SECTION 1
INTRODUCTION

Pursuant to Pennsylvania Chapter 94 Municipal Wasteload Management regulations and requirements, Westtown Township has prepared this 2014 Municipal Wasteload Management Annual Report for the West Goshen Sewer Authority (WGSA) service area.

The West Goshen Sewer Authority service area covers the central one-third of the Township generally between the West Chester Railroad to the east and Wilmington Pike (SR 202) to the west. In addition, there is a small portion in the eastern end of the Township bounded by Manley Road, Chester Road (SR 352) and West Chester Pike (SR 3) and known as the Triangle, where wastewater is conveyed through East Goshen Township to WGSA for treatment. Service is also provided to Commons of Thornbury Shopping Center located in Thornbury Township at Wilmington Pike and Street Road (SR 926). The West Goshen Sewer Authority service area is shown on the Wastewater Facilities Plan.

The West Goshen Sewer Authority service area includes approximately 17 miles of 8” and 10” diameter sewer including approximately 1,000 feet of sewers in the Triangle. There are also four sewage pump stations in the WGSA service area, Pleasant Grove, Wild Goose, Cobblefield and Arborview. Wastewater from Thornbury Township is conveyed to WGSA via the Pleasant Grove Pump Station.

Wastewater from the WGSA service area enters West Goshen Township at six locations identified on the Wastewater Facilities Plan:

➢ The Triangle connects to East Goshen Township at the intersection of Chester Road and Manley Road. Flows are conveyed through East Goshen Township to WGSA. Flows are unmetered. Flow is estimated based on water usage records obtained from AQUA Pennsylvania.

➢ The Marker Drive meter pit is located on Little Shiloh Road, 300’ west of Marker Drive.

➢ The Thorne Drive meter pit is located on Thorne Drive near the intersection of Little Shiloh Road.

➢ Wastewater from the Pleasant Grove and Wild Goose Pump Stations discharges to a gravity sewer in South Concord Road 900’ south of Little Shiloh Road. In addition to the flow from the two pump stations, there are two residential properties (901 & 903 South Concord Road) that connect to this sewer.

➢ The Coventry Village meter pit is located near Coventry Lane and the West Chester Railroad.

➢ Wastewater from District I is unmetered and connects to WGSA at two locations, at Wilmington Pike just north of Stanton Avenue, and north of Larchwood Road.
SECTION 2
HYDRAULIC LOADING

The Westtown Township is allocated 530,000 gallons per day (GPD) in WGSAs treatment plant. During 2014, Westtown conveyed a monthly average daily flow of 256,378 GPD to WGSAs including flow from Thornbury Township. Thornbury Township flows are deducted by WGSAs to calculate net flows for Westtown. Currently, Westtown is using 48.37% of their allocated capacity including the Thornbury Township flow. Flows for each of the connections to WGSAs are summarized in Table No. 1.

In 2014, 4 EDU’s were connected in the WGSAs service area. In addition, the sales office of the Gardens of Westtown condominiums was connected. In 2015, 10 condominiums are projected to be connected. Wastewater from the condominiums is conveyed to WGSAs via the Pleasant Grove Pump Station. Projected flows for the new connections in 2015 are not presently available. Flows are projected to increase by approximately 20,000 GPD in the next 5-years.
SECTION 3
CONDITION OF THE SEWER SYSTEM

Approximately 90% of the sewer system in the WGSA service area is 30-years old or less and constructed of PVC pipe. The balance of the sewer system is 25-years or more and constructed of asbestos cement pipe. No sewer system repairs were performed in 2014.

In 2015, manhole frames and covers will be replaced with gasketed frames and covers as part of the Townships road paving program. Areas with the frames and covers will be replaced have not yet been identified.
SECTION 4
SEWAGE PUMPING STATIONS

There are 4 pump station in the WGSAs service area. Three pump station, Pleasant Grove, Wild Goose and Arborview are equipped with flow meters. The forth pump station, Cobblefield is unmetered. Pump station flows are summarized as follows:

1. Pleasant Grove Pump Station:
   - Design Capacity: 650,000 GPD
   - Current 5-year Maximum Flow: 278,513 GPD
   - Projected 2-year Maximum Flow: 251,200 GPD

2. Wild Goose Pump Station:
   - Design Capacity: 35,000 GPD
   - Current 5-year Maximum Flow: 10,123 GPD
   - Projected 2-year Maximum Flow: 10,123 GPD

3. Arborview Pump Station:
   - Design Capacity: 31,680 GPD
   - Current 5-year Maximum Flow: 4,640 GPD
   - Projected 2-year Maximum Flow: 4,640 GPD

4. Cobblefield Pump Station:
   - Design Capacity: 27,500 GPD
   - Current 5-year Maximum Flow: 10,000 GPD (estimated)
   - Projected 2-year Maximum Flow: 10,000 GPD

Pump station repairs in 2014 included the rebuilding of one pump at the Pleasant Grove Pump Station. A new pump was purchased as a spare for the Pleasant Grove Pump Station.
SECTION 5
INDUSTRIAL WASTES

Currently, there are no industrial users in the WGSA service area, nor are any planned in the future. An industrial waste discharge ordinance was adopted in 2005.
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<td>5,208</td>
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<td>32,687</td>
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<td>25,404</td>
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<td>2,200</td>
<td>17,281</td>
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Notes:
(1) Based on water usage data provided by AQUA Pennsylvania.
(2) Based 2 homes at 360 gallons per day per agreement
(3) Based on pump station flow meter readings. Includes flows from Thornbury Township.
(4) Based on 77 homes @ 229 gallons per day per agreement
Letter of Transmittal

TO: West Goshen Township

1025 Paoli Pike
West Chester, PA 19380

DATE: 3/23/15

JOB NO.: 15-5702.00

ATTENTION: Michael Moffa

Environmental Compliance Officer

RE: Westtown Township Chapter 94 Report

WE ARE SENDING YOU □ Attached □ Under separate cover via __________________ the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ Report

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<td>Chapter 94 Report – West Goshen Sewer Authority Service Area</td>
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THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit ____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit ____ copies for distribution
☐ As Requested ☐ Returned for Corrections ☐ Return ____ corrected prints
☐ For review and comment
☐ FOR BIDS DUE ______________________, 20____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS: Mark,

COPY TO: Robert R. Pingar, P.E, Manager

SIGNED: ____________________

William N. Main, P.E.