

Mark A.
Gaetz/US-Corporate/
3M/US
08/02/2005 03:26 PM

To Todd Fasking
Tina M. Galloway/US-Corporate/3M/US@3M-Corporate
cc
bcc

Subject Fw: Cottage Grove Sludge Sample Results

Todd and Tina,
Please find below the results of the sludge sampling. Please note that we do not have the FC results yet and the final decision for the sludge must consider the FCs.

Mark A. Gaetz
Environmental Specialist
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----- Forwarded by Mark A. Gaetz/US-Corporate/3M/US on 08/02/2005 09:19 AM -----



"Savage,
e,
Janet
M."
<SavageJ@WestonSolutions.com>

To <magaetz@mmm.com>
cc "Savage, Janet M." <SavageJ@WestonSolutions.com>
"Kesari, Jai" <J.Kesari@WestonSolutions.com>
Subject Cottage Grove Sludge Sample Results

08/01/2005 03:45 PM

Dear Mark,
In this transmittal please find a summary of the sampling and analytical results for the ponds. If you have any questions or need further information, please do not hesitate to call me. Sincerely, Janet Savage

<<CGMN Summary of Sludge Sampling.doc>> <<PondABSamples.xls>>

Janet M. Savage, P.E.
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Summary of Sampling – July 2005
Cottage Grove, MN
Wastewater Pond Samples

On 7 July 2005, Weston Solutions, Inc. (WESTON) conducted sampling of sludge associated with two wastewater treatment ponds, Ponds A and B, at the 3M Cottage Grove, Minnesota facility. The purpose of the sampling was to characterize the material to develop appropriate disposal procedures as part of closure of the structures.

Both ponds were drained of fluids allowing the sludge to dry. Pond A has retained water resulting in areas of inundation primarily along the margins of the structure. Test borings within the pond indicate a thickness for the sludge greater than three feet. Since the interior of the pond could not be accessed, the maximum thickness of the sludge could not be determined.

Pond B was sufficiently dried to allow access to the interior of the pond. Borings within the pond indicate the sludge is approximately 1.5 to 2.0 feet thick over most of the area.

To evaluate sludge conditions, each pond was divided into three areas of approximately equal area. Within each area four borings were constructed to a depth of approximately 2.5 feet or to the bentonite liner, using a 1.25-inch polyethylene tube. Figure 1 shows the general sample locations. One location was selected from each area for volatile organic compounds (VOC) sampling. The sample was collected directly from the sludge core prior to disturbance. Following collection of the VOC sample, the remaining material was placed into a stainless steel bowl for mixing. After the material had been adequately blended, the remaining sample containers were filled, labeled, and placed into an ice chest cooled to approximately 4 degrees Celsius.

The samples were submitted for the following analyses:

- Total volatile organic compounds (VOCs)
- Total semi-volatile organic compounds (SVOCs)
- Total RCRA metals
- TCLP VOCs
- TCLP SVOCs
- TCLP RCRA Metals
- Corrosivity
- % Solids
- Fluorochemicals

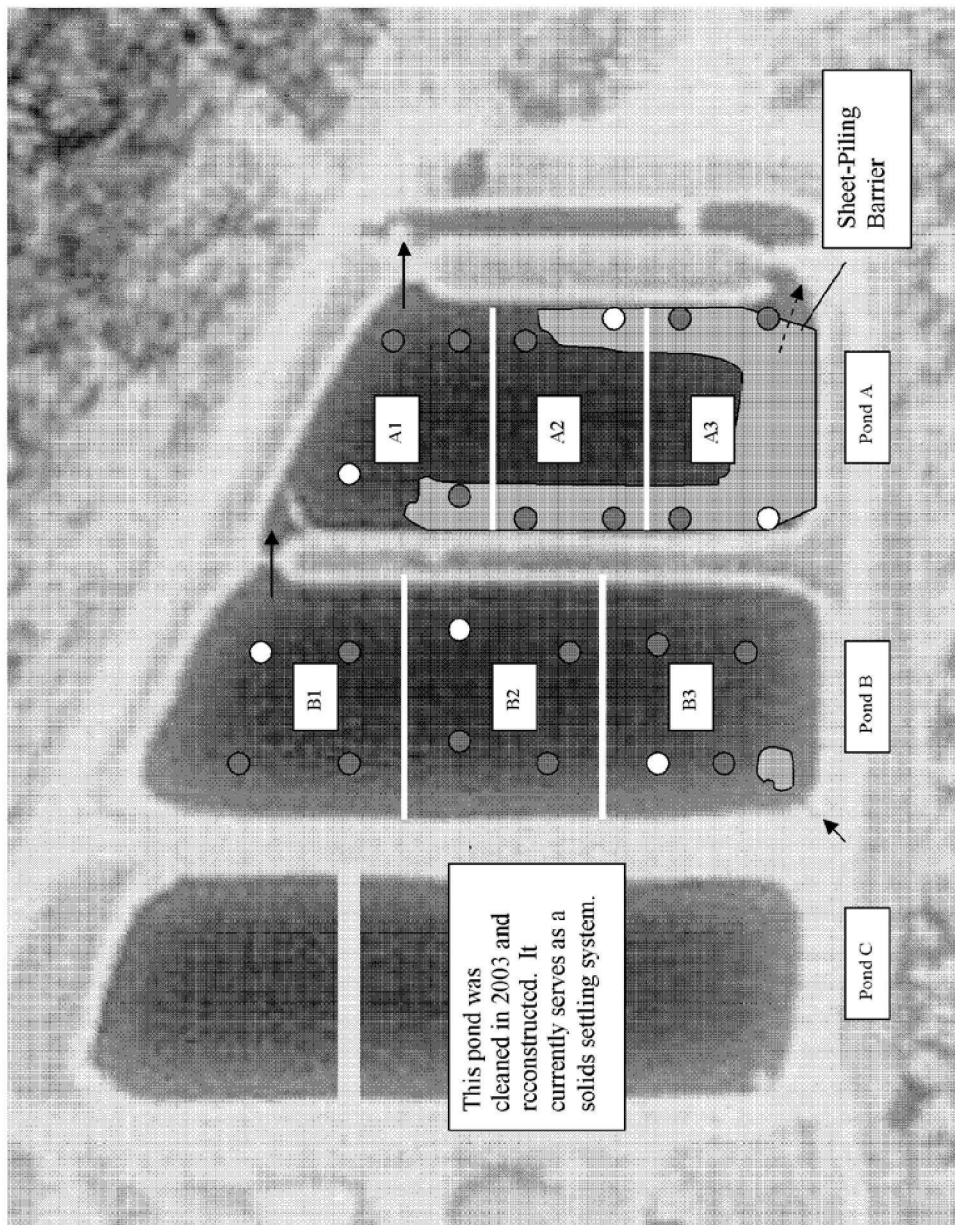


Figure 1. Aerial photo of wastewater ponds showing sample locations and significant features. White dots denote sample locations of samples for VOC analysis.

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