NP 9-2 Revision 2 Page 10 of 13

## Appendix B

NUCLEAR WASTE MANAGEMENT Sandia PROCEDURE National Laboratories	Parameter Problem Report (PPR)	Form Number: NP 9-2-2 Page 1 of 1
Material Abbreviated Name	SOLMOD3	100
Property Abbreviated Name	e: SOLSOH5	
Associated Analysis: (CCA, PAVT, AP-159, etc.)	CRA19	[-13-00
Effective Date:	4/16/2019	
Description of Problem		
MgEDTA2- pairs were ente entered as 2.0 when the co	binary Pitzer parameter for Ca2+ / EDTA4-, Mg2+ / MgE pred incorrectly in the EQ3/6 thermodynamic database Distrect value is 1.4. While this value is NOT a direct input to SOLSOH5 parameter value. This issue was uncovered dued by PPR 2019-003.	ATA0.FM4. They were to PA, it did have an
Requester (Print, Sign and	Date	
	Quality?  Yes  No (Initiate NP 16 –1 if yes)  Justification for no Condition Adverse to Quality	
output PA parameters from the impacted which precipitated the The humic colloids model uses calculated the humic colloids in adverse to quality existed. The SOLMOD3/SOLSOH5 parameter generation rate, and transport impacted by the change to the the WIPP PA Parameter Datal to quality is documented in me	ed, the first by Domski to determine if changes to the alpha(1) to be baseline solubility model. Domski determined that SOLMOD3 are need to evaluate downstream models which use the SOLMO as the SOLMOD3/SOLSOH5 parameter to calculate PHUSIM are nodel with the updated parameters and found that there was note third model was the PA model itself, Kim ran the model with the ter and found there was no change in the mobilized An(III), bristo the Culebra. The CCDFGF plots of total release of An(III) for SOLMOD3/SOLSOH5 parameter, therefore, there is no conditionase will not be updated. This problem resolution and justification and more considerable with the correction of the α1 terms of three Binary Pitzer Phrough 2019-013" (Domski, 2020).	3/SOLSOH5 had been 2D3/SOLSOH5 parameter. and PHUCIM. Mariner re- bo impact, i.e., no condition the updated ane pressure, hydrogen gas and the repository were not tion adverse to quality, and on for no condition adverse
Concurrence		
Paul E. Shoemaker PA Manager (Print, Sign ar		020
9	1-13-2020	
	INFORMATION ONLY	<b>Y</b>

QA Staff (F	Print. Sian	and I	Date)
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Parameter Problem Report No. (PPR)