



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

April 7, 2011

RE: TRUMBULL COUNTY  
VIENNA TOWNSHIP  
MACK INDUSTRIES  
OF PENNSYLVANIA  
CEI  
(NPDES PERMIT 3IN00343)

Mr. David Fagan, GM  
Mack Industries of Pennsylvania, Inc.  
2207 Sodom-Hutchings Road  
Vienna, OH 44473

Dear Mr. Fagan:

On March 31, 2011, a Compliance Evaluation / Pre Permit Inspection was conducted at Mack Industries, 2207 Sodom-Hutchins Road, Vienna Township. Present during the inspection were you, and Mr. Jeff Solvesky, representing Mack Industries; and this writer, of the Ohio EPA.

The purpose of the visit was to evaluate the facility's compliance with its current NPDES Permit effluent limits and conditions, and to discuss the upcoming NPDES permit renewal. The most recent inspection conducted at Mack Industries was on March 10, 2010, during which a tour of the entire manufacturing facility and industrial wastewater treatment process was conducted.

During the March 31<sup>st</sup> inspection, the following items were discussed:

- 1) The manufacturing process conducted at the facility remains the same as the previous inspection. Mack is a concrete manufacturing facility which makes concrete forms and sells batch concrete. Typical concrete items manufactured include manholes, barriers, and sound barriers.
- 2) Industrial wastewater generated at the facility mostly consists of water used to rinse / clean out concrete buckets and mixers, and water used in core drilling of manufactured items. Wastewater is collected in the production areas, and hauled to sedimentation basins at the rear of the property. Concrete mixers are cleaned in the mixer washout area prior to the sedimentation ponds.
- 3) Wastewater is allowed to settle in the two sedimentation basins in series, prior to discharging down a swale and spillway to Yankee Creek.

- 4) Since the last inspection a new extended aeration sewage treatment system was installed to serve the business office. The aeration system replaces the former failed septic system serving the offices.

The new sewage treatment system consists of:

- a) 750 gallon Flow Equalization
  - b) 1500 gpd Extended Aeration
  - c) 133 ft<sup>2</sup> Surface Sand Filter
  - d) UV Disinfection
  - e) 600,000 gallon Storage Lagoon
  - f) Treated wastewater from the Storage Lagoon, as much as possible, is reused as a non-potable water make-up source.
- 5) At the time of the March 31<sup>st</sup> inspection, the new sewage treatment system exhibited the following characteristics:
- a) Trash Trap-Contents typical, no pumping needed.
  - b) Flow Equalization-Contents turbid gray; well aerated; tank level low.
  - c) Extended Aeration-Contents medium brown; good aeration; RAS operating.
  - d) Settling Tank-Effluent trough clean; contents below effluent trough; skimmer not operating.
  - e) Surface Sand Filter-South cell in use; sand in both cells clean and level.
  - f) UV Disinfection-Unit not in operation due to off season (not required November 1<sup>st</sup> through April 30<sup>th</sup>). It is noted that the UV unit has no ON/OFF indicator light. It is recommended that some type of indicator light be installed on the UV unit.

A review of the electronic Discharge Monitoring Reports (eDMR) as reported to the Ohio EPA for the Mack Industries WWTP, during the period of January 1, 2009 through April 1, 2011, found the following numeric effluent limitation violations for the facility:

**Mack Industries**  
**NPDES Permit No. 3IN00343**  
**Numeric Effluent Limitation Violations**  
**(January 1, 2009 – April 1, 2011)**

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2009	001	Total Suspended Solids	30D Conc	30	44.5	6/1/2009

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The NPDES permit for Mack Industries is in the process of being renewed. An additional monitoring station, Station 601, is being included in the new NPDES permit. Station 601 will require monitoring for the treated effluent being discharged from the new wastewater treatment plant. Station 001 monitoring requirements remain essentially the same as in the previous NPDES permit.

Proper operation and maintenance practices which will enable Mack Industries to continuously meet its NPDES Permit effluent limits should continue to be implemented.

A copy of this inspection report is being forwarded to the Trumbull County Health Department. If you have any comments or questions about this document, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/mt

pc: Trumbull County Health Dept.