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Department of Environmental Quality

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MEMORANDUM

TO : Wanda Paes, Trust Fund Manager *WP 3/6/17*
Petroleum Tanks Program and Enforcement,
Office of Land Resources

THROUGH : Daniel Clanton, P.E., Technical Branch Manager *D 3/2/17*
David Frazier, P.G., Geologist Supervisor *DTF 3/1/17*
PTP, OLR

FROM : Jarrod Zweifel, P.G. *JZ*
Technical Branch, PTP, OLR

DATE : March 1, 2017

SUBJECT : Review of: *Revised Site Assessment Work Plan and Cost Estimate*
Total estimated costs: \$40,371.70
Holiday Island Marina
124 Woodsdale Dr.
Holiday Island, Arkansas 72631
Facility ID # 08001601 LAST # 08-0026 AFIN # 08-00031

The *Revised Site Assessment Work Plan and Cost Estimate* was received from Sunbelt Environmental Services, Inc. on 2/13/2017 with further revisions received on 2/27/2017 for the above referenced LAST facility located in Holiday Island, Arkansas.

I have completed my review of the proposed costs for the referenced work plan and hereby recommend approval of the costs as presented in the amount of \$40,371.70 by your concurrence on this memo.

Proposed tasks for this *Revised Site Assessment Work Plan and Cost Estimate* include the following:

1. Task 1- Work Plan Preparation – Review of existing LAST case files, meeting with ADEQ Case Manager to discuss objectives and general approach, obtaining contractor quotes, and work plan and cost estimate preparation.
2. Task 2 – Field Investigation – Installation of four (4) groundwater monitoring wells using air rotary technology through bedrock with minimal soil exposure with termination depths varying from twenty-five (25) to sixty (60) feet below ground surface. A site survey is included. Additionally, both groundwater and surface water

sampling will be completed for the initial assessment report submittal and three (3) subsequent quarterly sampling reports.

3. Task 3 – Sample Analysis – A total of ten (10) collected groundwater and surface water samples will be analyzed for benzene, toluene, ethyl benzene, xylenes (collectively BTEX), naphthalene, 1,2,4 trimethylbenzene, MTBE, 1-methylnaphthalene, and 2-methylnaphthalene with a total of two (2) field/trip blanks also analyzed. This sample analyses will be repeated quarterly for a total of four (4) reports.
4. Task 4 – Investigation-Derived Waste Management– All wastes will be temporarily stored on-site in drums pending disposal.
5. Task 5 – Data Evaluation/Reporting– Perform data evaluation on the lab analyses from collected environmental samples. Prepare, complete, and submit *Site Assessment Report* on or before the approved due date. Additionally, a total of three (3) quarterly reports are also included.

The projected costs of each task are as follows:

1. Work Plan Preparation	\$1,530.00
2. Field Investigation	\$22,091.00
3. Sample Analyses	\$6,336.00
4. Investigation Derived Waste Management	\$3,124.70
5. Data Evaluation/Reporting	<u>\$7,290.00</u>
Total Projected Cost:	\$40,371.70

Reimbursements for costs in implementing this work plan should follow the requirements of APC&EC Regulation 12 and all applicable ADEQ cost control guidance documents available for download at the Petroleum Storage Tank Trust Fund page of the ADEQ website.