



January 11, 2010

Reference No. 050681

ATTN: Document Control Desk Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
Mailstop T8-F5
United States Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Dear Sir:

**Re: 4th Quarter 2009 NRC Groundwater Sampling
Results and Monitoring Well Status
Stepan Company, 100 West Hunter Ave.
Maywood, New Jersey
NRC License STC-1333**

This letter provides a summary of the 4th quarter 2009 NRC groundwater analytical results for the above-referenced Site. The attached table presents a summary of the results. The NRC license at the Stepan Company site is suspended for Burial Pits #2 and #3, and USACE is responsible for radiation control and the protection of the public health and safety consistent with the requirements of 10 CFR Part 20. Only Wells #4 and #5 at Burial Pit #1 were accessible for sampling during the 4th quarter 2009 routine groundwater sampling event. The results for these wells were below 15 pCi/L for gross alpha. Due to access and health & safety issues, Stepan was unable to sample the remaining monitoring wells around these burial pits in the 4th quarter 2009.

In Stepan's November 17th letter, Stepan noted that we would work with USACE to gain access to the FUSRAP controlled wells for the 4th quarter sampling event. Subsequently, Stepan and CRA were informed that the USACE discussed sampling requirements with the NRC and the NRC agreed to suspend the sampling requirements of wells associated with the two burial pits (Burial Pit #2 and #3) currently being remediated as part of FUSRAP activities. It is our understanding that sampling requirements are suspended while the burial pits are in possession of USACE.



January 11, 2010

2

Reference No. 050681

Based on these comments, Stepan will continue to sample Wells 4 & 5, which are associated with Burial Pit #1 and are currently not impacted by FUSRAP activities. If you have any questions, please do not hesitate to call.

Sincerely,



Mark Stanek
Stepan Company

JAG/smk/3

Attachment

cc: Regional Administrator, Region I, NRC
Yolande Norman, NRC
Judith Joustra, NRC
Lydia W. Chang, NRC
Mark Roberts, NRC
Ed Troskowski, NJDEP
Allen Roos, USACE
Bill Kollar, Shaw
Christina King Loundy, Stepan Company
Jeff Nelson, Stepan Company
Mark Stanek, Stepan Company
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Laurie Matthews, Patton Boggs LLP
John Garges, CRA



Table 1
Analytical Results of Fourth Quarter 2009 NRC Well Sampling
Stepan Company
100 West Hunter Avenue
Maywood, New Jersey

Sample Identification	NRC Permit Criteria	Well 1	Well 2	Well 3	Well 4	Well 5	Well 7	Well 8	Well 9
Sample Date	(pCi/L)	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009	12/14/2009
<i>(all results in pCi/L)</i>									
Gross Alpha	15	NS	NS	NS	4.37	0.93	NS	NS	NS

Notes:

pCi/L = pico Curies per Liter.

Bold/Box = Analyte detected above Permit Criteria.

NS = Not Sampled