From: Rush, Kim
To: "Michael Kaiser"; "cliff.koenig@hdrinc.com";
cc: Lubozynski, Tom; Rush, Kim;
Subject: FW: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E. D. Solid Waste Management Facility
Date: Monday, February 06, 2012 10:22:58 AM
Attachments: 00C-03 Plot (1).pdf

Mike,

The Department has reviewed the Pilot Test Work Plan for the soil vapor extraction system at JED received on January 27, 2012 and the follow-up supporting information below and attached. The Department approves the work plan. If you have any questions, feel free to contact me.

Thank you,

Kimberly Rush, P.E.
Solid Waste
Florida Department of Environmental Protection
3319 Maguire Blvd. Ste 232
Orlando, FL 32803-3767
Phone: (407) 897-4314

From: Koenig, Cliff [mailto:Cliff.Koenig@hdrinc.com]
Sent: Friday, February 03, 2012 3:39 PM
To: Michael Kaiser; Rush, Kim
Subject: RE: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E.D. Solid Waste Management Facility

Kim,

Attached is the revised cross section.

Let us know if you have additional questions.

Thanks

-Cliff Koenig

From: Michael Kaiser [mailto:mkaiser@wasteservicesinc.com]
Sent: Thursday, February 02, 2012 4:19 PM
To: Rush, Kim
Cc: Koenig, Cliff
Subject: RE: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E.D. Solid Waste Management Facility

I discussed with Cliff at HDR and below is a response to your e-mail yesterday:

1. The SVE wells will be installed very close to the edge of liner. Provide a statement

describing what steps will be taken to ensure the liner system will not be compromised. RESPONSE: Omni will hand excavate near the location of each well to expose the liner in the anchor trench. This will ensure we do not compromise the liner.

2. What is the maximum vacuum that you would apply to the SVE's and how does this maximum vacuum compare to the vacuum applied to the GCCS system? RESPONSE: No more than 10-inches of vacuum is typically applied to SVE wells. Presently, the vacuum at the GCCS is approximately 40-inches of vacuum. However, for the initial ROI test for the pilot system more vacuum may be applied to determine the effective ROI and appropriate spacing for a full scale SVE system. We are hopeful minimal vacuum will be needed once the initial built up volume of gas is removed from the soils in the berm.

3. Cross Section A, sheet C-3:
   a. A gas well is depicted inside the bottom liner area east of the concrete sump. Is this one of the extraction test wells installed previously? RESPONSE: Yes.

   b. The 2 SVE wells which are on the east side of the perimeter road are not depicted on any of the cross sections on sheet C-3. Provide a cross section for the two SVE wells east of the perimeter road (one cross-section is acceptable assuming the wells will be mirror images of each other). Ensure the relationship between the well and the edge of liner is depicted. We will forward a revised detail 2 sheet C-03 that show the well(s) on this edge of the road.

Thanks,

Mike Kaiser

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A Progressive Waste Solutions Company
C: (904) 673-0446
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1099 Miller Drive
Altamonte Springs, Florida 32701
mkaiser@wasteservicesinc.com

From: Rush, Kim [mailto:Kim.Rush@dep.state.fl.us]
Sent: Wednesday, February 01, 2012 11:45 AM
To: Michael Kaiser; Cliff.Koenig@hdrinc.com
Cc: Lubozynski, Tom; Shine, Caroline; Rush, Kim

Subject: RE: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E.D. Solid Waste Management Facility

Mike,
I am in the process of reviewing the SVE Plan. Could you please supply the following clarifications?

4. The SVE wells will be installed very close to the edge of liner. Provide a statement describing what steps will be taken to ensure the liner system will not be compromised.
5. What is the maximum vacuum that you would apply to the SVE's and how does this maximum vacuum compare to the vacuum applied to the GCCS system?
6. Cross Section A, sheet C-3:
    a. A gas well is depicted inside the bottom liner area east of the concrete sump. Is this one of the extraction test wells installed previously?
    b. The 2 SVE wells which are on the east side of the perimeter road are not depicted on any of the cross sections on sheet C-3. Provide a cross section for the two SVE wells east of the perimeter road (one cross-section is acceptable assuming the wells will be mirror images of each other). Ensure the relationship between the well and the edge of liner is depicted.

Thank you,
Kimberly Rush, P.E.
Solid Waste
Florida Department of Environmental Protection
3319 Maguire Blvd. Ste 232
Orlando, FL 32803-3767
Phone: (407) 897-4314

Please take a few minutes to share your comments on the service you received from the department by clicking on this link. DEP Customer Survey.

From: Lubozynski, Tom
Sent: Monday, January 30, 2012 5:26 PM
To: Rush, Kim
Subject: FW: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E.D. Solid Waste Management Facility

Please review and respond to JED.

Tom

From: Koenig, Cliff [mailto:Cliff.Koenig@hdrinc.com]
Sent: Friday, January 27, 2012 4:27 PM
To: Lubozynski, Tom
Cc: Shine, Caroline; Michael Kaiser; Stone, Bradford M
Subject: Pilot Test Work Plan for a Soil Vapor Extraction System at the J.E.D. Solid Waste Management Facility

Tom,

On behalf of Omni Waste of Osceola County, LLC we are submitting the pilot test work plan for a soil vapor extraction system at the J.E.D. Solid Waste Management Facility.

Hardcopies are being sent to you and Caroline Shine for your review.

Please do not hesitate to call me with any questions you or your staff may have.

Thanks

CLIFF KOENIG, P.E. **HDR Engineering, Inc.**
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