09-43180

Ameren Services

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0190100008
Q Plant Gas
SR|Tech

November 17, 2009

Gregory W. Dunn, L.P.G.
Illinois Environmental Protection Agency
Remedial Project Management Section
1021 N Grand Ave East
Springfield, IL 62702

ORIGINAL

Ameren

Subject: **Soil Gas Sampling**
Center for Women in Transition
Champaign Former Manufactured Gas Plant Site
Champaign, Illinois 68120
State ID 0190100008

Dear Greg,

In our November 10, 2009 phone conversation, you provided two comments on our proposed soil gas sampling plan for the Center for Women in Transition property. Your comments and our responses are provided below. Please consider these responses to be an addendum to our originally-submitted work plan. Upon your written approval, we will incorporate these responses into the activities as described in our work plan.

1. Please specify the tubing material (Teflon®, Tygon®, HDPE, etc.) to be used for the collection of soil gas samples.

   Chemically inert Teflon® tubing will be used for the collection of soil gas samples.

2. Please provide a more detailed description of the leak detection methods to be used in the field.

   We will use computer keyboard duster spray which contains 1,1-difluoroethane. Clean paper towels will be placed inside a zip-lock bag and sprayed to saturation with the duster spray at a location downwind of the sampling location. Upon saturation, the bag will be sealed. We will immediately return to the sampling location where all the equipment and sampling train is ready to proceed. We will place the sprayed paper towels at the ground penetration around the geoprobe rod. We will also wrap sprayed paper towels around the sampling train where it enters the geoprobe rod but avoid the towels actually contacting the tubing to avoid absorption by the tubing. Once the paper towels with the 1,1-difluoroethane are in place, the purging and sampling will performed. If leaks are present, in the apparatus or if ambient air is being drawn into the probehole,

the 1,1-difluorethane will enter the sample. The Summa canister will be analyzed in the lab for the site COCs plus 1,1-difluoroethane. The presence of excessive 1,1-difluoroethan will suggest that a leak may have occurred during the sampling.

We are asking for your concurrence before we proceed with soil gas sampling. Please respond to this letter in writing at your convenience. If you have any questions or require additional information, please call or email me, 314/554-2233 or bmartin2@ameren.com.

Sincerely,

Brian H. Martin

Brian H. Martin, CHMM
Consulting Environmental Scientist

cc: Pete Sazama – PSC
File: Champaign MGP – 10.45