

QUESTIONS RE: GASOLINE SPILL AT MAGELLAN (GARDNER PARK) SITE
SUBMITTED TO DNR AND MAGELLAN BY THE VILLAGE OF KRONENWETTER
ON JANUARY 3, 2010

1. What caused this release of gasoline into the soil? Was there a slow leak somewhere along a pipe or was there a spontaneous rupture releasing a large quantity of gasoline all at once?
2. Where on the Magellan property did the leak/break occur?
3. How did Magellan determine the volume of gasoline that leaked? How confident is Magellan that it is accurate and that the spill wasn't actually larger?
4. Why did over 25,000 gallons leak before the problem was detected?
5. Why was there more than two weeks delay before the Village was notified and why was there so little information provided at that time? DNR Problem Report was posted on 12/02/2009 but Village was finally given (only minimal) information on 12/17/2009.
6. Can Magellan determine how long the gasoline was leaking into the soil before it reached the water table?
7. Is it possible that the gasoline is still spreading over a larger area and how can that possibility be ascertained?
8. What types of systems are in place to protect against and detect external and internal corrosion?
 - a. Is the pipe laid in sand or is there rock underneath some/all of the pipeline?
 - b. What steps were taken after the prior leak (late '70s, discovered in late '90s) to ensure that it wouldn't happen again?
 - c. How does Magellan monitor the condition of its pipeline?
 - d. Is the pipeline made of carbon steel and is it painted and wrapped? If not, is there a replacement plan in place?
 - e. Is there a cathodic protection system in place to protect against galvanic corrosion?
 - f. Is there high resolution pressure sensing between pumping stations in order to detect a leak?
 - g. Is there a leak alarm system in place and how is it monitored? What is the timing of response to an alarm? Is the alarm system attended 24/7 on the receiving end and, when an alert is sent, how long before appropriate Magellan personnel will take action?
 - h. Does Magellan routinely run cleaning "pigs" through the line to prevent localized corrosion?
 - i. Are "smart pigs" run through the line to perform inline pipe thickness readings to predict a need for pipeline maintenance?
 - j. How can residents be assured that other pipes aren't corroding underground? Are electronic devices or monitoring cameras etc. that can determine potential for future problems in place on the Magellan site?
9. Can Magellan provide a diagram of its property to show where the original leak occurred and also the entire area where contamination has been discovered in the soil and in the groundwater?

10. Can Magellan explain (in lay terms) how gasoline is removed from the water table?
11. How is it removed from contaminated soil?
12. What (in lay terms) is “air sparging”? What does it accomplish? How is its effectiveness monitored?
13. If soil venting is used, how are neighbors assured that there won’t be any vapors released in the area?
14. Is there any possibility that exposure to gasoline could have an impact on Village infrastructure (PVC sewer and water pipes)? What can be done to prevent corrosion?
15. Is bioremediation a possibility and how would that work in this situation?
16. Why isn’t all contaminated soil being removed and hauled away?
17. Is the gasoline (“product”) that is recovered being measured in order to monitor retrieval progress?
18. How is the contaminated *water* that’s being drawn out being treated? And, what is being done with the contaminated water? Where is it being disposed of?
19. What is being done with the *gasoline* that’s being drawn off?
20. Please describe the role of the DNR in this project including how it will monitor progress and effectiveness of this remediation effort and ensure the safety and cleanliness of neighboring properties.
21. Which Federal agencies are involved and what role(s) do they play in the monitoring and clean-up process?
22. How many monitoring points have or will be set up and where are they located? How can Magellan be absolutely sure that the contamination hasn’t and won’t spread beyond the Magellan property?
23. Will the cold weather play any role in the effectiveness of the remediation process?
24. What is the soil type on the Magellan property and is it consistent throughout? What role will the soil type play in the potential spread of the contamination? In the remediation process?
25. Please describe the role of the Marathon County Health Department in this project and how it determined that there is no health risk.
26. What type of long-term monitoring will be done to ensure that the contamination doesn’t spread to the residents’ private wells? To the Wisconsin River?
27. Will Magellan arrange and pay for testing so that neighboring residents can have their private wells tested for gasoline contamination over the next few years?
28. What are the chances of totally cleaning, from the underground water *and* the soil, *all* contamination and how long will that take?
29. What criteria will be used by Magellan, DNR, and other involved agencies to determine that the clean-up has been completed?