Project: 07-3080.04 Work Order: (198315) 706234

LAB ID: SC&A Analysis Type: Gamma Spec
Reviewer: C. Bryson/S.Sedano

Date: 12-27-2007

Sample	Matrix	Collection Date	Date Received	Preparation Date	Hold Times Met? (Y, N< or N/A)	Analysis Date	Hold Times Met? (Y, N< or N/A)
SB-CZ-SS-2050-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2051-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2052-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2053-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2054-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2055-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2056-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2057-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2058-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2059-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2060-BA	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2050-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2051-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2052-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2053-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2054-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2055-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2056-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2057-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A
SB-CZ-SS-2058-BD	Soil	9-28-2007	11-28-2007	11-29-07	N/A	12-04-2007	N/A

Validation Item	Acceptable (YES)	Not Acceptable (NO)	Not Applicable (N/A)
Sample Chain of Custody Review	\ - <i>/</i>	\ - <i>\</i>	(- /
Are there printed names and signatures present in the Relinquished By and Received By Blocks?		X(1)	
Does the COC date match the Relinquished By date?	X		
Is the Received By date consistent with sample custody transfer (Relinquished By)?	Х		
Have all the samples listed on the Chain of Custody have been analyzed? (Verify this by checking that the Memo and/or case narratives are consistent with the COC Gamma Isotopes	Х		
Were the sample(s) preserved appropriately?			Х
Are all the samples included in the analytical report are listed correctly on the Chain of Custody?	Х		
Are the analytes reported consistent with the project requirements? (See Attached Sheet)	Х		
Sample Receipt Checklist Review			
Sample Receipt Checklist Review Did the laboratory complete the Sample Receiving Checklist?	l x		
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Did the laboratory complete the Sample Receiving Checklist? Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?). Comments: Case Narrative/Analytical Report Does the Case Narrative report submitted by the laboratory indicate any	X		
Did the laboratory complete the Sample Receiving Checklist? Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?). Comments: Case Narrative/Analytical Report	X X		

Are results that are flagged by laboratory necessary and complete, and are understandable comments provided? X Laboratory Quality Control Sample Review Did the laboratory properly complete all required laboratory quality control samples at required frequencies? LCS - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Matrix Spike - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Duplicates - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Spike - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Duplicates - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Duplicates - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent Blanks - 1 per matrix a	Validation Item	Acceptable	Not Acceptable	Not Applicable
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4. No Potential Blank contamination.	· · · · · · · · · · · · · · · · · · ·			
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Validation Item	Acceptable	Not Acceptable	Not Applicable	
Other Evaluation Factors		-		
If a result has an uncertainty greater than the result, is the uncertainty is less than the required detection limit?	Х			
Are the sample hold times acceptable? (Six months or less for all Rad except ³ H, which is three months or less)			Х	
Are total propagated uncertainty (TPU) values provided for all results?	X			
Are the aliquot sizes appropriate – (1 g minimum for dry solids)	X			
Are soil sample results reported on a dry-weight basis? (See Case Narrative)	X			
Were required detection limits achieved? (see "QA/QC Plan" Table 2.2)	X (5)			

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s soil sample results reported on a dry-weight basis: (See Gase Narrative)	^	
ere required detection limits achieved? (see "QA/QC Plan" Table 2.2)	X (5)	
omments:		
2. Detection limit of 0.5 pCi/g was met for all samples for Th-2	34	
2. Detection militar of the polity was more for an earnples for miles	5	