From:	Richards, Kenneth
To:	"Jim Campbell"; Sprague, Cheryl
Subject:	RE: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals
Date:	Wednesday, May 17, 2017 7:22:55 AM

Thanks for the heads up Jim

Kenneth A. Richards, P.G., P.E.
NH Department of Environmental Services
Waste Management Division
Hazardous Waste Remediation Bureau
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095
(603) 271-4060

From: Jim Campbell [mailto:jrc@e-emi.com]
Sent: Tuesday, May 16, 2017 5:22 PM
To: Sprague, Cheryl; Richards, Kenneth
Cc: Brandon, William; Soukup, James
Subject: RE: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals

H&A has scheduled the GMP sampling for Tuesday May 30th and Wednesday May 31st.

From: Jim Campbell
Sent: Friday, May 12, 2017 12:02 PM
To: 'Sprague, Cheryl' <sprague.cheryl@epa.gov>; 'Richards' <kenneth.richards@des.nh.gov>
Cc: 'Brandon, William' <Brandon.Bill@epa.gov>; 'Soukup, James' <Jim.Soukup@WestonSolutions.com>
Subject: RE: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals

We are scheduled with the driller and the homeowner to complete the packer sampling at 18 Charleston on Tuesday May 23rd through Thursday May 25th. Pls let me know if you have questions.

From: Jim Campbell
Sent: Thursday, April 20, 2017 8:35 AM
To: 'Sprague, Cheryl' <sprague.cheryl@epa.gov>; Richards <kenneth.richards@des.nh.gov>
Cc: Brandon, William <Brandon.Bill@epa.gov>; Soukup, James <Jim.Soukup@WestonSolutions.com>
Subject: RE: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals

We are OK with your proposed sampling interval adjustments. I'll be back in touch regarding the schedule for the work.

From: Sprague, Cheryl [mailto:sprague.cheryl@epa.gov]
Sent: Wednesday, April 12, 2017 11:59 AM
To: Jim Campbell <jrc@e-emi.com>; Richards <kenneth.richards@des.nh.gov>
Cc: Brandon, William <Brandon.Bill@epa.gov>; Soukup, James <Jim.Soukup@WestonSolutions.com>
Subject: RE: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals

HI Jim –

The EPA and NHDES team have reviewed the 18 Charleston Geophysics Report and Recommended sampling intervals and offer the following modifications based on that review:

18 Charleston Packer testing:

Comment: Based on the caliper logs, it appears that a Jaswel Seal may be installed in the well from 9-38 ft; please confirm. If so, this suggests that they had caving or poor water quality from the shallow zones and needed to case

that section off.

Proposed interval 36-41' The upper packer would be inside the Jaswel (4") but the lower packer will be below the Jaswel (6"). Recommend a single packer setup to test this zone, with the top of the packer at 41'.

Proposed Interval 41-51' Recommend sliding this interval down to 43-53 ft. This will be below the Jaswel and also onto slightly smoother sidewalls on the bottom packer.

Proposed interval 52-72' Recommend placing the bottom of the top packer at 54.5 feet and keep with a 20-ft packer interval, with the top of the bottom packer being placed at 74.5 feet to allow collection of a sample including the fracture at 72 feet; assuming a 2 foot packer.

Proposed Interval 90-95' Recommend a 10-ft interval from 87-97 ft to get a better seal. The shorter interval from 90.5-95.5 is tight up against the fractures at 91 and 95 and might get leakage.

Please let me know if you have any questions or concerns with these recommendations as well as providing the Agencies with communication on the tentative dates when the packer testing will be performed and advanced notice of the start of field work.

Sincerely,

Cheryl L. Sprague
Remedial Project Manager
USEPA Region 1 (OSRR07-1)
5 Post Office Square
Boston, MA 02109-3912
(617) 918-1244

From: Jim Campbell [mailto:jrc@e-emi.com]
Sent: Thursday, April 06, 2017 9:26 AM
To: Sprague, Cheryl <sprague.cheryl@epa.gov>; Richards <kenneth.richards@des.nh.gov>
Subject: Tinkham - 18 Charleston Geophysics Report and Recommended Sampling Intervals

The 18 Charleston Geophysics Report and Recommended Sampling Intervals Memo are attached for your review. Let me know if you want to have a call to discuss the results and recommendation and we will schedule one.

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