



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Rd.  
Bowling Green, OH 43402-9398

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www.epa.state.oh.us

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

Re: Allen County  
Lima Refining Company  
NPDES Permit

May 14, 2009

Mr. Roy C. Warnock  
Vice President and General Manager  
Lima Refining Company  
1150 South Metcalf Street  
Lima, Ohio 45804

Dear Mr. Warnock:

On April 28, 2009, a National Pollutant Discharge Elimination System (NPDES) permit compliance/sampling inspection was conducted at the Lima Refining Company. Mr. Dwain Schroeder and Mr. Gary Vonderembse were present and provided information on operations and maintenance at the facility. The inspection included an interview with completion of the enclosed inspection report, a tour of the refinery, inspection of the wastewater treatment system and observation of the final effluent at Outfall 001.

During our visit, all major wastewater treatment units were in operation, except the Siemens Actiflo (selenium removal) system. The Siemens system was out of operation for piping modifications/repairs. The contents of the clarifier were turbid and contained visible pin floc. The clarifier weirs and effluent troughs had accumulations of algae and solids on the surface. These accumulations should be removed in an effort to improve effluent quality. One end section of the scum removal/skimmer mechanism was missing in each clarifier. This equipment should be repaired unless justification is provided indicating the benefit of having a partial section.

The final effluent discharging to the Ottawa River was clear. A 24 hour composite sample was collected from April 27<sup>th</sup> to April 28<sup>th</sup> to determine compliance with NPDES permit limits. A copy of our sample results will be forwarded once they are received.

Our completed inspection report is enclosed for your records. If you have any questions, please contact Mr. Tom Poffenbarger at (419) 373-3008.

Sincerely,

Elizabeth A. Wick, P.E.  
District Engineer/Unit Supervisor  
Division of Surface Water

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Enclosure

pc: DSW-NWDO File

Permit #: 2IG00001  
 NPDES #: OH0002623



State of Ohio Environmental Protection Agency  
 Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
2IG00001	OH0002623	4/28/2009	S	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Lima Refining Company 1150 South Metcalf Street Lima, Ohio 45804	8:30 am	12/1/2005
	Exit Time	Permit Expiration Date
	12:35 PM	10/31/2010
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Mr. Dwain Schroeder, Sr. Environmental Engineer		419-226-2676
Mr. Gary Vonderembse, Environmental Manager		419-226-2562
Name, Address and Title of Responsible Official		Phone Number
Mr. Roy C. Warnock, Vice President & General Manager Lima Refining Company 1150 South Metcalf Street Lima, Ohio 45804		419-226-2300

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

**Section D: Summary of Findings (Attach additional sheets if necessary)**

The final effluent discharging to the Ottawa River was clear. A 24 hour composite sample was collected by Ohio EPA from April 27<sup>th</sup> to April 28<sup>th</sup> to determine compliance with permit limits.

The clarifier effluent was turbid with visible pin floc. Algae and solids accumulation were observed on the effluent weir and in the effluent trough. One end of the scum removal/skimmer mechanism was missing in each clarifier.

The Siemens Actiflo selenium removal system was not in operation during the inspection.

Inspector	Reviewer
<i>Thomas Poffenbarger</i> 5/7/09	<i>Elizabeth A. Wick</i> 5/12/09
Thomas Poffenbarger, P.E. Date District Engineer Division of Surface Water Northwest District Office	Elizabeth A. Wick, P.E. Date Water Quality Engineer Division of Surface Water Northwest 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..... Y
- (g) Notification given to State of new, different or increased discharges..... Y
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments/Status:

(f) Siemens Actiflo System was added for selenium removal.

**Section F: Compliance Schedules/Violations**

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

Comments/Status:

(a) Selenium (Nov. 07-Apr. 08)  
(b) Iron Co-precipitation system installed in May 08.  
(c) Compliance Schedule for BEHP  
(e) Letter indicating full compliance received in December 2008.

**Section G: Operation & Maintenance**

**Treatment Works:**

Treatment facility properly operated and maintained

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

(c) G-Tank remains out of service, repairs are being made, plans are to coat the inside of the tank.  
 (i)Selenium removal system was taken out of service due to a ferric chloride release.

**Record Keeping:**

- (a) Log book provided..... N/A
- (b) Format of log book (i.e. computer log, hard bound book)
- (c) Log book(s) kept onsite (in an area protected from weather)..... N/A
- (d) Log book contains the following:
  - I. Identification of treatment works..... N/A
  - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... N/A
  - III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs)..... N/A
  - IV. Laboratory results (unless documented on bench sheets)... N/A
  - V. Identification of person making log entries..... N/A
- (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..... Y

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

**Collection System:**

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

**Comments/Status:**

**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date: 4/15/02 Approval #: 03-15308 Not submitted  N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y  
(Method: Land Applied)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y  
(Name: Soil Tech)
- (f) Has amount of sludge generated changed significantly since  
last inspection..... N
- (g) Adequate sludge storage provided at plant..... Y
- (h) Land application sites monitored and inspected per SMP..... Y
- (i) Records kept in accordance with State and Federal law..... Y
- (j) Any complaints received in last year regarding sludge..... N
- (k) Is sludge adequately processed (digestion, pathogen control)..... Y

**Comments/Status:**

(b) Sludge management plan is currently being revised and is planned to be submitted for review in June or July 2009.

**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 ..... Y  
(Date of last calibration: 8/28/2008)
- (c) Secondary instruments operated and maintained..... Y
- (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:**

(f) Flow measuring equipment is inspected several times per shift.

**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..... N/A
  - (c) Analyses being performed more frequently than required by permit. Y
  - (d) If (c) is yes, are results in permittee's self-monitoring report..... Y
  - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab: Bioassay, mercury, BEHP, bromomethane, BOD (split samples).

Lab name: Alloway Environmental Testing

*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: DMRQA #28 - 2008

**Comments/Status:**

(i) Results for Lead and COD unacceptable - corrective actions taken for lead, COD was a reporting error.

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

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Other
001	none	none	clear	none	none	clear	--

**Comments/Status:**

**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:**