

July 25, 2005

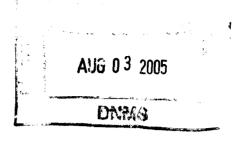
Ms. Beth Schlapper

U.S. Nuclear Regulatory Commission

Region IV: DNMS: NMLB

Suite 400

611 Ryan Plaza Drive Arlington, TX 76011



**SUBJECT:** 

ANALYTICAL RESULTS FOR NINE SWIPE SAMPLES COLLECTED JULY 13-

14, 2005 FROM KAISER ALUMINUM, TULSA, OKLAHOMA (INSPECTION REPORT #040-02377/05-004) [RFTA NO. 05-001]

Dear Ms. Schlapper:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received 8 soil samples and 9 swipe samples from Kaiser Aluminum, Tulsa, Oklahoma on July 18, 2005 for analysis. At your request, the swipe samples were processed as "urgent." The swipe samples were analyzed by gas-flow proportional counting (Procedure CP3, Revision 2). The measured alpha activity for each smear for "free release" was below the requested alpha release criteria of 50 dpm/100 cm<sup>2</sup>. The measured alpha activity for each smear from the "buried structure" was below the requested alpha release criteria of 94 dpm/100 cm<sup>2</sup>. The gross alpha activities for the swipes are presented in Table 1. The gamma spectroscopy data for the soil samples will be presented in a separate letter report under the same inspection report number.

ESSAP's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

Please contact me at (865) 241-3242 or Wade Ivey at (865) 576-9184 with any questions or comments.

Sincerely,

Dale Condra

Laboratory Manager

Environmental Survey and

Site Assessment Program

RDC/WPI:ar

Enclosure

cc:

T. McLaughlin, NRC/NMSS/T-7E18

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File 1668

R. Evans, Region IV

Distribution approval and concurrence: Initials Technical Management Team Member Quality Manager

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## **ORISE TABLE 1**

## GROSS ALPHA ACTIVITIES IN SWIPE SAMPLES BY LOW BACKGROUND ALPHA AND BETA COUNTING CP3, REVISION 2 KAISER ALUMINUM TULSA, OKLAHOMA

ESSAP Sample ID	NRC Region IV Sample ID	Concentrations (dpm/100 cm <sup>2</sup> )
		Gross Alpha <sup>a</sup>
1668R0001-1	NRC05-04-S1	$1.49 \pm 0.73^{b}$
1668R0001-2	NRC05-04-S2	$0.87 \pm 0.62$
1668R0001-3	NRC05-04-S3	$0.19 \pm 0.47$
1668R0001-4	NRC05-04-S4	$0.50 \pm 0.54$
1668R0001-5	NRC05-04-S5	$1.42 \pm 0.72$
1668R0001-6	NRC05-04-S6	$1.05 \pm 0.66$
1668R0001-7	NRC05-04-S7	$0.68 \pm 0.58$
1668R0001-8	NRC05-04-S8	$0.62 \pm 0.57$
1668R0001-9	NRC05-04-S9	$0.74 \pm 0.60$

<sup>&</sup>lt;sup>a</sup>The MDC for gross alpha for a 60 minute count is 0.89 dpm/wipe.

<sup>&</sup>lt;sup>b</sup>Uncertainties represent the 95% confidence level, based on total propagated uncertainties.