

G473 Environmental Geology Lab 3 (Part 2) - Landfill Analysis

In Part 1, we completed a section on landfill terminology and VR Excursion data collection via Table 3.1 (p. 40 of lab manual) and Figure 3.3 (p. 42). In this part of the lab, we will continue the landfill data analysis and complete a final project report.

The following is the cookbook recipe for completing Part 2 of Lab 3. Compile your lab work in a neat, well-organized package, with each section clearly labeled. Use your text and interactive CD to complete the tasks below.

- (1) Using data from Table 3.1 and Figure 3.3, answer the following questions:
Tasks 1, 2,3,4,5,6,7,8,9 p. 44-46 in lab manual
- (2) Read over introduction / instructions to landfill problem 2 on p. 48-51 of the lab manual.
- (3) Photocopy Tables 3.2 and 3.3 (on p. 54-55), and Figure 3.4
- (4) Complete Tasks 1, 2 on p. 51
- (5) Complete Phase 2 on p. 52.
- (6) Complete Tasks 1 and 2 on p. 53.
- (7) Answer questions at bottom of p. 53.
- (8) Read the intro to problem 3 on p. 61.
- (9) Photocopy p. 69, 70, 71 to use for data collection and analysis.
- (10) Complete Task 1 on p. 66.
- (11) Complete Tasks 1, 2, and 3 on p. 67.
- (12) Synthesize Tasks 1,2, and 3 on p. 68 into a short 3-paragraph report.
- (13) Read the landfill gas problem introduction on p. 72-77.
- (14) Photocopy Table 3.5 on p. 80, for your answer sheet below.
- (15) Complete Phase 1, Tasks 1 and 2 on p. 78.
- (16) Complete Phase 2, Tasks 1 and 2 on p. 78.
- (14) Synthesize your gas-migration findings in 2 paragraphs, using the guidelines listed in Phase 3, tasks 1 and 2 on . 78-79.