

EGR 120
Introduction to Engineering
File: N120MD4B

Media Assignment #4

Media Title: Gilbane Gold

Length: 25 minutes

Location: LRC, Bayside Building, TCC - Virginia Beach Campus

Assignment:

View the video listed above and complete the assignment below and submit it to the instructor by the assigned due date.

1. The Zcorp manufacturing facility discharged what two heavy metals into the Gilbane water treatment facility? _____ and _____
2. The Gilbane sludge product is sold as fertilizer to farmers. The fertilizer is referred to by what name? _____ (By the way, locally the Hampton Roads Sanitation Department, HRSD, produces a similar product known as Nutri-Green. You can buy it at MacDonald's Garden Center in Virginia Beach.)
3. What factors support the position that Zcorp **should not be obligated** to invest in further pollution controls to reduce their output of heavy metals into the Gilbane water treatment system? Write 1-2 paragraphs supporting this position.
4. What factors support the position that Zcorp **should be obligated** to invest in further pollution controls to reduce their output of heavy metals into the Gilbane water treatment system? Write 1-2 paragraphs supporting this position.
5. Which of the positions in questions 3 and 4 above do you think is correct? Write 1-2 paragraphs discussing what would you do if you were in David's (the young engineer) position?
6. A loophole in Gilbane's city law would allow Zcorp to increase the amount of toxic chemicals dumped into the water treatment facility by simply increasing the water flow so that they could still pass the concentration test. This action might not be illegal, but perhaps it is unethical. What sections of the NSPE Code of Ethics might apply to this situation (list the paragraph number and directly quote any sections cited)?