73564

November 4, 1997

Mr. Glenn Carlson
Missouri Department of
Natural Resources
7045 Highway 94 South
St. Charles, MO 63304

Dear Mr. Carlson:

TOTAL ACTIVITY ESTIMATION - QUARRY AREA

An estimation of the total radionuclide activity for each media in the quarry area has been prepared in response to your comments on the Draft Final of the *Remedial Investigation (RI) the Quarry Residuals Operable Unit.* Total activity has been estimated for those media with radionuclide activity greater than two times background. The calculated activity is that portion contributed to each media due to impact for the quarry bulk wastes and does not account for the natural activity contributed by background. For comparative purposes, estimation for background have also been provided.

This estimation does not have any impact on those radiochemical parameters which have been identified as contaminants of concern in the RI/BRA. Those radiochemical parameters are:

	Quarry Proper Soil & Fractures	Surface Water	Sediment	Quarry Grndwtr
Radium-226	X			
Radium-228	X			
Thorium-228	X			
Thorium-230	X			
Thorium-232	X			
Uranium	X	X	X	X

The results of this total activity estimation are in agreement with those Contaminants of Concern identified in the RI/BRA, indicating that those radiounuclides contributing to the total activity of the area are uranim in all media and Ra-226, Ra-228, Th-228, and Th-230 in the quarry proper soils and fractures.

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If you have further questions, please contact Becky Cato, Project Management Contractor (314)441-8086, ext. 3507.

Sincerely,
Original Signed By
Angela Pickett

Angela Pickett
Acting Deputy Project Manager
Weldon Spring Site
Remedial Action Project

cc: Dan Wall, EPA
Larry Erickson, MDNR
Mary Picel, ANL
Weldon Spring Citizens Commission
Gene Valett, PMC
Steve Warren, PMC
Becky Cato, PMC

EW-94:KReed:x7008:emh:10/24/97 (m:Total Activity Estimation)

CONCURRENCES/ REVIEWED BY:	
RTG SYMBOL	EW-94
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DATE	10/4/97
CONCURRENCE: RTG SYMBOL	EW-94
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