



**Environmental  
Protection Agency**

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director



\*11F0000020081009\*

HAMILTON MARATHON NORTH BEND TERMINAL

PIEKUTOWSKI, MA 2008/10/09



State of Ohio Environmental Protection Agency  
Southwest District

401 East Fifth Street  
Dayton, Ohio 45402-2911

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Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director

October 10, 2008

Mr. Matt Heft  
Marathon Petroleum Company LLC  
North Bend Asphalt Terminal  
11001 Brower Road  
North Bend, Ohio 45052

**Re: Marathon Petroleum North Bend Asphalt Terminal -- OH0010006; 11F00000\*FD  
CEI Inspection**

Dear Mr. Heft:

On September 10, 2008, Marianne Piekutowski of this office met with Bill Day and yourself to conduct a compliance evaluation inspection (CEI) at the Marathon Petroleum North Bend Asphalt Terminal facility. The purpose of this inspection was to evaluate compliance with the terms of the NPDES permit. Please note that the report, by its format, tends to highlight negative areas.

As indicated on the attached NPDES Compliance Inspection Report, all areas that were evaluated received a satisfactory rating except for "Records/Reports". "Records/Reports" received a rating of marginal because the chemical preservation methods were not included on the chain-of-custody forms. Once this is done, this area would be rated as "Satisfactory".

Thank you and your staff for the time extended during the inspection. If you have any questions, please contact Ms. Piekutowski of this office at 937.285.6108.

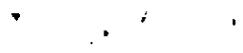
Sincerely,

Martyn G. Burt  
Environmental Supervisor  
Division of Surface Water

Enclosures

Cc: Bill Day, Marathon Petroleum LLC







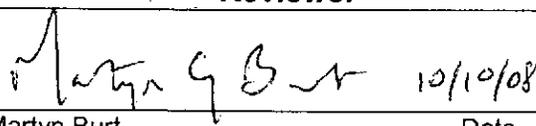
State of Ohio Environmental Protection Agency  
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
11F00000*GD	OH0010006	09/10/2008	C	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Marathon Petroleum LLC North Bend Asphalt Facility 11001 Brower Road North Bend, Ohio	10:05 am	07/01/2005
	Exit Time	Permit Expiration Date
	12:00 pm	06/30/2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Bill Day, Sr. HES Professional Matt Heft, Terminal Manager	317.260.3285 513.941.4400x227	
Name, Address and Title of Responsible Official	Phone Number	
Matt Heft, Terminal Manager Marathon Petroleum LLC North Bend Asphalt Facility 11001 Brower Road North Bend, Ohio 45052	513.941.4400x227	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
M	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
See attached report.	
Inspector	Reviewer
	
Date 10/10/08	Date 10/10/08
Marianne Piekutowski Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Sections E thru K: Complete on all inspections as appropriate  
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

**Section E: Permit Verification**

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee ..... Y
- (b) Correct name and location of receiving waters..... Y
- (c) Product(s) and production rates conform with permit application (Industries)..... Y
- (d) Flows and loadings conform with NPDES permit..... Y
- (e) Treatment processes are as described in permit application... Y
- (f) New treatment process(es) added since last inspection..... N
- (g) Notification given to State of new, different or increased discharges..... NA
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments/Status:

**Section E: Permit Verification**

- (a) Any significant violations since the last inspection..... N
- (b) Permittee is taking actions to resolve violations..... NA
- (c) Permittee has a compliance schedule..... N
- (d) Compliance schedule contained in
- (e) Permittee is meeting compliance schedule..... N

Comments/Status:

**Section G: Operation & Maintenance**

**Treatment Works:**

Treatment facility properly operated and maintained

- (a) Standby power available.....generator  or dual feed ..... NA
- (b) Adequate alarm system available for power or equipment failures.. NA
- (c) All treatment units in service other than backup units..... NA
- (d) Wastewater Treatment Works classification (OAC 3745-7)..... NA
- (e) Operator of Record holds unexpired license of class required by permit..... NA  
Class: I
- (f) Copy of certificate of Operator of Record displayed on-site..... NA
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... NA
- (h) Routine and preventative maintenance scheduled/performed... NA
- (i) Any major equipment breakdown since last inspection..... NA
- (j) Operation and maintenance manual provided and maintained.... NA
- (k) Any plant bypasses since last inspection..... NA
- (l) Regulatory agency notified of bypasses..... NA  
On MORs  and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic and/or organic overloads since last inspection..... NA

**Record Keeping:**

- (a) Log book provided..... NA
- (b) Format of log book (i.e. computer log, hard bound book)
- (c) Log book(s) kept onsite (in an area protected from weather)..... NA
- (d) Log book contains the following:
  - I. Identification of treatment works..... NA
  - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... NA
  - III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs)..... NA
  - IV. Laboratory results (unless documented on bench sheets)... NA
  - V. Identification of person making log entries..... NA
- (d) Has the operator of record submitted written notification to the permittee, Ohio EPA and (if applicable) any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... NA

**Section G: Operation & Maintenance (con't)**

**Collection System:**

- (a) Percent combined system: %
- (b) Any collection system overflows since last inspection..... NA  
(CSO  and/or SSO )
- (c) Regulatory agency notified of overflows (SSOs)..... NA
- (d) CSO O&M plan provided and implemented..... NA
- (e) CSOs monitored and reported in accordance with permit..... NA
- (f) Portable pumps used to relieve system..... NA
- (g) Lift station alarms provided and maintained..... NA
- (h) Are lift stations equipped with permanent standby power  
or equivalent..... NA
- (i) Is there an inflow/infiltration problem (separate sewer system),  
or were there any major repairs to collection system since  
last inspection..... NA
- (j) Any complaints received since last inspection of basement flooding NA
- (k) Are any portions of the sewer system at or near capacity..... NA

**Comments/Status:**

**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date:                      Approval #:                      Not submitted     N/A
  
- (b) Sludge management plan current..... NA
- (c) Sludge adequately disposed..... NA  
(Method:                      )
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... NA  
(Name:                      )
- (f) Has amount of sludge generated changed significantly since  
last inspection..... NA
- (g) Adequate sludge storage provided at plant..... NA
- (h) Land application sites monitored and inspected per SMP..... NA
- (i) Records kept in accordance with State and Federal law..... NA
- (j) Any complaints received in last year regarding sludge..... NA
- (k) Is sludge adequately processed (digestion, pathogen control)..... NA

**Comments/Status:**

Solids from the separator, outfalls, and catch basins are disposed of by United Wastewater. They bring a vac truck to clean them out, and then dispose of the solids.

**Section I: Self-Monitoring Program**

**Flow Measurement:**

- (a) Primary flow measuring device operated and maintained..... Y  
Type of device: Ultrasonic & Parshall flume     Ultrasonic & Weir     Weir   
Calculated from influent                       Other  (Specify:                      )
  
- (b) Calibration frequency adequate ..... NA  
(Date of last calibration:                      )
- (c) Secondary instruments operated and maintained..... NA
- (d) Flow measurement equipment adequate to handle full range  
of flows..... Y
- (e) Actual flow discharged is measured..... Y
- (f) Flow measuring equipment inspection frequency  
 Daily  Weekly  monthly  other

**Comments/Status:**

Outfall 001 has a weir. The other outfalls used a bucket and stop watch with Mannings Equation.

**Section I: Self-Monitoring Program (con't)**

**Sampling:**

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... Y
- (d) Sample collection procedures are adequate..... Y
  - (i) Samples refrigerated during compositing..... Y
  - (ii) Proper preservation techniques used..... Y
  - (iii) Containers and sample holding times prior to analysis conform with 40 CFR 136.3..... Y
- (e) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records)..... Y
- (f) Adequate records maintained of sampling date, time, location, etc.. Y

**Laboratory:**

*General*

- (a) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (b) If alternate analytical procedures are used, proper approval has been obtained..... NA
- (c) Analyses being performed more frequently than required by permit. N
- (d) If (c) is yes, are results in permittee's self-monitoring report..... NA
- (e) Commercial laboratory used..... N

Parameters analyzed by commercial lab:

pH, Temperature done on-site; O&G, TSS, BTEX, TRC, Fe, TDS, COD, TOC

Lab name:

Marathon's Research and Development (RAD) Laboratory

*Quality Control/Quality Assurance*

- (f) Quality assurance manual provided and maintained..... Y
- (g) Satisfactory calibration and maintenance of instruments/equipment. Y
- (h) Adequate records maintained..... Y
- (i) Results of latest USEPA quality assurance performance sampling program:  Satisfactory  Marginal  Unsatisfactory

Date:

**Comments/Status:**

d) The facility grabs four grab samples. They are sent to the laboratory where they are composited for TSS.

Samples are iced. O&G bottles are received preserved. The facility needs to note the preservation method on its chain-of-custody forms, not just on the bottles.

**Section J: Effluent/Receiving Water Observations**

Outfall Number	Outfall sign in place?	Oil sheen	Grease	Turbidity	Foam	Solids	Color	Other
See below								

**Comments/Status:**

All nine of the facility's outfalls were observed on the day of the inspection. There was no discharge from any of them on the day of the inspection.

**Section K: Multimedia Observations**

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

If any of the above are observed, ask the following questions:

- (1) What is the cause of the condition?
- (2) Is the observed condition or source a waste product?
- (3) Where is the suspected contaminant normally disposed?
- (4) Is this disposal permitted?
- (5) How long has the condition existed and when did it begin?

**Comments/Status:**

**MARATHON PETROLEUM COMPANY, LLC  
NORTH BEND ASPHALT TERMINAL  
NPDES COMPLIANCE EVALUATION INSPECTION  
DATE OF INSPECTION: September 10, 2008**

ITEMS FOR DISCUSSION:

The facility has had a name change since the permit was issued. There was no change in the responsible officials. It appears that the corporation sent a letter notifying of the name change in August 2005.

COMPLIANCE EVALUATION:

The facility has had no limit violations since the last inspection in 2004. There were four frequency violations at outfall 001 for the week of March 8, 2005. This was due to the use of a calendar week versus the week as defined in the NPDES permit. This situation has been remedied. There is also a frequency violation for the month of May 2007 at outfall 002. The following code violations were also noted:

<u>Date</u>	<u>Outfall</u>	<u>Parameter</u>	<u>Code</u>
1/28/2006	006	Flow Rate	AF
5/3/2006	001	Flow Rate	AF
9/26/2006	001	Flow Rate	AK
5/8/2007	006	Flow Rate	AF
6/8/2007	006	Flow Rate	AF
9/4/2007	001	Flow Rate	AF
1/12/2008	006	Flow Rate	AF
4/9/2008	006	Flow Rate	AF
8/9/2008	001	Flow Rate	AF

These code violations were discussed during the inspection. The September 26, 2006 code of AK was a typographical error. It should have been an AF since there is no bacteria sampling at the facility. In addition, AF may not be the appropriate code to use. Although the stations were inundated with flow, each of the outfalls is valved shut so there was no discharge to be measured. It would appear that a more appropriate code would be AH for any SWIMware reporting with a note there was no discharge because the outfall was valved shut. There is a code in eDMR for no discharge for that particular day that should be used in the future. In addition, for outfall 006, any flow that would be discharged when the river is up would be pumped. The facility can use the pump rate to report a flow value.

The facility needs to list the chemical preservation methods its chain-of-custody forms. The bottles have the preservatives listed, but the chain-of-custody does not. The chain-of-custody needs to provide the complete documentation of the sampling event. Because of this, the facility will receive a rating of marginal for "Report/Records".

**Marathon Petroleum North Bend Asphalt Terminal**  
**Page 2**

OBSERVATIONS:

Marathon Petroleum LLC North Bend Asphalt Terminal (Marathon) receives asphalt cement by barges on the Ohio River from its refineries. The asphalt cement is then pumped from the barges into one of the following tanks: 301, 302, 303, 305, 331 and 332. These tanks are heated using a closed loop heated oil system. This eliminates the need for boiler. All of these tanks are contained within a diked area that drains to outfall 002. Outfall 002 is valved. There are two valves that must be open to allow water to discharge. This outfall flows to the Ohio River. A portion of the discharge through this outfall from hydrostatic testing of the tanks. Storm water from the diked area is other portion of the flow. The bulk of the flow through outfall 002 would be the storm water. Outfall 003 drains a diked area adjacent to outfall 002. At the current time, there are no tanks in this area. It is just an open grassy area to allow for additional tanks. There are no plans at the current time to add additional tanks. There were no discharges from either of these outfalls on the day of the inspection.

Outfall 001 has a Bay Saver unit installed. This allows for solids to settle out and any oil and grease to be removed. This unit can be valved shut so that water can be retained until sampling results are received showing it is in compliance. This outfall has hydrostatic test water, any water softener backwash, and the truck loading area drainage. This area also receives storm water from the diked areas containing tanks 1 through 35 and 249. These tanks contain asphalt emulsion, neutral oil, latex, PMAC, emulsion flex, cutback, kerosene, #2 fuel oil, caustic, tall oil, indulin, soap and pitch. In this area, the asphalt cement is pumped into the various tanks, and has different components added to make different types of asphalt emulsions. These tank farms have a catch basin that is valved. There is a sump that can be checked to determine if there is a sheen. If there is a sheen, then it adsorbed off the top prior to draining to outfall 001. There is a pitch area that also drains to outfall 001. There are eleven tanks (Tanks 41 - 44, 374 - 377, 400, 405, and 406). These tanks contain a pitch blend and pitch. The pitch is unloaded from a railcar adjacent to the tank farm. Once the pitch is unloaded, it will be blended, and then pelletized. These pellets will then be packaged and shipped off-site for use. There is a water bath used to cool the pitch in order to pelletize the material. The water is in a closed loop system that will have make up water added to account for evaporative losses. There is no discharge associated with this. If the facility would decide to discharge this wastestream, the NPDES permit would need to be modified to reflect this discharge. The laboratory for the facility is also in this area. There are no process wastestreams discharged from this area. Samples from the laboratory are collected in a 55 gallon drum, and are then remixed with the product. There is a brine softener backwash associated with the laboratory. It is included as a source for this outfall. The hydrostatic testing water for this area is transferred between the tanks for the hydrostatic tests. In order to conserve water, the facility will fill one tank and then transfer it to the next tank. Once all of the tanks have been tested, then the water is discharged through outfall 001. The asphalt season will be ending at the end of October, and will start back up in the spring. The pitch process runs all year. Outfall

## **Marathon Petroleum North Bend Asphalt Terminal**

### **Page 3**

001 discharges to Dark Hollow Run. There was no discharge on the day of the inspection. The water collected in the Bay Saver was clear, and did not have apparent solids or sheens.

Tank 304 is located north of outfall 001. This area is sloped to drain to a containment area owned by Chevron. This containment area is not covered in Marathon's permit. This tank contains asphalt cement.

There is an additional tank farm area on the northwest corner of the property. This contains tanks 309 through 321, 333 and 334. These tanks all contain asphalt cement, and are heated. These tanks also used a hot oil system. This area all drains to catch basins that discharge to outfall 004. The outfall is valved, and is normally closed. This outfall drains to an unnamed tributary to Dark Hollow. The only water discharged from this area is storm water. There was a metal corrugated pipe near the outfall. This pipe has been cut, and nothing is discharged. There was no discharge on the day of the inspection.

There is a small gravel area just east of the last tank farm. This discharges to outfall 005. Outfall 005 discharges through a valve that is normally closed. This would be storm water only. On the day of the inspection, there was no discharge.

There is a large grassy field that slopes down to a concrete channel between the warehouses and outfall 001. This discharges through outfall 008. The storm flow from this area is a few feet away from outfall 001. There was no discharge on the day of the inspection.

Outfall 007 drains the area between the road and the railroad track where the transfer piping for the asphalt transfer is located. The storm flow collects in a valved sump that is kept normally closed. If there is any floating sheen, an adsorbent pad is used to remove it prior to discharge. The water in the basin was clear, and there was no discharge on the day of the inspection.

Outfall 006 drains the parking area on the southwestern corner of the facility. The outfall is located between the road and the railroad between Marathon and Duke Energy. This is a storm water only discharge. This does contain flow from a catch basin near the tanker loading area, but should not include any spilled material. In past inspections, coal dust was noted in the area where outfall 006 discharges. This year, there was no coal dust there. There was clean standing water downstream of where the pipe came out, but there was nothing being discharged.

Outfall 009 was added in the last NDPES permit renewal. This outfall is for protecting the barge when the Ohio River floods. This discharge would only be used for either loading or unloading river water for the barge. This outfall is not used under normal conditions.

**Marathon Petroleum North Bend Asphalt Terminal**  
**Page 4**

Marathon needs to list its preservation methods for samples on the chain-of-custody forms. There is an area provided for this on the form. The preservation method is listed on the sample container, but not on the form. This should begin immediately. Because of this, the facility will receive a rating of "Marginal" for "Records/Reports".

**REQUIRED ACTION**

Marathon Petroleum must list the preservation methods on its chain-of-custody forms. This should begin immediately.



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