay	1	
78-11A-96	Relay	1	
78-11A-97	Relay	1	
78-11A-98	Relay	1	
78-11A-99	Relay	1	
78-11A-100	Relay	1	

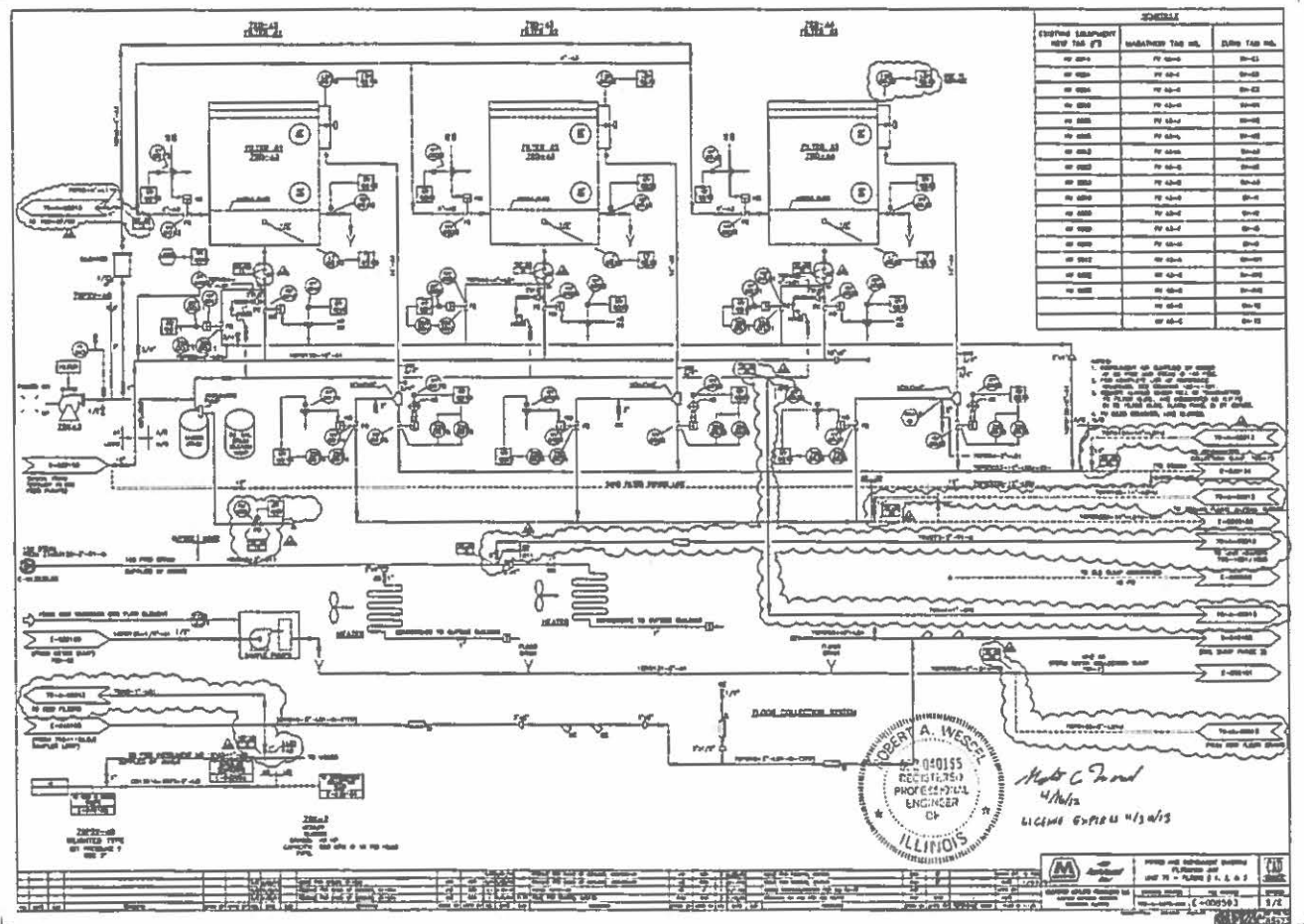
78-11A-101
78-11A-102
78-11A-103
78-11A-104
78-11A-105
78-11A-106
78-11A-107
78-11A-108
78-11A-109
78-11A-110
78-11A-111
78-11A-112
78-11A-113
78-11A-114
78-11A-115
78-11A-116
78-11A-117
78-11A-118
78-11A-119
78-11A-120
78-11A-121
78-11A-122
78-11A-123
78-11A-124
78-11A-125
78-11A-126
78-11A-127
78-11A-128
78-11A-129
78-11A-130
78-11A-131
78-11A-132
78-11A-133
78-11A-134
78-11A-135
78-11A-136
78-11A-137
78-11A-138
78-11A-139
78-11A-140
78-11A-141
78-11A-142
78-11A-143
78-11A-144
78-11A-145
78-11A-146
78-11A-147
78-11A-148
78-11A-149
78-11A-150
78-11A-151
78-11A-152
78-11A-153
78-11A-154
78-11A-155
78-11A-156
78-11A-157
78-11A-158
78-11A-159
78-11A-160
78-11A-161
78-11A-162
78-11A-163
78-11A-164
78-11A-165
78-11A-166
78-11A-167
78-11A-168
78-11A-169
78-11A-170
78-11A-171
78-11A-172
78-11A-173
78-11A-174
78-11A-175
78-11A-176
78-11A-177
78-11A-178
78-11A-179
78-11A-180
78-11A-181
78-11A-182
78-11A-183
78-11A-184
78-11A-185
78-11A-186
78-11A-187
78-11A-188
78-11A-189
78-11A-190
78-11A-191
78-11A-192
78-11A-193
78-11A-194
78-11A-195
78-11A-196
78-11A-197
78-11A-198
78-11A-199
78-11A-200

WILLIAMS & KENTON
ELECTRICAL ENGINEERS
1100 N. 10TH ST.
MILWAUKEE, WIS. 53233
TELEPHONE: 442-1200
FACSIMILE: 442-1200

PROJECT: PCB CONTROL SYSTEM
DRAWING NO.: 78-11A-10
DATE: 12/12/17
BY: R.C.F.





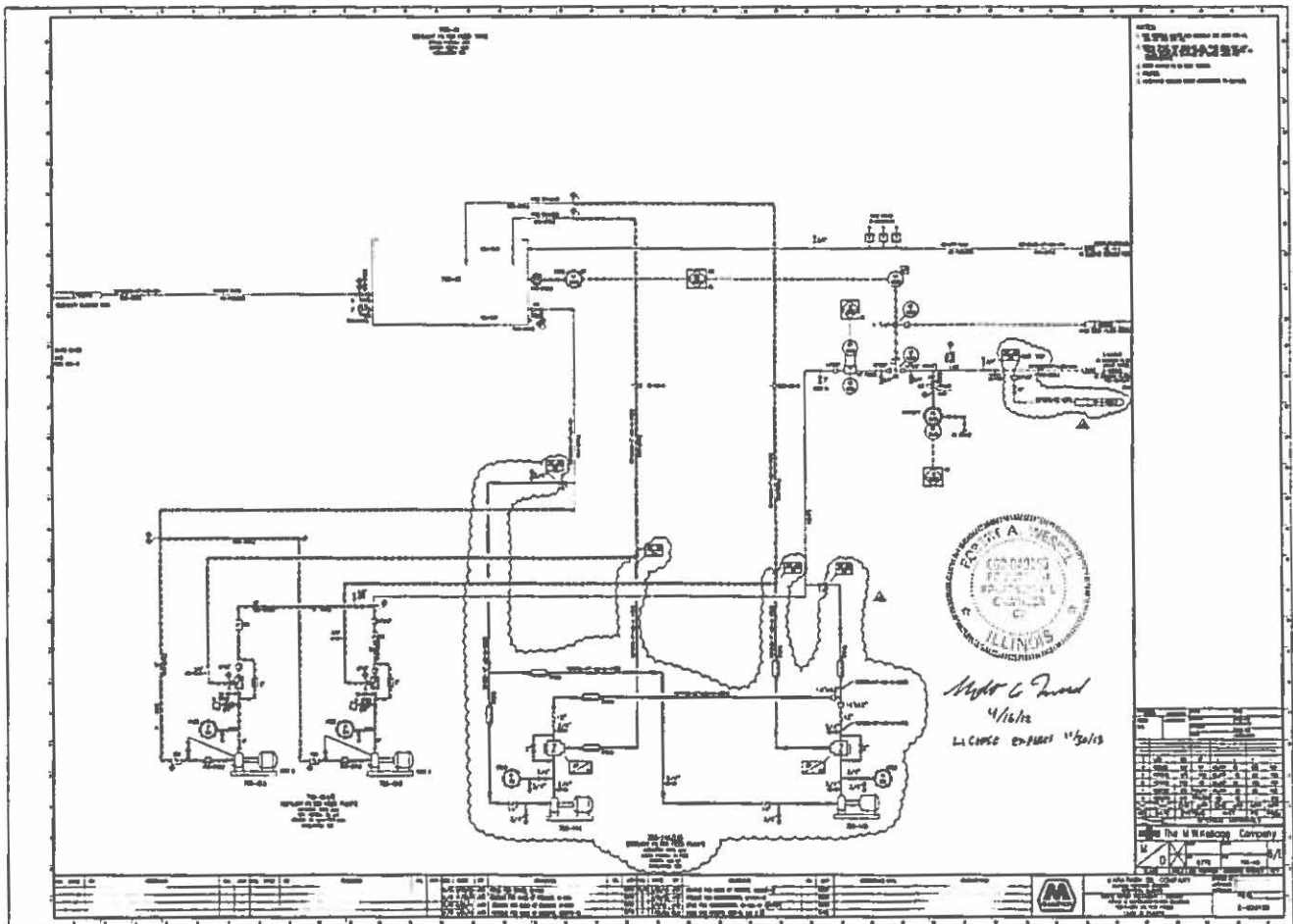


SCHEDULE		
EQUIPMENT DESCRIPTION	MANUFACTURER TAG NO.	DATE TAG NO.
100-001	100-001	10-01
100-002	100-002	10-02
100-003	100-003	10-03
100-004	100-004	10-04
100-005	100-005	10-05
100-006	100-006	10-06
100-007	100-007	10-07
100-008	100-008	10-08
100-009	100-009	10-09
100-010	100-010	10-10
100-011	100-011	10-11
100-012	100-012	10-12
100-013	100-013	10-13
100-014	100-014	10-14
100-015	100-015	10-15
100-016	100-016	10-16
100-017	100-017	10-17
100-018	100-018	10-18
100-019	100-019	10-19
100-020	100-020	10-20
100-021	100-021	10-21
100-022	100-022	10-22
100-023	100-023	10-23
100-024	100-024	10-24
100-025	100-025	10-25
100-026	100-026	10-26
100-027	100-027	10-27
100-028	100-028	10-28
100-029	100-029	10-29
100-030	100-030	10-30
100-031	100-031	10-31

ROBERT A. WESZEL
 202 040155
 REGISTERED
 PROFESSIONAL
 ENGINEER
 CH
 ILLINOIS

Robert C. Ford
 4/10/12
 LICENSE 062014 4/10/12

NO.	DESCRIPTION	DATE	BY	REVISION
1	ISSUED FOR PERMIT	12/12/17	RAW	
2	REVISED TO ADD COMMENTS	12/12/17	RAW	
3	REVISED TO ADD COMMENTS	12/12/17	RAW	
4	REVISED TO ADD COMMENTS	12/12/17	RAW	
5	REVISED TO ADD COMMENTS	12/12/17	RAW	
6	REVISED TO ADD COMMENTS	12/12/17	RAW	
7	REVISED TO ADD COMMENTS	12/12/17	RAW	
8	REVISED TO ADD COMMENTS	12/12/17	RAW	
9	REVISED TO ADD COMMENTS	12/12/17	RAW	
10	REVISED TO ADD COMMENTS	12/12/17	RAW	
11	REVISED TO ADD COMMENTS	12/12/17	RAW	
12	REVISED TO ADD COMMENTS	12/12/17	RAW	
13	REVISED TO ADD COMMENTS	12/12/17	RAW	
14	REVISED TO ADD COMMENTS	12/12/17	RAW	
15	REVISED TO ADD COMMENTS	12/12/17	RAW	
16	REVISED TO ADD COMMENTS	12/12/17	RAW	
17	REVISED TO ADD COMMENTS	12/12/17	RAW	
18	REVISED TO ADD COMMENTS	12/12/17	RAW	
19	REVISED TO ADD COMMENTS	12/12/17	RAW	
20	REVISED TO ADD COMMENTS	12/12/17	RAW	



**Schedule J – Industrial Treatment Works
Construction of Pretreatment Works**

FOR IEPA USE:
LOG #
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION

Springfield, Illinois 62706

SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1. NAME AND LOCATION:

1.1 Name of project Sand Filter Expansion

1.2 Plant Location

1.2.1 SW 1/4 35 7N 12W 2ND
 Quarter Section Section Township Range P.M.

1.2.2 Latitude 39 deg. 00 min. 58 sec. "NORTH

1.2.3 Longitude -87 deg. 42 min. 30 sec. "WEST

1.2.3 Name of USGS Quadrangle Map (7.5 or 15 minute) Hutsonville

2. NARRATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM: (see instructions)

See Schedule J - Attachment A

2.1 PRINCIPAL PRODUCTS:

Filtered wastewater tributary to Outfall 001

2.2 PRINCIPAL RAW MATERIALS:

Sludge trapped on the sand filter that is backwashed and reused within the wastewater treatment plant

3. DESCRIPTION OF TREATMENT FACILITIES: See Schedule J - Attachment A & WPC-PS-1 - Attachment A

3.1 Submit a flow diagram through all treatment units showing size, volumes, detention times, organic loadings, surface settling rate, weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of monitoring systems.

3.2 Waste Treatment Works is: Batch , Continuous , No. of Batches/day _____ , No. of Shifts/day _____

3.3 Submit plans and specifications for proposed construction.

3.4 Discharge is: Existing ; Will begin on _____ .

4. DIRECT DISCHARGE IS TO: Receiving Stream Municipal Sanitary Sewer Municipal storm or municipal combined sewer

If receiving stream or storm sewer are indicated complete the following:
 Name of receiving stream Marathon Creek ; tributary to Robinson Creek ;
 tributary to Sugar Creek ; tributary to _____ ;

5. Is the treatment works subject to flooding? Yes No If so, what is the maximum flood elevation of record (in reference to the treatment works datum) and what provisions have been made to eliminate the flooding hazard?

6. APPROXIMATE TIME SCHEDULE: Estimated construction schedule:

Start of Construction 08/01/12 ; Date of Completion 12/31/12
 Operation Schedule 01/01/13 ; Date Operation Begins 01/01/13
 100% design load to be reached by year 2013 .

7. DESIGN LOADINGS

7.1 Design population equivalent (one population equivalent is 100 gallons of wastewater per day, containing 0.17 pounds of BOD₅ and 0.20 pounds of suspended solids;
 BOD 5,440 ; Suspended Solids 6,400 ; Flow 32,000 .

7.2 Design Average Flow Rate 3.2 MGD.

- 7.3 Design Maximum Flow Rate 4.5 MGD.
- 7.4 Design Minimum Flow Rate N/A MGD.
- 7.5 Minimum 7-day, 10-year low flow 1.4 cfs 0.91 MGD.
Minimum 7-day, 10-year flow obtained from www.sws.UIC.edu/data
- 7.6 Dilution Ratio 0.45 ; _____.

8. **FLOW TO TREATMENT WORKS** (if existing):

- 8.1 Flow (last 12 months)
 - 8.1.1 Average Flow 2.258 MGD
 - 8.1.2 Maximum Flow 4.531 MGD
- 8.2 Equipment used in determining above flows

9. Has a preliminary engineering report for this project been submitted to this Agency for Approval?

Yes No . If so, when was it submitted and approved. Date Submitted _____
Certification # _____
Dated _____

10. List Permits previously issued for the facility:

See Schedule J - Attachment B

11. Describe provisions for operation during contingencies such as power failures, flooding, peak loads, equipment failure, maintenance shut downs and other emergencies.

See Schedule J - Attachment C

12. Complete and submit Schedule G if sludge disposal will be required by this facility.

13. **WASTE CHARACTERISTICS:** Schedule N must be submitted.

14. **TREATMENT WORKS OPERATOR CERTIFICATION:** List names and certification numbers of certified operators:

See Schedule J - Attachment D

**Schedule J – Attachment A – Narrative Description
and Waste Flow Diagram**

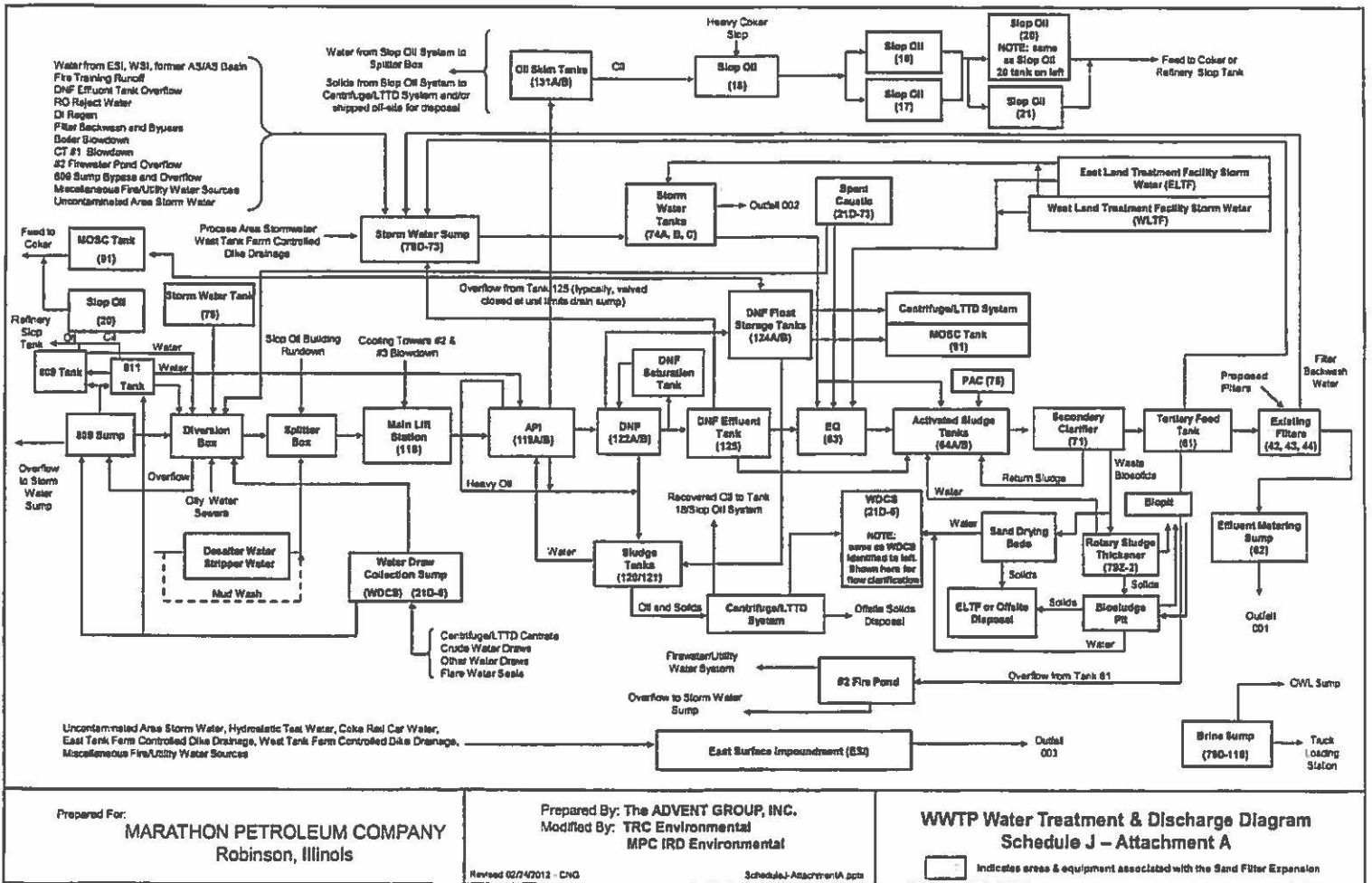
Schedule J – Attachment A

Narrative Description

Marathon Petroleum Company LP (MPC) is submitting this application to construct an expansion to the existing sand filters at the MPC Robinson, Illinois refinery. This application requests approval to construct two (2) sand filters in addition to the three (3) existing sand filters (79D-42/43/44). The sand filters serve as the final (tertiary) treatment process before water from the refinery's wastewater treatment plant (WWTP) is released and discharged from the refinery through Outfall 001.

The design capacity of the three existing WWTP sand filters is 800 gpm each or 2,400 gpm total. These sand filters receive water from the secondary clarifier which has a design capacity of 3,500 gpm. The hydraulic limit (2,400 gpm) is especially noticeable during high rainfall events when the water treatment plant must process high volumes of storm water. Filtration capacity is further reduced during the twice weekly backflushing cycle of a filter. During this procedure only two filters are in service, reducing the total filtration capacity to 1,600 gpm.

The addition of two new sand filters will increase the tertiary filter hydraulic capacity to 4,000 gpm. Storm water loads have increased with the addition of the new benzene loading rack and are expected to continue to increase as the facility expands. The current National Pollutant Discharge Elimination System (NPDES) Permit (IL00004073) does allow for a partial bypass of the filters when the clarifier effluent total suspended solids (TSS) are below the permit limits. The proposed sand filter expansion will increase the storm water treating capacity of the refinery and limit the need for partial bypassing.



Prepared For:
MARATHON PETROLEUM COMPANY
 Robinson, Illinois

Prepared By: The ADVENT GROUP, INC.
 Modified By: TRC Environmental
 MPC IRD Environmental

WWTP Water Treatment & Discharge Diagram
Schedule J - Attachment A

Revised 02/24/2012 - CNG

Schedule J-Attachment A.dgn

Indicates areas & equipment associated with the Sand Filter Expansion

**Schedule J – Attachment B – List of Permits
Previously Issued to MPC Illinois Refining Division**

Marathon Petroleum Company LP				
MPC IRD Environmental Permit List	Document No.: 1806	Revision Date: 3/28/2012		Page 1 of 6
	Revision No.: 16	Effective Date: 3/28/2012		
	Document Custodian: Environmental	Next Revision Date: 3/28/2015		
	Records Retention: Information – Reference (No more than Active)			

*Permits w/strike through have been withdrawn from the IEPA or designated Agency or are in the process of being cancelled.

Refinery				
Permit #	Permit Type	Unit	Date Issued	Date Expired
7777707600-1.1	POTW	MSTLSD permit for discharging brine and wastewater (modified)	2/1/2012	12/31/2014
B1002071	Open Burn	2010 Open Burning	05/12/2010	05/12/2011
IL0004073	NPDES	NPDES Permit	9/30/2009	9/30/2014
LRL-2006-1553-sew	Joint	Discharge of fill material in York pond under NWP #13 and #33	12/12/2006	3/18/2008
04020049	Construction	Fluorescent Light Bulb Crusher	2/25/2004	NA
96010007	Operating	Clean Air Act Title V Permit	11/24/2003	11/24/2008
B-56-M-32	Operating	RCRA Part B Class 3 Modification	11/14/2003	
ILD005476882	Operating	Refinery RCRA Part B Permit	11/16/2007 – issued date 12/21/2007 – effective date	12/21/2017

Other Areas				
Permit #	Permit Type	Unit	Date Issued	Date Expired
04060025	Construction	(Garage) Submerged Loading for Existing Gas Tank (31D-2)	8/16/2004	NA

Area I				
Permit #	Permit Type	Unit	Date Issued	Date Expired
11070024	Construction	Portable Diesel Engines for the Coker Unit (Water Pump Maintenance)	7/14/2011	N/A
10120022	Construction	Coker Capacity Increase Project	12/29/2010	N/A
09010030	Construction	Stripped Naphtha to the NHT Project	1/20/2009	NA
08120036	Construction	Crude Unit 2009 Turnaround Project	1/16/2009	NA
07050063	Construction	Coke Drum Automatic Unheading Valve Project	8/1/2007	NA
07030086	Construction	Crude Unit Cooling Project	10/22/2007	NA
06060063	Construction	Crude Unit Transmix Project	10/2/2007	NA
06010021	Construction	90K-101 Compressor Maintenance	4/9/2006	NA
05090027	Construction	Coker Blowdown Recovery Project	10/12/2005	NA
04100042	Construction	Water Pump Diesel Generators	11/7/2005	NA
03100030	Joint	Temporary Diesel Engines	10/23/2003	12/31/2003
03050074	Joint	Stripped Wastewater Cooler	9/9/2009	NA
02060050	Joint	Diesel Engines	9/23/2002	11/30/2002
01090064	Construction	Crude Asset Reliability Project	11/6/2006	NA
99030079	Joint	Coke Crushing	6/16/1999	NA
97050062	Construction	Ultraformer Vent Gas Adsorber	6/2/1997	NA

MPC IRD Environmental Permit List	Doc. No. 1806	Rev No. 16	Page 2 of 6
-----------------------------------	---------------	------------	-------------

Area I				
Permit #	Permit Type	Unit	Date Issued	Date Expired
96090097	Operating	Vacuum Off Gas Scrubber	11/7/1996	11/7/2001
96080079	Construction	Crude Atmospheric Heater	2/24/1997	NA
96060105	Construction	Vacuum Off Gas Scrubber	7/9/1996	NA
72140562	Operating	Ultrafiner Unit	8/18/1995	8/18/2000
72140548	Operating	Special Coker Unit	7/15/1994	7/31/1996
72140546	Operating	No. 2 Crude Unit & Expansion	11/23/1993	3/31/1997
72140563	Operating	Regular Coker Unit	4/20/1993	10/1/1997
72140547	Operating	Merex Treaters: Kerosene	5/19/1992	4/30/1997
72140546	Operating	No. 2 Crude Unit & Expansion	4/9/1992	3/31/1997
72140560	Operating	Ultraformer Unit	8/20/1991	7/31/1996
72140548	Operating	Thermal Cracking Unit	2/6/1991	11/30/1996

Area II				
Permit #	Permit Type	Unit	Date Issued	Date Expired
7777707600-1.1	POTW	MSTLSD permit for discharging brine and wastewater (modified)	2/1/2012	12/31/2014
07040058	Construction	2007 FCC Unit Revamp	11/16/2009	NA
08060018	Construction	MSAT2 Unit Project	4/9/2009	NA
7777707600-4	POTW	MSTLSD permit for discharging FCCU Brine (reissued)	1/1/2009	12/31/2014
08090026	Construction	Replacement Caustic Tanks Project	10/29/2008	NA
06100065	Construction	Vent Gas Recovery Project	11/6/2006	NA
06050001	Construction	NAAQS and COS Removal Projects	5/18/2006	NA
77777076-00	NPDES	FCCU Brine Discharge to Metropolitan St. Louis Sewer District	12/15/2005	12/31/2008
04090082	Construction	Alkylation Unit Piping Addition	11/18/2004	NA
04060085	Construction	Sewer Upgrade Project	8/31/2004	NA
04050018	Construction	FCCU Slurry Cooler	5/24/2004	NA
02110028	Construction	FCCU Turnaround	12/3/2002	NA
99020080	Operating	FCCU Flue Gas Scrubber	5/23/2002	11/14/2006
99020080	Construction	FCCU Flue Gas Scrubber	6/30/2009	NA
93090020	Construction	Desalter Water Stripper (Revised)	7/30/2001	NA
72140546	Operating	Unit 17 Crude Oil Processing	7/30/2001	7/30/2006
92020048	Joint	Amine Regeneration Unit	10/31/2001	NA
90090026	Operating	MTBE Unit	9/22/1995	9/22/2000
84120056	Operating	Saturate Gas Plant #2	7/15/1994	7/15/1999
75050142	Operating	FCCU	2/23/1999	11/30/2000
72111524	Operating	Alky-Merox Treating Unit	9/29/1994	4/26/1999
72140564	Operating	Penex Feed Splitter	5/25/1993	5/25/1998
72140559	Operating	No. 1 Saturate Gas Plant	2/1/1992	6/16/1997
72140555	Operating	HF Alkylation Unit	9/24/1991	8/31/1996

Area III				
Permit #	Permit Type	Unit	Date Issued	Date Expired
10010055	Construction	Penex Replacement Valves Project	8/16/2010	N/A
09070035	Construction	MSAT2 Benzene Credits Project	8/13/2009	NA
08120030	Construction	Temporary Sulfur Storage Project	12/22/2008	NA

MPC IRD Environmental Permit List	Doc. No. 1806	Rev No. 16	Page 3 of 6
-----------------------------------	---------------	------------	-------------

Area III				
Permit #	Permit Type	Unit	Date Issued	Date Expired
08020023	Construction	Penex and Unicracker Spring 2008 T/A Project	2/20/2008	NA
07100065	Construction	NHT Charge Pump Replacement	10/22/2007	NA
07070032	Construction	Platformer 2008 Turnaround	8/27/2007	NA
06020038	Construction	Unicracker Jumper Line	2/22/2006	NA
04090083	Construction	Unicracker Component Replacement	11/18/2004	NA
04060085	Construction	Sewer Upgrade Project	8/31/2004	NA
04060068	Construction	Platformer CCR Vent Scrubber Project	8/31/2004	NA
04030045	Construction	Ultra Low Sulfur Diesel Project	5/17/2004	NA
03080007	Construction	Penex Isomerization Unit Modification	8/21/2003	NA
03060001	Construction	Unicracker Operational Changes	6/19/2003	NA
02090015	Construction	Platformer Turnaround	6/29/2004	NA
02060064	Joint	Penex Charge Heater 77F-1	7/11/2002	7/11/2007
01050067	Joint	Thermal Oxidizer (now part of GDU)	6/11/2001	NA
98030141	Joint	Unicracker Charge Valve Replacement	6/26/1998	NA
97030120	Construction	16F-3 Burner Replacement	3/25/1997	NA
96120040	Construction	Platformer Heater 16F-3 Burners	5/19/1997	NA
93090020	Construction	Sour Water Stripper	11/23/1993	NA
92010023	Operating	Sulfur Plant I and II (now part of GDU permit)	3/28/1994	2/28/1998
92010023	Construction	Sulfur Plants I and II	4/27/1992	NA
91100093	Operating	Distillate Hydrotreater	3/25/1994	2/28/1998
91100093	Construction	Distillate Hydrotreater	2/18/1992	NA
91110002	Operating	Sour Water Plant	9/30/1993	11/30/1996
82020033	Operating	Naphtha Hydrotreater & Platformer	12/27/1994	12/27/1999
C8005034	PSD Construction	Platformer	10/16/1980	NA
73110050	Operating	ISOM Penex Unit	10/01/1994	1/20/2000
72110566	Operating	Unicracker Unit	10/8/1991	9/30/1996
72110554	Operating	Hydrogen Plant	5/19/1992	4/30/1997

Area IV				
Permit #	Permit Type	Unit	Date Issued	Date Expired
11070043	Construction	Portable Diesel Engines for Air Compressor Maintenance	7/27/2011	N/A
11050050	Construction	GDU Replacement Valves Project	6/14/2011	N/A
07010063	Construction	LSR to GDU	2/1/2007	NA
03040035	Joint	Light Non Aqueous Phase Liquid Recovery System	6/11/2003	NA
03030085	Construction	Gasoline Desulfurization Unit (GDU)	10/18/2007	NA
2003-EB-3095	Joint	Additional process wastewater stream from GDU	5/20/2003	
99120040	Joint	Temporary Emergency Generator	12/20/1999	12/31/2000
81040084	Operating	#3 Cooling Tower	8/18/1995	8/18/2000
72111291	Operating	Utilities Unit	12/6/1993	5/31/1997

MPC IRD Environmental Permit List	Doc. No. 1806	Rev No. 16	Page 4 of 6
-----------------------------------	---------------	------------	-------------

Area V				
Permit #	Permit Type	Unit	Date Issued	Date Expired
DS2012008	Joint	York Pond Dam – ID Number IL50635 (small size Class II dam)	1/20/2012	NA
10110023	Construction	Portable Emission Control System	11/23/2010	N/A
10020043	Construction	Supplemental Natural Gas for Existing Flares	3/11/2010	NA
IL0004073	NPDES	Reissued NPDES permit	9/30/2009	9/30/2014
ILR10L444	NPDES	Notice of Coverage under Construction Storm Water General Permit – MSAT2	07/08/2009	TBD
ILR006739	NPDES	Notice of Coverage under Industrial Site Activity Storm Water General Permit – LPG Rail Car Storage Area	7/08/2009	NA
ILR10L088	NPDES	Notice of Coverage under Construction Storm Water General Permit – Sulfur Solidification trench	3/20/2009	TBD
ILR10J830	NPDES	Notice of Coverage under Construction Storm Water General Permit – LPG Railcar storage area	7/10/2008	NOT filed NOT received 7/10/2009
06030062	Construction	Tank 21D-811	4/24/2006	NA
ILR10F358	NPDES	Tank 21D-811	5/11/2006	NA
2006-EN-0294	Joint	Tank 21D-811	4/21/2006	3/31/2011
ILR10D391	NPDES	Notice of Coverage under Const. Storm Water General Permit – GDU Paving Project	6/24/2005	NOT filed NOT received 11/4/05
05070028	Construction	Centrifuge (for Tank Cleaning Operations)	8/18/2011	NA
05040061	Construction	Storage Tote (for NACE Corrosion Inhibitor – Tolad 249)	4/28/2005	NA
05030107	Construction	Replacement Roof for Tank 21D-21	4/29/2005	NA
05030032	Construction	Replacement Roof (Tank 21D-800)	5/12/2005	NA
ILR10C532	NPDES	Notice of Coverage under Const. Storm Water General Permit – Coke Car Cleaning Area Improvements	3/10/2005 – SWPPP certification notification issued 6/3/05	NOT filed NOT received 11/4/05
05010047	Construction	External Floating Roof for Existing Tank 21D-952	2/7/2005	NA
IL0004073	Clarification memo	FCCU Scrubber Brine Storage or Discharge	12/28/2004	
04110047	Construction	Wastewater Sludge Treatment Operations (Biosolids Belt Filter Press)	12/20/2004	NA
2004-EB-2647	Joint	Addition of Biosolids Holding Tanks	12/17/2004	
ILR10B396	NPDES	Notice of Coverage under Const. Storm Water General Permit – Coke Fines Controls Phase A	NOI Revision issued 11/5/04; permit issued 11/16/04	NOT filed
04090073	Construction	Replacement Diesel Storage Tank 24D-5	10/28/2004	NA
04070032	Construction	NACE Corrosion Inhibitor Tank (21D-39)	7/27/2004	NA
04060057	Construction	External Floating Roof for Existing	7/14/2004	NA

MPC IRD Environmental Permit List	Doc. No. 1806	Rev No. 16	Page 5 of 6
-----------------------------------	---------------	------------	-------------

Area V				
Permit #	Permit Type	Unit	Date Issued	Date Expired
		Tank 21D-2001		
ILR10A387	NPDES	Notice of Coverage under Construction Storm Water General Permit—Tank Dikes Phase 3	5/20/2004	NOT filed
2004-EB-0199	Joint	Belt Filter Press & Additional Biosolids Storage Units	2/11/2004	
04010046	Construction	Biosolids Treatment Operation	2/9/2004	NA
ILR108472	NPDES	Notice of Coverage under Const. Storm Water General Permit—ETLF berm modifications	5/30/2003	NOT filed
ILR107994	NPDES	Notice of Coverage under Const. Storm Water General Permit—CAMU berm modifications	4/1/2003	NOT filed
ILR107702	NPDES	Notice of Coverage under Const. Storm Water General Permit—GDU	3/31/2003	NOT filed
RCRA B	RCRA	RCRA Part B Permit Request for Approval to Place Remediation Waste On West LTF CAMU	3/27/2003	
03010010	Joint	Low Temperature Thermal Desorption System	7/22/2011	NA
2002-EN-2732	Joint	Centrifuge and Thermal Desorption Units	12/20/2002	
02120040	Joint	Centrifuge Dewatering System	12/18/2002	NA
01120036	Construction	Internal Floating Roofs	1/8/2002	NA
2001-EN-4870	Joint	Modification to existing WW Treatment System – Upgrade of Primary Treatment section	12/31/2001	
01100018	Joint	Waste Water Treatment Plant	11/18/2002	NA
01030009	Joint	Propylene Loading	3/23/2001	NA
B9903106	Open Burn	Open Burning	4/12/1999	4/13/2000
98080067	Joint	Slop Tank Vapor Combustor	3/5/2002	NA
1998-EN-2007	Construction	Modification to WWTP	10/5/1998	
72110557	Operating	Refinery Flare System	6/24/1998	6/22/2003
1998-EN-0514	Joint	Rotary Screen Thickener	6/10/1998	
92100082	Operating	WWTP-DAF Tank 210-91 (MOSC Tank 21D-91)	5/8/1998	5/8/2003
72110561	Operating	WWTP—TVP for in-ground API	3/18/1997	1/26/1999
1993-EN-2569-1	Construction	Replacement of West Impoundment	6/7/1996	
72110556	Operating	Hydrocarbon Storage	9/18/1995	9/18/2000
80040007	Operating	60 Petroleum Storage Tanks	2/1/1994	3/4/1999
1993-EN-3512	Construction	Lab Stormwater Pond	9/1/1993	
1993-EN-3848	Construction	Package Sewage Waste Treatment	7/27/1993	
1993-EN-3848	Construction	Package Sewer Treatment Plant	7/27/1993	
1993-EN-2569	Construction	Replacement of West Impoundment by Tanks 79D-74A and 79D-74B	4/22/1993	
77110034	Operating	Crude Oil Tank 2006	12/31/1992	12/24/1997
75100096	Operating	Tanks 1031, 1032, 2005	12/31/1992	12/24/1997
1992-EN-4281	Construction	Filter Press	6/5/1992	
1992-EN-0081	Joint	Tanks 79D-64A and 64B replacing AS pond	5/29/1992	NA
91110003	Construction	New #6 Flare	12/11/1991	NA

MPC IRD Environmental Permit List	Doc. No. 1806	Rev No. 16	Page 6 of 6
-----------------------------------	---------------	------------	-------------

Area V				
Permit #	Permit Type	Unit	Date Issued	Date Expired
91100094	Construction	Tanks 21D-1029, 21D-1030	12/5/1991	NA
90090027	Construction	Tanks 71D-1, 71D-2 and 21D-914	10/23/1990	NA
90080032	Construction	Storage Tank 21D-1027	8/30/1990	NA
IL0004073	NPDES	NPDES Permit Modification— Outfall 003, Special Condition 9, Biemonitoring	3/31/1989	8/1/1991
88050020	Construction	New 45 Tank	5/27/1988	NA
IL0004073	NPDES	NPDES Permit	9/30/1986	8/1/1991
86080066	Construction	Secondary Seals on 7 Storage Tanks	9/17/1986	NA
85040026	Construction	Tank 800	5/20/1985	NA
84090050	Construction	Storage Tank 1033	10/10/1984	NA
83040065	Construction	Hydrocarbon Storage Tank 733	4/27/1983	NA
82080012	Construction	Hydrocarbon Storage Tanks 801, 808, 815, 817, 818, 1019	10/26/1982	NA
2012-EN-0138	Construction	Construction of Sludge Dewatering Equipment (Geotubes)	2/28/2012	NA

NA – Not applicable. Air construction or joint permits in the state of Illinois do not expire.

REVISION HISTORY

Revision Number	Description of Change	Written by	Approved by	Revision Date	Effective Date
5	Entered new permits, etc.	Wendy Robinson	Wendy Robinson	9/14/2008	9/14/2008
5	Setting up for HES Standard	Carla Midgett	Alan Mayo	1/21/2009	1/21/2009
6	Updating for recent air permits	Wendy Robinson	Wendy Robinson	5/1/2009	5/1/2009
7	Updating for recent air permits	Wendy Robinson	Wendy Robinson	7/23/2009	7/23/2009
8	Updating for recent air permit and NPDES permit	Wendy Gram	Alan Mayo	1/19/2010	1/19/2010
9	Updated for recent air permits	Wendy Gram	Jerri Titsworth	6/17/2010	6/17/2010
10	Updated for current construction stormwater permits	Carolyn Griffith	Jerri Titsworth	7/13/2010	7/13/2010
11	Updated for NPDES permit issuance and expiration dates.	Carolyn Griffith	Jerri Titsworth	8/10/2010	8/10/2010
12	Updated for recent air permits and changed the company name.	Wendy Gram	Jerri Titsworth	6/30/2011	6/30/2011
13	Updated the permit date for the RCRA part B, LTTD, and tank cleaning centrifuge permits, added portable diesel engine permits in Areas 1 & 4	Carolyn Griffith	Jerri Titsworth	09/02/2011	09/02/2011
14	Added expiration date for NPDES permit modification issued 3/31/1989	Carolyn Griffith	Jerri Titsworth	10/24/2011	10/24/2011
15	Added updated dates and number for MSTLSD permit for brine and wastewater; added IDNR permit for York Dam	Carolyn Griffith	Jerri Titsworth	2/28/2012	2/28/2012
16	Added Geotube construction permit	Janette Smith	Jerri Titsworth	3/28/2012	3/28/2012

**Schedule J – Attachment C – Sand Filter Provisions
for Operations during Contingency Periods**

Schedule J - Attachment C

Provision for Operations During Contingency Periods

Electrical Outages

During an electrical outage or filter outage, the current NPDES Permit (IL00004073) allows for a partial bypass of the filters when the clarifier effluent TSS is below the permit limits.

Flooding

Similar to an electric outage, the current NPDES Permit (IL00004073) allows for a partial bypass of the filters when the clarifier effluent TSS is below the permit limits.

Peak Loads

This project will limit the effect of peak loads as it will expand the hydraulic capacity of the existing sand filters. The proposed filtration capacity is 4,000 gpm which will be greater than 3,500 gpm capacity of the final clarifier directly upstream.

Equipment Failure

The proposed sand filter system will utilize five separate filter units. While one unit is inoperable because of failure or maintenance (e.g. backwashing), the other four units can handle approximately 90% of the maximum flow from the final clarifier (i.e. 3,200 gpm of the 3,500 gpm maximum capacity of the clarifier).

Shutdowns

During a complete shutdown of the sand filters, rental equipment will be utilized to provide tertiary treatment of water passing through the Wastewater Treatment Plant prior to discharge through Outfall 001.

**Schedule J – Attachment D – Wastewater Treatment
Plant Certified Operators**

Schedule J - Attachment D

Waste Water Treatment Plant Certified Operators

G2481A
MARATHON PETROLEUM-ROBINSON REF

Operation Level Required Class K Facility Specific

MARATHON PETROLEUM COMPANY LLC
POST OFFICE BOX 1200
ROBINSON IL 62454

Updated: 9/20/2011

Facility Phone Number: (618) 544-2121
Facility Email:

if SSN column has a "*" in it the individual has requested that a random number be assigned instead of using their SSN.

Operator	SSN	Responsibility	Certification Level	Termination Date (If Applicable)
Atteberry, Steve J. 3639 N. 1150th Street Flat Rock IL 62427	XXX-XX-2264	Chief Operator	Class K Facility Specific & Class 2	
Cordes, Steve L. R.R.4, Box 154 Lawrenceville IL 62439	XXX-XX-6088	Operator	Class K Facility Specific	
Coulter, Douglas D. 601 S. Range St. Oblong IL 62449	XXX-XX-3869	Operator	Class K Facility Specific	
Dix, David G. 5267 E. 900th Ave. Robinson IL 62454	XXX-XX-4652	Foreman/Operator	Class K Facility Specific	
Greathouse, Richard D. 3142 E. 1050th Ave. Oblong IL 62449	XXX-XX-0776	Operator	Class K Facility Specific	
Harbison, Kathryn B. 1505 N. Fairway Dr. Robinson IL 62454	XXX-XX-2288	Operator	Class K Facility Specific	
Hardiman, Darwin L. 1228 North Mulberry Lane Vincennes, IN 47591	XXX-XX-4040	Foreman/Operator	Class K Facility Specific	
Midgett, Leslie S. 501 W. Walnut Robinson IL 62454	XXX-XX-8706	Chief Operator	Class K Facility Specific	
Purcell, Donnie M. 300 E. Franklin St. Palestine IL 62451	*	Operator	Class K Facility Specific	
Spencer, Scott D. R.R. 1, Box 387A Lawrenceville IL 62439	*	Operator	Class K Facility Specific	
Tewell, Russell B. 9274 E. 900th Ave. Robinson IL 62454	XXX-XX-3044	Operator	Class K Facility Specific	
Thompson, Nancy L. 2700 W 650 N Fairland IN 46126	*	Operator	Class K Facility Specific	
Titsworth, Jerri L. 12563 N. St. Hwy. 1 Robinson IL 62454	XXX-XX-7657	Operator	Class K Facility Specific	
Chapman, Leslie 8313 N. 1000th St. Robinson IL 62454	*	Operator	Uncertified	
Dayhuff, Randy P. O. Box 32 Riley IN 47871	*	Operator	Uncertified	
McGuire, Michael 614 N. 9th St. Vincennes IN 47591	*	Operator	Uncertified	
Rains, Timothy 17250 N. 1150th St. Hutsonville IL 62433	XXX-XX-6963	Operator	Uncertified	
Smolinski, Michael 202 E Pine Robinson IL 62454	*	Operator	Uncertified	
Woodworth, Deanna 11845 E 1150th Ave. Robinson IL 62454	*	Operator	Uncertified	

Schedule N - Waste Characteristics

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

For IEPA Use:
LOG #
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62794-9276

SCHEDULE N WASTE CHARACTERISTICS

1. Name of Project Sand Filter Expansion

2. FLOW DATA	EXISTING	PROPOSED-DESIGN
2.1 Average Flow (gpd)	<u>2.258 MGD</u> for existing WWTP	<u>No change</u>
2.2 Maximum Daily Flow (gpd)	<u>4.531 MGD</u> for existing WWTP	<u>No change</u>

2.3 TEMPERATURE

Time of Year	Avg. Intake Temp. F	Avg. Effluent Temp. F	Max. Intake Temp. F	Max. Effluent Temp. F	Max. Temp. Outside Mixing Zone F
SUMMER	<u>X</u>	<u>82.6</u>	<u>X</u>	<u>X</u>	<u>X</u>
WINTER	<u>X</u>	<u>68.8</u>	<u>X</u>	<u>X</u>	<u>X</u>

2.4 Minimum 7-day, 10-year flow: 1.4 cfs 0.91 MGD.

2.5 Dilution Ratio: 0.45 ;

2.6 Stream flow rate at time of sampling NA cfs NA MGD.

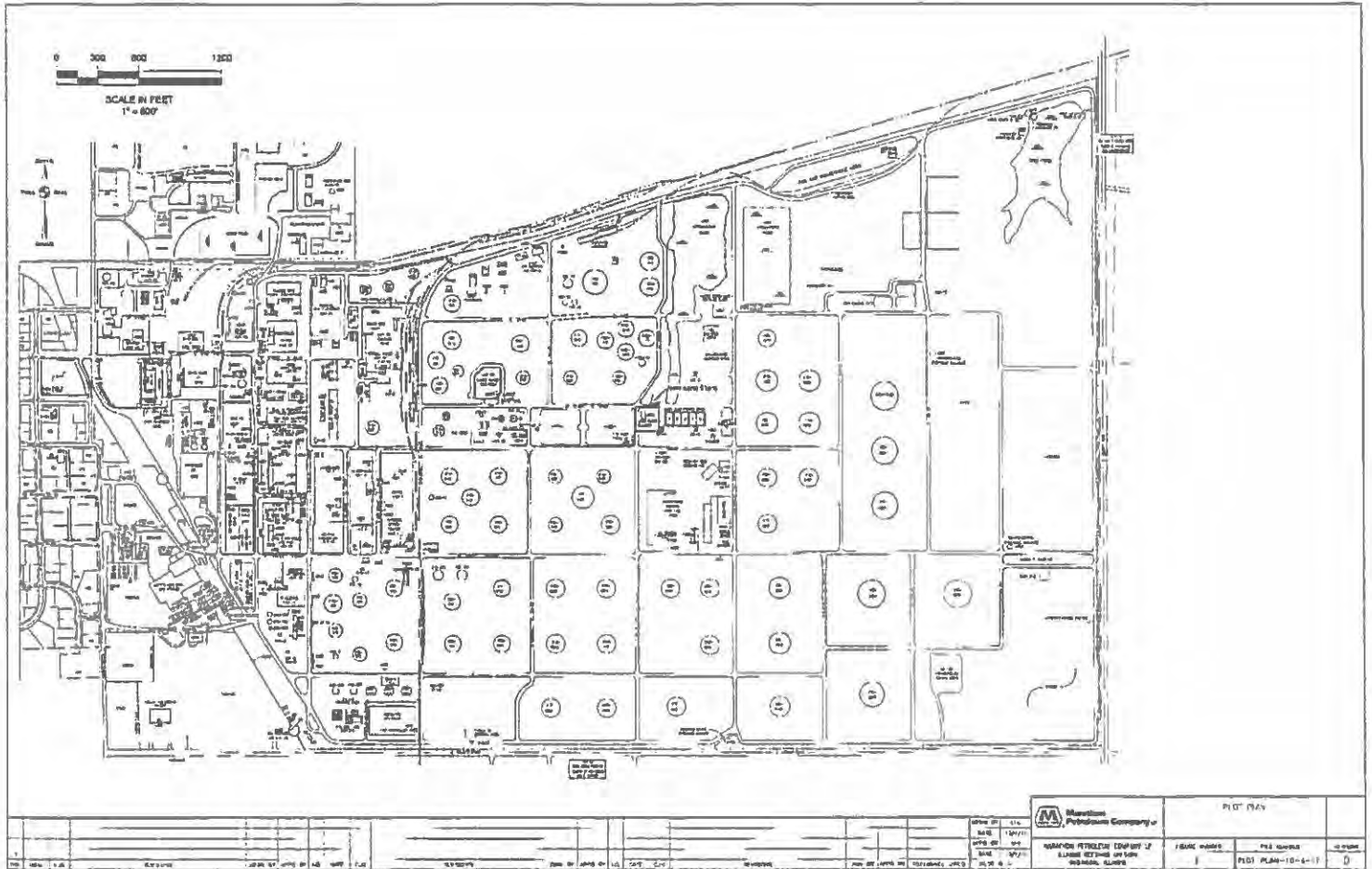
3. CHEMICAL CONSTITUENT Existing Permitted Conditions ; Existing conditions ; Proposed Permitted Conditions

Type of sample: grab (time of collection _____); composite (Number of samples per day 2 per week (see instructions for analyses required) **Chemical analysis from February 2011 through January 2012
Raw waste sampled from final clarifier and treated effluent sampled at Outfall 001

CONSTITUENT	RAW WASTE (mg/l) **	TREATED EFFLUENT Avg. (mg/l) Max. **	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Ammonia Nitrogen (as N)	0.21	0.09 / 0.96		
Arsenic (total)	NTF	NTF		
Barium	NTF	NTF		
Boron	NTF	NTF		
BOD ₅	NTF	2.38 / 12		
Cadmium	NTF	NTF		
Carbon Chloroform Extract	NTF	NTF		
Chloride	444	448 / 666		
Chromium (total hexavalent)	NTF	0.01 / 0.01		
Chromium (total trivalent)	NTF	0.002 / 0.002		

CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Copper	NTF	NTF		
Cyanide (total)	NTF	NTF		
Cyanide (readily released @ 150° F & pH 4.5)	NTF	NTF		
Dissolved Oxygen	NTF	7.97 / 9.59		
Fecal Coliform	NTF	NTF		
Fluoride	0.8	0.9 / 1.4		
Hardness (as Ca CO ₃)	NTF	NTF		
Iron (total)	NTF	NTF		
Lead	NTF	NTF		
Manganese	NTF	NTF		
MBAS	NTF	NTF		
Mercury	NTF	.0000017/.0000017		
Nickel	NTF	NTF		
Nitrates (as N)	12.1	NTF		
Oil & Grease (hexane solubles or equivalent)	8.9 ^{^^}	5 / 5	^^ The Oil & Grease instrument at the final clarifier was inoperable from February 2011 through May 2011. The average value shown as characteristic of the raw waste is an average of the Oil & Grease readings from June 2011 through January 2012.	
Organic Nitrogen (as N)	NTF	NTF		
pH	7.62	7.49 / 7.75		
Phenols	NTF	0.01 / 0.01		
Phosphorous (as P)	NTF	NTF		
Radioactivity	NTF	NTF		
Selenium	NTF	NTF		
Silver	NTF	NTF		
Sulfate	360.8	334 / 602		
Suspended Solids	6	5.6 / 18.0		
Total Dissolved Solids	1558.1	NTF		
Zinc	0.1	0.010 / 0.010		
Others		-----		
Chemical Oxygen Demand	40	40 / 71		
Orthophosphate	2.45	NTF		
Nitrite (as N)	0.066	NTF		
Sulfide	NTF	0.05 / 0.05		

Site Map – Refinery Plot Plan



STATE OF ILLINOIS

COUNTY OF SANGAMON

)
)
)
)
)

CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that I have served on the date of December 12, 2017, the attached **APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, upon the following persons by causing to be mailed a true copy thereof in an envelope duly addressed, bearing proper first class postage, and deposited in the United States mail at Springfield, Illinois:

Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
P.O. Box 19033
Springfield, Illinois 62794

Kevin D. Bogard
400 S. Marathon Avenue
Robinson, Illinois 62454

[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/ Michael S. Roubitchek
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)

THIS FILING IS SUBMITTED ON RECYCLED PAPER