

BACKGROUND DATA

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The Delphi Interior and Lighting Systems facility located in Trenton, New Jersey (Mercer County), manufactures door handles, window regulators, and seat adjusters. Major production processes include metal stamping, zinc die casting, electropolishing, water-based electrophoretic deposition, powder painting, injection molding, bilaminate extrusion, zinc phosphating, and encapsulated glass molding.

The original plant was built in 1938 for the Ternstedt Division. Facility additions were constructed in 1942 and 1944 for military aircraft production. The plant became part of the Fisher Body Division in the 1968 consolidation. In September 1984, the plant became part of the newly-formed Fisher Guide Division, which merged with the Inland Division in March 1989 to become the Inland Fisher Guide Division. In February 1995, the Inland Fisher Guide Division, which was part of the Automotive Components Group (now known as Delphi Automotive Systems), was renamed Delphi Interior and Lighting Systems.

This facility has approximately 1,080,000 square feet of floor space on 84 acres, including roughly 4.2 acres of wetlands, and employs 1,000 hourly and 130 salaried personnel. As shown on the plot plan at the end of this report, the plant is located in a mixed residential, commercial, and undeveloped area. There were no objectionable odors or noise levels detected at the property perimeter which could be attributed to facility operations.

Electricity and natural gas are purchased from the Public Service Electric and Gas Company. Steam is produced onsite in three No. 6 fuel oil-fired boilers with a total rated capacity of 132,000 pounds of steam per hour and one oil-fired boiler rated at 80,000 pounds of steam per hour. Approximately 65% of the steam generated is used for building heat and 35% is used for process operations.

Existing air pollution control equipment includes high energy venturi air scrubbers on the remelt furnaces exhausts. The exhaust systems from the buffing and sanding operations are equipped with scrubbers and baghouses. Emissions from electropolishing operations are diverted through wet scrubbers; dual air washers are installed in the black zinc phosphate exhaust system. Electrostatic precipitators have been installed on building exhaust systems which clean the air prior to recirculation back into the plant.

The facility purchases an average of 0.5 million gallons of water per month from the City of Trenton. The water is used for process make-up (75%), noncontact cooling (15%), and other purposes, such as boiler feed and sanitation (10%). Treated process wastewater from the Wastewater Treatment Plant and sanitary water are discharged to the Ewing-Lawrence Sewerage Authority sanitary sewer system. Under normal conditions, stormwater and noncontact cooling water are diverted to the Wastewater Treatment Plant for treatment. During heavy rainfall periods, overflows from three stormwater interceptors are discharged to Gold Creek. A New Jersey Pollutant Discharge Elimination System (NJPDES) permit is in effect for these three

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stormwater outfalls.

Wastewater Treatment facilities are available for settleable solids and oil removal, cyanide destruction, chromium reduction, suspended solids and heavy metals removal, and pH adjustment. The treated wastewater discharge is regulated by the State's Significant Industrial User permit.

According to plant personnel, all solid and liquid waste materials are removed from the plant by contracted waste haulers for reclamation or disposal at properly licensed sites. In the past, onsite sludge dewatering and drying beds were used for electroplying wastes. The use of these beds was discontinued prior to the enactment of the Resource Conservation and Recovery Act (RCRA) regulations in 1980; however, groundwater monitoring wells have been installed and samples are analyzed to identify potential groundwater contamination caused by the previous use of these drying beds. The remainder of this report presents detailed charts and general observations of the plant's environmental status at the time of this review.

TRE-100



TRENTON

TRE-100

PLOT PLAN

SCALE 1/8" = 1'-0"

TRENTON PLANNING DEPARTMENT'S SITE PLAN

DELPHI INTERIOR & LIGHTING SYSTEMS
TRENTON, NEW JERSEY

