

August 22, 2011

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:

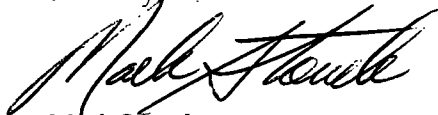
Re: 2<sup>nd</sup> Quarter 2011 NRC Groundwater Sampling Results  
Stepan Company, 100 West Hunter Ave.  
Maywood, New Jersey  
NRC License STC-1333

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This letter provides a summary of the 2<sup>nd</sup> Quarter 2011 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. Wells #1 through #5 and #7 through #9 were sampled during the 2<sup>nd</sup> Quarter 2011 routine groundwater sampling event. The results for these wells were below 15 pCi/L for gross alpha in June 2011.

If you have any questions, please do not hesitate to call.

Sincerely,



Mark Stanek  
Stepan Company

LRM/smk/8

## 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 Köllar, Shaw

Christina King-Loundy, Stepan Company

John McGahren, Patton Boggs LLP

Laurie Matthews, Patton Boggs LLP

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Nm 5501

**Table 1**  
Analytical Results of Second Quarter 2011 NRC Well Sampling  
Stepan Company  
100 West Hunter Avenue  
Maywood, New Jersey

Sample Identification	NRC Permit Criteria (pCi/L)	Well 1	Well 2	Well 3	Well 4	Well 5	Well 7	Well 8	Well 9
Sample Date		6/29/2011	6/29/2011	6/29/2011	6/29/2011	6/29/2011	6/30/2011	6/30/2011	6/30/2011
<i>(all results in pCi/L)</i>									
Gross Alpha	15	7.81	4.37	2.36	1.97	6.86	1.88	3.53	2.52

**Notes:**

pCi/L = pico Curies per Liter.

**Bold/Box** = Analyte detected above Permit Criteria.

NS = Not Sampled