

GEOSCIENCES AND ENGINEERING DIVISION NONCONFORMANCE REPORT

Project No. 06002.01.222

NCR No. 2005-29

PART 1: DESCRIPTION OF NONCONFORMANCE

Acceptance criterion not met for all duplicate analyses. Procurement plan defined ± 0.5 permit criterion. Some differences were greater.

Initiated by: David Pickett

Date: 9/1/05

Action Required by: David Pickett

Response Due Date: 9/2/05

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: Accept results and pay invoices: Purchase Orders 575951J, 575952J, 576062J, and 576061J.
(Purchase requisitions 05025169, 05025190, 05029563, 05029545)

Basis of Disposition: Scientific Notebook 172, pp 96-102. For one type of analysis, criterion should have been 1 permit. For others, sample heterogeneity is probably a factor. Results will be reflected in reporting analytical uncertainty.

Action to Correct Nonconformance: None.

Target date for completion: NA

Proposed by:

David Pickett

Date:

9/2/05

PART 3: APPROVAL

Manager:

E.C. Dyer

Date:

9/6/2005

Director of QA:

RLB

Date:

9/6/05

Comments/Instructions:

PART 4: CLOSE OUT

Comments:

No action was necessary

Distribution:

Original-CENTER QA Records
ORIGINATOR
PRINCIPAL INVESTIGATOR
MANAGER
ASSISTANT DIRECTOR

Verified by:

RLB

Date:

9/23/05

Sample	Type	calcite d13C (PDB)	repeat	calcite d18O (SMOW)	repeat	weight % calcite	repeat	silicate d18O (SMOW)	repeat
N05-01	calcite	-0.8		17.3		78.2		20.1	
N05-02	calcite	0.0		20.9		69.0		5.6	
N05-03	calcite	-0.1		20.9		80.7		5.7	
N05-04	calcite	-1.3		18.8		76.6		21.6	
N05-05	calcite	-1.3		18.8		78.3			
N05-06	calcite	-1.6		19.8		91.5			
N05-07	calcite	-1.6		20.0		78.8			
N05-08	calcite	-3.1		22.1		36.4		14.1	14.0
N05-09	calcite	-3.4		21.7		49.8		14.0	
N05-10	calcite	-3.6		21.7		51.1		12.5	
N05-11	calcite	-3.6		21.7		60.3		14.1	
N05-12	calcite	-0.8		21.3		79.2			
N05-13		-1.4		19.1		80.5			
N05-14	calcite	-0.6		21.4		88.9			
N05-15	calcite	-4.9		21.7		63.6		16.2	
N05-16	calcite	-5.0	-5.2	21.7	21.8	76.6	66.2		
N05-17	caliche	-5.7		23.3		76.3		28.4	
N05-18	caliche	-5.7		23.7		79.8		29.3	29.6
N05-19	caliche	-5.5		24.1		33.7		28.2	
N05-20	caliche	-5.6		23.6		81.7		25.4	
N05-21	caliche	-6.4	-6.5	23.2	23.3	66.1	58.0	22.6	
N05-22	caliche	-6.3		23.0		80.0		22.2	
N05-23	caliche	-6.5	-6.4	23.1	23.3	71.0	74.7	24.1	23.9
N05-24	caliche	-6.5		23.3		75.8			
N05-25	caliche	-7.7		23.3		59.9		21.9	
N05-26	caliche	-7.6		23.5		61.8		22.2	22.0
N05-27	caliche	-7.6		23.4		66.6		19.5	
N05-28	caliche	-7.4		23.5		61.7		20.4	
N05-29	caliche	-10.4	-10.3	22.6	22.6	57.4	55.2	31.8	31.8
N05-30	caliche	-10.3		22.6		59.5		30.5	30.3
N05-31	caliche	-10.1	-10.1	22.6	22.5	59.2	58.7	29.6	
N05-32	caliche	-10.3		22.1		56.9		30.5	
N05-33	caliche	-6.2		23.6		60.9		31.9	
N05-34	caliche	-6.1		23.9		68.3		31.9	32.1

Sample	Type	calcite d13C (PDB)	repeat	calcite d18O (SMOW)	repeat	weight % calcite	repeat	silicate d18O (SMOW)	repeat
N05-35	caliche	-6.1	-6.1	23.7	23.8	70.6	68.5	32.2	
N05-36	calcite	-3.1		21.8		37.2		15.0	
N05-37	caliche	-6.0		23.8		70.2		30.5	
N05-38	caliche	-5.7		23.2		64.5		32.0	31.7
N05-39	caliche	-5.7		23.2		70.2		31.1	
N05-40	caliche	-6.5	-6.4	23.0	23.6	72.3	71.7	23.8	24.1
N05-41	caliche	-5.7		23.5		72.3		31.2	
N05-42	caliche	-5.7		23.3		75.1		31.3	31.6
N05-43	caliche	-7.8		22.2		52.4		30.7	
N05-44	caliche	-7.8		22.3		56.3		30.7	
N05-45	caliche	-7.8		22.5		57.0		31.0	
N05-46	caliche	-7.8		22.5		55.1			
N05-47	caliche	1.1	1.1	23.5	23.5	84.3	86.5	18.7	19.0
N05-48	caliche	1.1		23.4		81.5			
N05-49	caliche	-1.4		23.6		0.1		20.1	
N05-50	caliche	1.1	1.1	23.5	23.6	83.1	76.4	16.5	16.8
N05-51	caliche	1.1		23.5		81.3			
N05-52	calcite	1.2		17.3		93.9			
N05-53	calcite	-1.1		21.1		88.6			
N05-54	calcite	-1.1		21.3		92.8		17.6	
N05-55	calcite	-1.3	-1.3	21.5	21.4	83.1	79.7		
N05-56	calcite	-1.3		21.2		82.2			
N05-57	caliche	-0.6		20.5		0.5		21.4	
N05-58	caliche							20.8	21.1
N05-59	caliche							21.4	
N05-60	caliche	-5.7	-5.7	23.6	23.4	66.9		32.0	
N05-61	caliche							20.5	
N05-62	caliche	-10.4		22.8		63.4		30.2	
N05-63	caliche	-7.8		23.1		56.5		30.1	30.5
N05-64	calcite	-1.2		21.6		86.2		15.2	
N05-65	calcite	-0.6		21.3		84.0		13.0	

Req No: 05025169

AKB 6/8/05

CNWRA PROCUREMENT PLAN

The following information is required when purchasing quality affecting items, services, or materials from a supplier not listed on the SwRI Approved Suppliers List.

Item or Activity to Be Procured	Action or Tests Required to Assure Quality
<input checked="" type="checkbox"/> Laboratory Analysis	<input type="checkbox"/> Provide blind samples with known compositions to the non-ASL supplier to provide confidence in reported results (Preferred approach) <input checked="" type="checkbox"/> Provide duplicate samples to the non-ASL supplier to provide confidence in reported results <input type="checkbox"/> Other (describe)
<input type="checkbox"/> Metals, Chemical Standards or other samples	<input type="checkbox"/> Perform confirmatory sample analysis with an ASL supplier in accordance with QAP-018
<input type="checkbox"/> Special Processes	<input type="checkbox"/> (describe)
<input type="checkbox"/> Other (explain)	<input type="checkbox"/> (describe)

Proposed Supplier: THE STABLE ISOTOPE LABORATORY - SOUTHERN METHODIST UNIVERSITY

Reason for not using an ASL supplier or for not placing this supplier on the ASL:

- No ASL supplier is capable of providing the required items/services.
- Desired supplier does not have a quality program.
- Other:

Acceptance Criteria: ± 0.5 permil on duplicate analyses

Procurement Plan Initiated By: BRADLEY WERLING Date: 6-8-05

Approved: *Mauph. Shustrom* Date: 6/8/05
Director of CNWRA Quality Assurance
for RDB

Results of Receipt Inspection: Accept Reject NCR Number: _____

Reference Documentation Location: Scientific notebook 172, pp 96-102.

Performed By: David Pickett Date: 9/1/05

Req No 05025170
 90 RME 6/8/05

CNWRA PROCUREMENT PLAN

The following information is required when purchasing quality affecting items, services, or materials from a supplier not listed on the SwRI Approved Suppliers List.

Item or Activity to Be Procured	Action or Tests Required to Assure Quality
<input checked="" type="checkbox"/> Laboratory Analysis	<input type="checkbox"/> Provide blind samples with known compositions to the non-ASL supplier to provide confidence in reported results (Preferred approach) <input checked="" type="checkbox"/> Provide duplicate samples to the non-ASL supplier to provide confidence in reported results <input type="checkbox"/> Other (describe)
<input type="checkbox"/> Metals, Chemical Standards or other samples	<input type="checkbox"/> Perform confirmatory sample analysis with an ASL supplier in accordance with QAP-018
<input type="checkbox"/> Special Processes	<input type="checkbox"/> (describe)
<input type="checkbox"/> Other (explain)	<input type="checkbox"/> (describe)

Proposed Supplier: THE STABLE ISOTOPE LABORATORY - SOUTHERN METHODIST UNIVERSITY

Reason for not using an ASL supplier or for not placing this supplier on the ASL:

- No ASL supplier is capable of providing the required items/services.
- Desired supplier does not have a quality program.
- Other:

Acceptance Criteria: ± 0.5 permil on duplicate analyses

Procurement Plan Initiated By: BRADLEY WERLING Date: 6-8-05

Approved: Mark R. Shusterman Date: 6/8/05
 Director of CNWRA Quality Assurance
 for RDB

Results of Receipt Inspection: Accept Reject NCR Number: _____

Reference Documentation Location: Scientific notebook 172, pp 96-102

Performed By: David Pickett Date: 9/1/05

CNWRA PROCUREMENT PLAN

The following information is required when purchasing quality affecting items, services, or materials from a supplier not listed on the SwRI Approved Suppliers List.

Item or Activity to Be Procured	Action or Tests Required to Assure Quality
<input checked="" type="checkbox"/> Laboratory Analysis	<input type="checkbox"/> Provide blind samples with known compositions to the non-ASL supplier to provide confidence in reported results (Preferred approach) <input checked="" type="checkbox"/> Provide duplicate samples to the non-ASL supplier to provide confidence in reported results <input type="checkbox"/> Other (describe)
<input type="checkbox"/> Metals, Chemical Standards or other samples	<input type="checkbox"/> Perform confirmatory sample analysis with an ASL supplier in accordance with QAP-018
<input type="checkbox"/> Special Processes	<input type="checkbox"/> (describe)
<input type="checkbox"/> Other (explain)	<input type="checkbox"/> (describe)

Proposed Supplier: THE STABLE ISOTOPE LABORATORY - SOUTHERN METHODIST UNIVERSITY

Reason for not using an ASL supplier or for not placing this supplier on the ASL:

- No ASL supplier is capable of providing the required items/services.
- Desired supplier does not have a quality program.
- Other:

Acceptance Criteria: Use duplicate analyses of ± 0.5 per mil from purchase requisition 05025190

Procurement Plan Initiated By: BRADLEY WERLING Date: 7-20-05

Approved: (approved electronically) PAF 9/1/05 Date: _____
 Director of CNWRA Quality Assurance

Results of Receipt Inspection: Accept Reject NCR Number: _____

Reference Documentation Location: Scientific notebook 172, pp 96-102.

Performed By: David Pickett Date: 9/1/05

CNWRA PROCUREMENT PLAN

The following information is required when purchasing quality affecting items, services, or materials from a supplier not listed on the SwRI Approved Suppliers List.

Item or Activity to Be Procured	Action or Tests Required to Assure Quality
<input checked="" type="checkbox"/> Laboratory Analysis	<input type="checkbox"/> Provide blind samples with known compositions to the non-ASL supplier to provide confidence in reported results (Preferred approach) <input checked="" type="checkbox"/> Provide duplicate samples to the non-ASL supplier to provide confidence in reported results <input type="checkbox"/> Other (describe)
<input type="checkbox"/> Metals, Chemical Standards or other samples	<input type="checkbox"/> Perform confirmatory sample analysis with an ASL supplier in accordance with QAP-018
<input type="checkbox"/> Special Processes	<input type="checkbox"/> (describe)
<input type="checkbox"/> Other (explain)	<input type="checkbox"/> (describe)

Proposed Supplier: THE STABLE ISOTOPE LABORATORY - SOUTHERN METHODIST UNIVERSITY

Reason for not using an ASL supplier or for not placing this supplier on the ASL:

- No ASL supplier is capable of providing the required items/services.
- Desired supplier does not have a quality program.
- Other:

Acceptance Criteria: Use duplicate analyses of ± 0.5 permil from purchase requisition 05025169

Procurement Plan Initiated By: BRADLEY WERLING Date: 7-20-05

Approved: (approved electronically) DAP 9/1/05 Date: _____
 Director of CNWRA Quality Assurance

Results of Receipt Inspection: Accept Reject NCR Number: _____

Reference Documentation Location: Scientific notebook 172, pp 2^{DAP} 9/1/05 96-102.

Performed By: David Lickett Date: 9/1/05