

Wilkes University
EES 105 – Global Environment
Fall 2018

Lab #10
Wyoming Valley Sanitary Authority Field Trip
Assignment

Each student is to submit a 2-3 page typed, summary (1.5 spacing, Times New Roman font, 12 point, 1 inch margin, double sided) of the information provided during the tour of the Wyoming Valley Sanitary Authority Sewage Treatment facility.

- The *Lab report* is **due** at the beginning of the next week's lab class, **Nov. 12-13, 2018**.
- The **Rubric** must be included as a **cover sheet** to your **lab write-up**. If the Rubric is not included, **10 points** will be **deducted** from your lab assignment final grade.
- **Late submissions** will result in a loss of **25 points**.

In your lab write up, please **restate each question/topic** (in bold) with your answer following each question.

The report should address the following questions:

- When was the WVSA constructed and how was it modified?
- What is the source of the sewage and from what communities does it originate?
- How does the sewage arrive at the WVSA?
- Describe the treatment process in detail.
- Where does the waste water after treatment discharged to?
- What are the waste products from the treatment process and how is the waste disposed of?
- How did the facility meet the new Total Maximum Daily Limits of Nitrogen, Phosphorus and Total Dissolved Solids discharge levels? What was the estimated cost and how was it paid for?
- Has the recent numerous rainfall events in the summer/fall of 2018 impacted the facilities ability to treat the waste water? Has there been an impact to the Susquehanna River water quality? If so – how?

**** Note: Class Participation during the lab activities will be graded (see rubric).**