

**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

STL Knoxville Lot Number: HLDD04001
STL Knoxville Project Number: 142541

NOTE: After Log-In, please send a copy of the completed RFA/COC to STL Knoxville c/o Patti Carswell.

Project Identification: Westates Carbon CPT		Laboratory Deliverable Turnaround Requirements:	
STL Knoxville Project Number:	142541	Analytical Due Date:	21 Days from Lab Receipt (Review-Released Data)
STL Contact:	Ms. Patti Carswell (865) 291-3010	Data Package Due Date:	21 Days from Lab Receipt
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080	Laboratory Destination:	Galbraith Laboratories 2323 Sycamore Drive Knoxville, Tennessee 37921
Analytical Testing QC Requirements: The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, and "PDS" = Post Digestion Spike		Courier:	FedEx/Hand Deliver
Project Deliverables: Report analytical results in a data package. Include "Field Number", "Sample Type", and "Run Number" on all Reports.			
Holding Time Requirements:			
Ultimate (Elemental) Analysis		30 Days to Analysis.	

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2887-R1-Spent Activated Carbon	3-28-06	DUP	125 mL Powder Jar	Spent Activated Carbon - Run #1 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.
G-2985-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	Spent Activated Carbon - Run #2 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.
G-3068-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	Spent Activated Carbon - Run #3 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.

**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

HWS040101

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

N/A

(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

5.0°C

(3) Record any apparent sample loss/breakage.

N/A

(4) Record any unidentified samples transported with this shipment of samples:

N/A

(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

N/A

Custody Transfer:

Hand delivered

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

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Sample Receipt Documentation.....	6
Subcontract.....	16
Sample Receipt Documentation.....	69
Total Number of Pages	75

SEVERN
TRENT

STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates ULT

Lot #: H6D040101

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

May 4, 2006

PROJECT NARRATIVE

H6D040101

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Subcontract

The following analyses were performed by Galbraith Laboratory, Inc. 2323 Sycamore Dr. Knoxville, TN 37921: Carbon, Hydrogen, Nitrogen, Oxygen, Sulfur.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met, and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

LABORATORY REPORT

Kevin S Woodcock
Severn Trent Labs
5815 Middlebrook Pike
Knoxville TN 37921

AMENDED REPORT

Date Amended: 06/21/06
Purchase Order #: H6D040101
Original Report Date: 04/20/06
Fax Number: 865-584-4315

SAMPLE ID	LAB ID	ANALYSIS	RESULTS		DUPLICATE(S)	
G-2887-R1-Spent Activated Carbon STL Lot No: H6D040101-001	Y-8435	Carbon	61.29	%	64.63	%
		Hydrogen	4.10	%	3.74	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	<0.2	%
G-2985-R2-Spent Activated Carbon STL Lot No: H6D040101-002	Y-8436	Carbon	67.57	%	63.58	%
		Hydrogen	2.92	%	3.71	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	<0.2	%
G-3068-R3-Spent Activated Carbon STL Lot No: H6D040101-003	Y-8437	Carbon	60.22	%	49.02	%
		Hydrogen	3.90	%	4.52	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	0.25	%

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LABORATORY REPORT

Kevin S Woodcock
Severn Trent LabsReport Date:
Lab ID #:06/21/06
Y-8435-8437

TECHNICAL INFORMATION

The precision demonstrated by the carbon, hydrogen, oxygen and sulfur results for these samples is significantly less than the precision that is typically seen for these samples.

* We regret that we are unable to determine the oxygen due to a matrix interference.

Sulfur standard is whole egg powder, C/N 10991:

<u>Weight</u>	<u>% Sulfur found</u>
29.92 mg	0.4775 %
40.00 mg	0.4781 %
69.82 mg	0.4819 %
100.20 mg	0.4873 %
134.87mg	0.4949 %
164.94 mg	0.5016 %
174.99 mg	0.5064 %

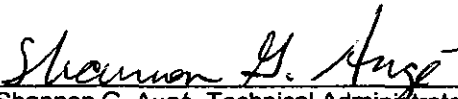
Theory = 0.512 % $\pm$ 0.050 %

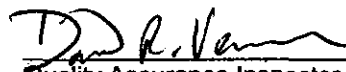
CHN standard is 2:4 D, C/N 11201:

The weights used to calibrate with are 1.689 mg and 1.806 mg. The instrument automatically calculates factors based on the readings for the calibration standards.

	<u>Theory</u>
Carbon	51.79 %
Hydrogen	5.07 %
Nitrogen	20.14 %

Authorized Release of Data


Shannon G. Augé, Technical Administrator


Quality Assurance Inspector

SGA:yb

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Page 2 of 2

Sample Receipt Documentation

**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

STL Knoxville Lot Number: ABD040101
STL Knoxville Project Number: 142541

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**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

H162040101

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

N/A

- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

5.0°C

- (3) Record any apparent sample loss/breakage.

N/A

- (4) Record any unidentified samples transported with this shipment of samples:

N/A

- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

N/A

Custody Transfer:

Hand delivered

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: FocusProject: Westates CarbonLot Number: H60040101

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	<u>14 - COC not Relinquished (Signed, Dated, Timed)</u>
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?		✓		☒ 4a Not present ☐ 4b Not intact ☐ 4c Other: <u>Hand delivered</u>	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference ☐ 10a Holding time expired	
10. Were samples received within holding time?	✓			☐ Incomplete information	
11. For rad samples, was sample activity info. provided?			✓	If yes & appears to be >1%, was SOG notified? _____	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓		
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: (e435)

PM Instructions: _____

Sample Receiving Associate: [Signature]Date: 4/3/06

QA026R18.doc, 1/30/06

SUBMITTER INFORMATION

Sample I.D. G-2887-R1-Spent Activated Carbon

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address: (Line 1) 5815 Middlebrook Pike

(Line 2) _____

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # _____ Amount \$ _____

Quotation # (if applicable) _____

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name _____

Acct # _____

Expiration Date _____

Signature _____

Address: (Line 1) _____

(Line 2) _____

City _____ State/Province _____

Postal Code _____

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

☐ Freeze @ -10 to -20°C ☐ Sensitive to _____

☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂* _____

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar* _____

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection (Specify): _____

☐ Non-hazardous

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves (Specify): _____

☐ Carcinogenic/Toxic

☐ Explosive

☐ MSDS (Include) ☐ Other Protective Equipment (Specify): _____

☐ Pyrophoric

☐ Volatile

☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (if Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other _____

AUTHORIZED RELEASE OF INFORMATION

Galbraith releases information regarding work received to only the submitter named on this form. With authorization, we may release information to others, such as work associates. If appropriate, please list names below. ☒ Yes ☐ No (please initial)

Diane Lange or Billy Anderson

SAMPLE RETURN / DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Date 4/4/06

include a return address if different from the report address:
STL Knoxville will pick-up all excess volume.

State/Province _____

Postal Code _____

COMMENTS

Include this RFA / CoC with the raw data report.

x results, 6-10 DAY Raw data (Final Report) needed.

copy data report as soon as possible

o.: H6D040101-001

COOLER - RTN-yes

INFO PER
PO / LTR / COEC

* See Notes on reverse side for additional charges that may apply.
Form 3.1.1A (Rev 7)

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Repli
☒ Regular	☐ Phone Results	☐ Basic	☐ Sin
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☒ Du
☐ 24-48 Hour Rush*	☐ Raw Data Copies*	☐ Regulatory*	☐ Du
	☒ QC Summary*	☐ Custom*	☐ onl
			☐ ana
			☐ dis
			☐ with
			☐ or r
			☐ Tri
			☐ Ott

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐
☐ Drug	☐ Organometallic	☐ Polymer	☐
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic	☐ RDF	☐	☐ Waste

Please provide a "stand alone"

RAW DATA & QC Summary for these samples.

Thank you,
Kevin Woodcock
291-3082

EXACT COPY OF
RAW DATA

5/9/06

UNKNOWN

SUBMITTER INFORMATION

Sample I.D. G-2985-R2-Spent Activated Carbon X
Amount of Sample ~125mL powder jar
To: Mr. Kevin S. Woodcock
Title Project Manager
Company STL Knoxville
Address:
(Line 1) 5815 Middlebrook Pike
(Line 2) _____
City Knoxville State/Province TN
Country USA Postal Code 37921
Phone 291-3082 Fax 584-4315
E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101
Prepayment Check # _____ Amount \$ _____
Quotation # (if applicable) _____
Credit Card: ☐ Visa ☐ MasterCard ☐ American Express
Card Holder Name _____
Acct # _____
Expiration Date _____
Signature _____
Address:
(Line 1) _____
(Line 2) _____
City _____ State/Province _____
y _____ Postal Code _____

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☒ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☐ Duplicate*
☐ 24-48 Hour Rush*	☐ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only if 1 st analysis disagrees with theory or range*
	☒ QC Summary*	☐ Custom*	☐ Triplicate*
			☐ Other*

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other Waste
☐ Inorganic	☐ RDF		

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum
☐ Freeze @ -10 to -20°C ☐ Sensitive to _____
☐ Grind* _____
☐ Hygroscopic ☐ Weigh under N₂*
☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar*

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection
☐ Non-hazardous (Specify): _____
☒ Hazardous
☐ Biohazardous* ☐ Skin Absorption: Gloves
☐ Carcinogenic/Toxic (Specify): _____
☐ Explosive
☐ MSDS (Include) ☐ Other Protective Equipment
☐ Pyrophoric (Specify): _____
☐ Volatile
☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg
Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (If Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,05373,
EXACT COPY OF RAW DATA			
SLATE			
CONDITION LEVEL CG			
IN: BOX COOLER LETTER			
ON: DRY ICE COOLER PACKS			
ICE ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT

STANDARD TYPING
HAZARDOUS WASTE

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA		FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP	☐ Other
☐ FIFRA	☐ TSCA	☐ GMP	
☐ GLP	☐ Drinking Water		

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Diane Lange or Billy Anderson

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This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Signature DLW Date 4/4/06

Please include a return address if different from the report address:
(Line 1) STL Knoxville will pick-up all excess volume.

(Line 2) _____

City _____ State/Province _____

Country _____ Postal Code _____

COMMENTS

Please include this RFA / CoC with the raw data report.

10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.

Final Hardcopy data report as soon as possible

* STL Lot No.: H6D040101-002

SUBMITTER INFORMATION

Sample I.D. G-3068-R3-Spent Activated Carbon

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address:
(Line 1) 5815 Middlebrook Pike

(Line 2)

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # Amount \$

Quotation # (if applicable)

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name

Acct #

Expiration Date

Signature

Address: APR - 5 2006
(Line 1)

(Line 2)

City State/Province

y Postal Code

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
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	☒ Raw Data Copies*	☐ Custom*	
	☒ QC Summary*		☐ Triplicate*
			☐ Other*

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic		☐ RDF	Waste

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

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☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂* _____

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar* _____

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection

☐ Non-hazardous (Specify): _____

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves

☐ Carcinogenic/Toxic (Specify): _____

☐ Explosive

☐ MSDS (Include) ☐ Other Protective Equipment

☐ Pyrophoric (Specify): _____

☐ Volatile

☐ Other _____

MP _____ °C _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

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If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (If Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373,
EXACT COPY OF			
5/9/06			
CONDITION RECEIVED			
IN: BOX COOLER LETTER			
ON: DRY ICE COOLER PACK			
ICE ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT

STAPLED TO ORIGINAL

HAZARD UNKNOWN

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	

AUTHORIZED RELEASE OF INFORMATION

Galbraith releases information regarding work received to only the submitter named on this form. With authorization, we may release information to others, such as work associates. If appropriate, please list names below. ☒ Yes ☐ No (please initial)

Diane Lange or Billy Anderson

SAMPLE RETURN/ DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Signature Date 4/4/06

Please include a return address if different from the report address:
(Line 1) STL Knoxville will pick-up all excess volume.

(Line 2)

City State/Province

Country Postal Code

COMMENTS

Please include this RFA / CoC with the raw data report.

10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.

Final Hardcopy data report as soon as possible

STL Lot No.: H6D040101-003

SUBMITTER INFORMATION

Sample I.D. G-2887-R1-Spent Activated Carbon *

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address: 5815 Middlebrook Pike
(Line 1)

(Line 2)

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # _____ Amount \$ _____

Quotation # (if applicable) _____

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name _____

Acct # _____

Expiration Date _____

Signature _____

Address: 5815 Middlebrook Pike
(Line 1)

(Line 2) Y-8435-31

City _____ State/Province _____

Postal Code _____

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☐ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☒ Duplicate
☐ 24-48 Hour Rush*	☒ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only
	☒ QC Summary*	☐ Custom*	☐ Duplicate and analysis with or without trip

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐
☐ Drug	☐ Organometallic	☐ Polymer	☐
☐ Food	☐ Paint/Ink	☐ Protein	☐
☐ Inorganic	☐ RDF	☐ Other Waste	☐

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

☐ Freeze @ -10 to -20°C ☐ Sensitive to _____

☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂*

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar*

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection (Specify): _____

☐ Non-hazardous

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves (Specify): _____

☐ Carcinogenic/Toxic

☐ Explosive

☐ MSDS (Include) ☐ Other Protective Equipment (Specify): _____

☐ Pyrophoric

☐ Volatile

☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (If Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other

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Diane Lange or Billy Anderson

SAMPLE RETURN / DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Date 4/4/06

include a return address if different from the report address:
STL Knoxville will pick-up all excess volume.

State/Province _____

Postal Code _____

COMMENTS

Include this RFA / CoC with the raw data report.

Extra results, 6-10 DAY Raw data (Final Report) needed.

copy data report as soon as possible

Please provide a "stand alone" Raw DATA & QC Summary for these samples.

Thank you,
Kevin Woodcock
291-3082

EXACT COPY OF RAW DATA
5/9/06

UNKNOWN

o.: H6D040101-001

COOLER - RTN-yes

INFO PER
PO / LTR / COEC

SUBMITTER INFORMATION

Sample I.D. G-2985-R2-Spent Activated Carbon X
Amount of Sample ~125mL powder jar
To: Mr. Kevin S. Woodcock
Title Project Manager
Company STL Knoxville
Address:
(Line 1) 5815 Middlebrook Pike
(Line 2) _____
City Knoxville State/Province TN
Country USA Postal Code 37921
Phone 291-3082 Fax 584-4315
E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101
Prepayment Check # _____ Amount \$ _____
Quotation # (if applicable) _____
Credit Card: ☐ Visa ☐ MasterCard ☐ American Express
Card Holder Name _____
Acct # _____
Expiration Date _____
Signature _____
Address:
(Line 1) _____
(Line 2) _____
City _____ State/Province _____
y _____ Postal Code _____

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☒ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☐ Duplicate*
☐ 24-48 Hour Rush*	☒ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only if 1 st analysis disagrees with theory or range*
	☒ QC Summary*	☐ Custom*	☐ Triplicate*
			☐ Other*

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic		☐ RDF	Waste

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum
☐ Freeze @ -10 to -20°C ☐ Sensitive to _____
☐ Grind* _____
☐ Hygroscopic ☐ Weigh under N₂*
☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar*

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection
☐ Non-hazardous (Specify): _____
☒ Hazardous
☐ Biohazardous* ☐ Skin Absorption: Gloves
☐ Carcinogenic/Toxic (Specify): _____
☐ Explosive
☐ MSDS (Include) ☐ Other Protective Equipment
☐ Pyrophoric (Specify): _____
☐ Volatile
☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg
Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (If Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373,
EXACT COPY OF RAW DATA			
STATE			
CONDITION LEVEL CG			
IN: BOX COOLER LETTER			
ON: DRY ICE COOLER PACKS			
ICE ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT

STANDARD PACKAGING
HAZARDOUS

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other

AUTHORIZED RELEASE OF INFORMATION

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Diane Lange or Billy Anderson

SAMPLE RETURN / DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Signature DLW Date 4/4/06

Please include a return address if different from the report address:
(Line 1) STL Knoxville will pick-up all excess volume.

(Line 2) _____

City _____ State/Province _____

Country _____ Postal Code _____

COMMENTS

Please include this RFA / CoC with the raw data report.

10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.

Final Hardcopy data report as soon as possible

* See Notes on reverse side for additional charges that may apply.
STL Lot No.: H6D040101-002

SUBMITTER INFORMATION

Sample I.D. G-3068-R3-Spent Activated Carbon

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address:
(Line 1) 5815 Middlebrook Pike

(Line 2) _____

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # _____ Amount \$ _____

Quotation # (if applicable) _____

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name _____

Acct # _____

Expiration Date _____

Signature _____

Address: APR - 5 2006

(Line 1) _____

(Line 2) _____

City _____ State/Province _____

y _____ Postal Code _____

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☒ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☐ Duplicate*
☐ 24-48 Hour Rush*	☒ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only if 1 st analysis disagrees with theory or range*
	☒ QC Summary*	☐ Custom*	☐ TriPLICATE*
			☐ Other*

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic		☐ RDF	Waste

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

☐ Freeze @ -10 to -20°C ☐ Sensitive to _____

☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂*

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar*

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection

☐ Non-hazardous (Specify): _____

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves

☐ Carcinogenic/Toxic (Specify): _____

☐ Explosive

☐ MSDS (Include) ☐ Other Protective Equipment

☐ Pyrophoric (Specify): _____

☐ Volatile

☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (if Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373
EXACT COPY OF			
RAW DATA			
5/9/06			
CONDITION RECEIVED			
IN: BOX COOLER LETTER			
ON: DRY ICE COOLER PACKS			
ICE ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT

STANDARD UNKNOWN

HAZARDOUS UNKNOWN

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other

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Signature _____ Date 4/4/06

Please include a return address if different from the report address:

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(Line 2) _____

City _____ State/Province _____

Country _____ Postal Code _____

COMMENTS

Please include this RFA / CoC with the raw data report.

10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.

Final Hardcopy data report as soon as possible

STL Lot No.: H6D040101-003

Subcontract

Organic Waste Hazardous

ISP*Special Pricing

11/3 4/27/04

② crossout error
NFO 4/24/06

Project Management Sheet

Lab ID #s

Y- 8435-37

Project Manager

WML

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	<i>Indo</i>	<i>mediate</i>	Compendia Source:	Rev: Exp.
Test Material Type: <i>Waste</i>	Contract Review: <i>NA</i>			Assigned to Dept by: <i>WML</i>	Received in Dept by: <i>SHS</i>	
			TM Initial and date: <i>4/4/06</i>			

Client Specs	Analysis	<i>Sulfur</i>	<i>Sulfur mds</i>					
	Material Specs							
	Required detection limits							
	Procedure Number	<i>E16-26</i>	<i>E16-2A</i>					
Technical Instructions	Special Instructions (including pre-analysis handling)	<i>dup</i>	<i>dup</i>					
	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
Training Review	<i>WML</i> Project Manager	Analyst <i>NEO</i>	Analyst <i>NEO</i>	Analyst _____	Analyst _____			
	<i>SHS</i> Group Lead	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
	Analyst _____	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
Maintenance Log	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	<i>194</i>	<i>NEO 4/14/06</i>	<i>194</i>	<i>NEO 4/14/06</i>				
	<i>352</i>	<i>NEO 4/14/06</i>	<i>352</i>	<i>NEO 4/14/06</i>				

EXACT COPY OF

Reporting Requirements / Compliance Statement / Reporting Format:

RAW DATA

5/9/06

SHS
SHS 4/17/06

INSPECTED

4/21/06
8435-37

Total Pages:	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

Project Management Sheet

Lab ID #s Y-8435-37Project Manager WZ

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	Intermediate		Compendia Source:	Rev: Exp.
Test Material Type: <u>Waste</u>	Contract Review: <u>NA</u>		Assigned to Dept by: <u>WZ 4/6/06</u>		Received in Dept by: <u>SLS 4/7/06</u>	
TM Initial and date						

Client Specs	Analyte	<u>CHN</u>			
	Material Specs				
Technical Instructions	Required detection limits				
	Procedure Number	<u>ME 2</u>			
Special Instructions (including pre-analysis handling)		<u>one dup with 4/6/06 need dup on cell</u>			
		<u>dup</u>			
Training Review	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.				
	<u>WZ</u> Project Manager <u>SLS 4/10/06</u> Group Lead	Analyst <u>WZ</u>	Analyst _____	Analyst _____	Analyst _____
Maintenance Log	Analyst _____	Analyst _____	Analyst _____	Analyst _____	
	Analyst _____	Analyst _____	Analyst _____	Analyst _____	
Reporting Requirements / Compliance Statement / Reporting Format:	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #
	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
Reporting Requirements / Compliance Statement / Reporting Format:	139	<u>WZ 4/10/06</u>			
	410	<u>WZ 4/10/06</u>			
Reporting Requirements / Compliance Statement / Reporting Format:					
Reporting Requirements / Compliance Statement / Reporting Format:					
Reporting Requirements / Compliance Statement / Reporting Format:					

SHS
SLS 4/10/06EXACT COPY OF
RAW DATA
5/9/06
CGY-8435-37
4/21/04
INSPECTED

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

Project Management Sheet

Lab ID #s Y-8435-37Project Manager WML

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	Intermediates		Compendia Source:	Rev: Exp.
Test Material Type: <u>Waste</u>	Contract Review: <u>NA</u> <u>4/6/06</u> WML TM Initial and date			Assigned to Dept by: <u>WML 4/6/06</u>		Received in Dept by: <u>STB 4/7/06</u>

Client Specs	Analyte	<u>0</u>						
	Material Specs							
	Required detection limits							
	Procedure Number	<u>E8-3</u> <u>WML 4/11/06</u> <u>E6-3</u> <u>wrong method #</u>						
Technical Instructions	Special Instructions (including pre-analysis handling)	<u>dup</u>						
	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
Training Review	<u>WML</u> Project Manager	Analyst <u>STB 4/11/06</u>	Analyst _____	Analyst _____	Analyst _____			
	<u>STB 4/11/06</u> Group Lead	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
		Analyst _____	Analyst _____	Analyst _____	Analyst _____			
Maintenance Log Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	<u>Bal #123</u>	<u>STB 4/11/06</u>						
	<u>Snat #45</u>	<u>STB 4/11/06</u>						
	<u>415 Q</u>							

Reporting Requirements / Compliance Statement / Reporting Format:

① wrote instrument # incorrectly (left out <1>) STB 4/11/06

Total/Range	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

EXACT COPY OF
RAW DATA5/9/06
CC

INSPECTED

WML 4/21/06
Y-8435-37

Galbraith Laboratories, Inc.

Carbon, Hydrogen and Nitrogen by the PerkinElmer Elemental Analyzer (#240)
Procedure #ME-2

Analyst: WZ Date: 4/17/06 Instrument #: 409 Balance #: 139 C/N 11201

Run	Lab ID	Weight (mg)	Notes	Run	Lab ID	Weight (mg)	Notes
1	BA Cond		0.6	16	Y-8570	1.114	TA BH
2	S-1409	1.632	20.16, 51.71, 5.08	17	S-1409	1.641	20.12, 51.63, 5.08
3	Y-8438	2.016	CRM QA Inter. ASTM D5373				
4	Y-8438	1.839	CRM QA Inter. ASTM D5373				
5	Y-8439	1.540	CRM QA Inter. ASTM D5373				
6	Y-8579	1.219	CRM				
7	Y-8580	1.404	CRM				
8	Y-8415	1.761	(FDA GMP)				
9	Y-8415	1.775	(FDA GMP)				
10	Y-8516	1.692	TA BH RFG 1:05 PM				
11	Y-8517	1.068	TA BH RFG 1:20 PM				
12	Y-8521	1.597					
13	S-1409	1.617	20.23, 51.92, 5.04				
14	Y-8522	1.570					
15	Y-8569	1.099	TA BH				

EXACT COPY OF
RAW DATA

28/06 CO

Comments:

INSPECTED
4/10/06
Y-8438-39, 4/10/06
Y-8415

Data Review and Approval

5/4/06/06

SHS

Calculations: Direct Readout

Blanks	Factors	CRM b1k
N-0.3	N-6.74	10.6
C-5	C-18.20	
H-7.8	H-53.41	

RUN # 1
BA COND

RUN # 2
S-1409

RUN # 3
QA INTERMEDIATE CRM
ASTM D5373

**** BLANK ****

**** SAMPLE ****

**** SAMPLE ****

SAMPLE I.D. ? 2:40
SAMPLE WT? 1.632

SAMPLE I.D. ? Y-0430
SAMPLE WT? 2.016

NZ
003054
003055
003055
003055
3055

NZ
003050
003050
003050
003050
003050
3050

CZ
002460
002460
002460
002460
2460

CZ
002459
002459
002459
002459
2459

HZ
002471
002471
002471
002471
2471

HZ
002456
002457
002456
002456
2456

NR
005282
005282
005282
005282
5282

NR
003181
003181
003181
003181
003182
3181

CR
004001
004000
004001
004001
4001

CR
003418
003418
003418
003418
003418
3418

HR
007019
007018
007017
007016
007015
7017

HR
008854
008853
008852
008852
008851
8852

N BLANK = 6
C BLANK = 2202
H BLANK = 4621

N READ = 2227
C READ = 1541
H READ = 4546

N = 20.16%
C = 51.71%
H = 5.08%

N READ = 131
C READ = 959
H READ = 6396

N = 4.13%
C = 26.00%
H = 5.81%

REDUCED COPY OF
RAW DATA

5/8/06 CCO

W 2 4/1/06
ME-2 # 409

Pg # 131

Blanks

BLANK STD
KEYED 0.1209

V- 3

2- 5

H- 78

FACTORS

V- 6.76

2- 18.20

H- 53.91

CRM b1k

106

SHS

W 2 4/10/06
RUN # 3
QA INTERMEDIATE CRM
ASTM D5373

RUN # 5
QA INTERMEDIATE CRM
ASTM D5373

**** SAMPLE ****

**** SAMPLE ****

SAMPLE I.D.? Y-8438
SAMPLE WT? 1.839

SAMPLE I.D.? Y-8439
SAMPLE WT? 1.540

NZ
003041
003041
003041
003041
3041

NZ
003036
003036
003036
003037
3036

CZ
002459
002459
002459
002459
2459

CZ
002459
002459
002459
002459
2459

HZ
002430
002431
002430
002430
2430

HZ
002422
002423
002423
002423
2423

NR
003120
003120
003119
003120
003119
3120

NR
003118
003117
003118
003118
003118
3118

CR
003340
003339
003339
003339
003339
3339

CR
002563
002563
002563
002563
002563
2563

HR
008399
008398
008397
008397
008395
8397

HR
010697
010696
010696
010694
010693
10695

N READ = 79
C READ = 880
H READ = 5967
W X 4/11/06
N = 61% < 0.5%
C = 26.15% CR
H = 5.94%

N READ = 82
C READ = 104
H READ = 9272
W X 4/11/06
N = 75% < 0.5%
C = 3.53% CR
H = 9.87%

INSPECTED 4/10/06 Y-8438-39

REDUCED COPY OF
RAW DATA
5/8/06 CC

RUN # 13
S-1409

**** SAMPLE ****

SAMPLE I.D.? 2:40
SAMPLE WT? 1.617

NZ
003006
003007
003007
003007
3007

CZ
002459
002459
002459
002458
2459

HZ
002364
002364
002364
002364
2364

NR
005221
005221
005221
005222
005222
5221

CR
003992
003992
003992
003991
003992
3992

HR
006838
006838
006837
006836
006836
6837

N READ = 2215
C READ = 1533
H READ = 4473

N = 20.23%
C = 51.92%
H = 5.04%

RUN # 17
S-1409

**** SAMPLE ****

SAMPLE I.D.? 2:40
SAMPLE WT? 1.641

NZ
003006
003006
003006
003006
3006

CZ
002458
002458
002458
002458
2458

HZ
002371
002371
002372
002371
2371

NR
005241
005241
005241
005241
005240
5241

CR
004005
004005
004005
004005
004005
4005

HR
006947
006946
006946
006945
006945
6946

N READ = 2235
C READ = 1547
H READ = 4575

N = 20.12%
C = 51.63%
H = 5.08%

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RAW DATA
5/8/04 CO

Project Management Sheet

Lab ID #s Y-8435-37Project Manager WZ

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	<u>Intermediate</u>		Compendia Source:	Rev: Exp.
Test Material Type: <u>Waste</u>	Contract Review: <u>NA</u>		Assigned to Dept by: <u>WZ 4/6/06</u>		Received in Dept by: <u>Sr 4/7/06</u>	
		TM Initial and date				

Client Specs	Analyte	<u>CHN</u>						
	Material Specs							
	Required detection limits							
	Procedure Number	<u>ME 2</u>						
Technical Instructions	Special Instructions (including pre-analysis handling)	<u>one dup with 4/6/06 need dup on all dup</u>						
Training/Review	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
	<u>WZ</u> Project Manager	Analyst <u>WZ</u>	Analyst _____	Analyst _____	Analyst _____			
	<u>Sr 4/7/06</u> Group Lead	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
		Analyst _____	Analyst _____	Analyst _____	Analyst _____			
Maintenance Eq. Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	<u>139</u>	<u>WZ 4/10/06</u>						
	<u>410</u>	<u>WZ 4/10/06</u>						

EXACT COPY OF
RAW DATA
5/8/06
CP

Reporting Requirements / Compliance Statement / Reporting Format:

SHS
Sr 4/10/068435-37
4/21/06
INSPECTED

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

Galbraith Laboratories, Inc.

Carbon, Hydrogen and Nitrogen by the PerkinElmer Elemental Analyzer (#240)
Procedure #ME-2

Analyst: WZ Date: 4/10/06 Instrument #: 409 Balance #: 139 c/N 11201

Run	Lab ID	Weight (mg)	Notes	Run	Lab ID	Weight (mg)	Notes
1	BA Cond		0.9	16	Y-8437	1.651	TA BH QA Inter
2	S-0000		0.7, 3, 6.3	17	Y-8437	2.097	TA BH QA Inter
3	2:4 D	1.592	6.74, 18.15, 53.79	18	Y-8612	1.140 1.120 ③	TA BH
4	S-0000		0.3, 4, 6.4	19	S-1409	1.633	20.12, 51.75, 5.12 %
5	2:4 D	1.646	6.78, 18.23, 54.11				
6	S-0000		0.4, 6, 6.8				
7	2:4 D	1.748	6.78, 18.20, 54.29				
8	S-1409	1.778	20.16, 51.78, 5.09				
9	Y-8597	1.171					
10	Y-8612	1.878	TA BH				
11	Y-8612	1.996	TA BH				
12	Y-8435	1.249	QA TA QA Inter BH				
13	Y-8435	1.114	QA TA QA Inter BH				
14	Y-8436	1.364 0.2150	TA BH QA Inter				
15	Y-8436	1.620	TA BH QA Inter				

EXACT COPY OF
RAW DATA
5/10/06

Comments:

- ① lost some of sample WZ 4/10/06
 - ② wrote wrong initials for QA WZ 4/10/06
 - ③ door open on balance WZ 4/10/06
- Used For weekly blanks & factors WZ 4/10/06

Data Review and Approval

SHS

Signature: [Signature] 4/10/06
Date: 4/10/06

Calculations: Direct Readout

Blanks	Factors	CRM blk
N- 0.4	N- 6.78	10.6
C- 5	C- 18.22	
H- 6.1	H- 54.20	

FORM ME-2A Rev 10

Pos 4/21/06
INSPECTED Y-8435-37

ME-2 # 409

RUN # 1
BA CONDRUN # 2
S-0000

RUN # 3

Pg# 133

**** BLANK ****

**** BLANK ****

**** STANDARD ****

2.4-D STD
STD WT? 1.592N = 20.14
C = 51.79
H = 5.07

Blanks

V- 4
1- 5
3- 61

BLANK STD
KEYED 4/10/06

Factors

J- 6.78
2- 18.22
4- 54.20

ERM b1k
106

SHS
4/10/06

NZ
003239
003239
003240
003240
3240

CZ
002447
002448
002447
002447
2447

HZ
002450
002450
002450
002450
2450

NR
003248
003248
003248
003248
003248
3248

CR
004704
004704
004704
004704
004704
4704

HR
007286
007286
007285
007284
007283
7285

N BLANK = 9
C BLANK = 2257
H BLANK = 4835

NZ
003244
003243
003244
003244
3244

CZ
002448
002448
002448
002448
2448

HZ
002424
002424
002424
002424
2424

NR
003250
003250
003251
003250
003251
3250

CR
002451
002451
002451
002451
002452
2451

HR
002487
002487
002487
002487
002487
2487

N BLANK = 7
C BLANK = 3
H BLANK = 63

NZ
003247
003247
003247
003247
3247

CZ
002448
002447
002447
002448
2448

HZ
002417
002417
002417
002417
2417

NR
005414
005414
005414
005414
5414

CR
003947
003947
003947
003948
003948
3947

HR
006817
006816
006816
006815
006814
6816

N STD = 2167
C STD = 1500
H STD = 4399

N FAC = 6.74
C FAC = 18.15
H FAC = 53.72

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RAW DATA

5/8/06 CG

RUN # 4
S-0000

RUN # 5
**** STANDARD ****

RUN # 6
S-0000

RUN # 7
**** STANDARD ****

**** BLANK ****

2,4-D STD
STD WT? 1.646

**** BLANK ****

2,4-D STD
STD WT? 1.748

NZ
003246
003246
003246
003247
3246

N = 20.14
C = 51.79
H = 5.07

NZ
003245
003245
003245
003245
3245

N = 20.14
C = 51.79
H = 5.07

CZ
002448
002448
002447
002447
2448

NZ
003245
003245
003246
003245
3245

CZ
002448
002448
002448
002448
2448

NZ
003246
003245
003246
003245
3246

HZ
002394
002393
002394
002394
2394

CZ
002448
002448
002448
002448
2448

HZ
002367
002367
002367
002367
2367

CZ
002448
002448
002448
002448
2448

NR
003249
003249
003249
003249
003249
3249

HZ
002380
002380
002380
002380
2380

NR
003249
003248
003249
003249
003249
3249

HZ
002363
002363
002363
002363
2363

CR
002451
002451
002452
002451
002452
2451

NR
005496
005497
005497
005497
005497
5497

CR
002454
002453
002454
002454
002454
2454

NR
005636
005637
005637
005637
005637
5637

HR
002447
002448
002448
002448
002448
2448

CR
004006
004006
004005
004006
004006
4006

HR
002435
002435
002435
002436
002436
2435

CR
004101
004101
004101
004101
004101
4101

N BLANK = 3
C BLANK = 4
H BLANK = 54

HR
006951
006951
006950
006949
006948
6950

N BLANK = 4
C BLANK = 6
H BLANK = 68

HR
007244
007243
007243
007242
007241
7243

N STD = 2252
C STD = 1558
H STD = 4570

N STD = 2391
C STD = 1653
H STD = 4880

N FAC = 6.78
C FAC = 18.23
H FAC = 54.11

N FAC = 6.78
C FAC = 18.20
H FAC = 54.29

REDUCED COPY OF
RAW DATA

5/8/04 CC

RUN # 8
S-1409

**** SAMPLE ****

SAMPLE I.D.? 2:40
SAMPLE WT? 1.778

IZ
003241
003241
003241
003240
3241

CZ
002449
002449
002448
002449
2449

HZ
002343
002343
002343
002343
2343

NR
005675
005676
005675
005676
005676
5676

CR
004131
004132
004131
004131
004131
4131

HR
007309
007309
007307
007306
007305
7307

N READ = 2435
C READ = 1682
H READ = 4964

N = 20.16%
C = 51.78%
H = 5.09%

RUN # 12
QA Inter TA 04

**** SAMPLE ****

SAMPLE I.D.? Y-8435
SAMPLE WT? 1.249

NZ
003230
003230
003230
003230
3230

CZ
002449
002449
002449
002449
2449

HZ
002312
002312
002312
002311
2312

NR
003248
003248
003248
003249
003248
3248

CR
003849
003849
003849
003849
003848
3849

HR
005148
005147
005146
005147
005147
5147

N READ = 18
C READ = 1400
H READ = 2835

WZ 4/10/06
N = 17% < 0.5%
C = 61.29% CR
H = 4.10%

RUN # 13

TA 134
QA Inter

**** SAMPLE ****

SAMPLE I.D.? Y-8435
SAMPLE WT? 1.114

NZ
003224
003224
003224
003224
3224

CZ
002449
002449
002450
002449
2449

HZ
002307
002307
002308
002308
2306

NR
003243
003244
003243
003243
003243
3243

CR
003766
003766
003766
003766
003766
3766

HR
004625
004625
004624
004624
004624
4624

N READ = 19
C READ = 1317
H READ = 2318

N = 20% < 0.5%
C = 64.63% CR
H = 3.74%

RUN # 14

TA 134
QA Inter

**** SAMPLE ****

SAMPLE I.D.? Y-8436
SAMPLE WT? 1.364

NZ
003222
003222
003222
003222
3222

CZ
002448
002448
002448
002449
2448

HZ
002306
002306
002307
002306
2306

NR
003250
003250
003250
003250
003250
3250

CR
004133
004132
004133
004132
004133
4133

HR
004526
004526
004526
004526
004526
4526

N READ = 28
C READ = 1684
H READ = 2220

WZ 4/10/06
N = 26% < 0.5%
C = 67.57% CR
H = 2.92%

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5/8/06 CG

RUN # 15
TA BH
QA Inter

**** SAMPLE ****

SAMPLE I.D.? Y-8436
SAMPLE WT? 1.620

NZ
003221
003222
003222
003222
003222
3222

CZ
002448
002448
002449
002448
002448
2448

HZ
002305
002305
002305
002305
002305
2305

NR
003250
003250
003250
003250
003249
003250
3250

CR
004330
004330
004330
004330
004330
004330
4330

HR
005628
005628
005627
005626
005625
005625
5627

N READ = 28

C READ = 1882

H READ = 3322

$\omega \approx 4/10/06$

N = .22% < 0.5%

C = 63.58% CR

H = 3.71%

RUN # 16
QA INTERMEDIATE
TA BH

**** SAMPLE ****

SAMPLE I.D.? Y-8437
SAMPLE WT? 1.651

NZ
003222
003222
003222
003223
003223
003223
3223

CZ
002448
002448
002449
002448
002448
002449
2449

HZ
002302
002302
002302
002302
002302
002302
2302

NR
003274
003274
003274
003274
003274
003274
003274
3274

CR
004265
004265
004265
004265
004265
004265
004265
4265

HR
005850
005850
005850
005850
005848
005848
005848
5849

N READ = 52

C READ = 1817

H READ = 3547

$\omega \approx 4/10/06$

N = .42% < 0.5%

C = 60.22% CR

H = 3.90%

RUN # 17
QA INTERMEDIATE
TA BH

**** SAMPLE ****

SAMPLE I.D.? Y-8437
SAMPLE WT? 2.097

NZ
003222
003211
003222
003222
003223
003223
3220

CZ
002457
002449
002449
002448
002448
002448
2451

HZ
002302
002303
002303
002303
002303
002303
2303

NR
003257
003257
003257
003257
003257
003257
003257
3257

CR
004329
004328
004328
004329
004329
004328
004328
4329

HR
007505
007505
007505
007504
007504
007504
007503
7504

N READ = 38

C READ = 1878

H READ = 5201

$\omega \approx 4/10/06$

N = .24% < 0.5%

C = 49.02% CR

H = 4.52%

INSPECTED
Y-8435-37
Y-8436

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RAW DATA

5/8/06 CC

**** SAMPLE ****

**** SAMPLE ****

SAMPLE I.D. ? Y-8612
SAMPLE WT? 1.140

SAMPLE I.D. ? 2:40
SAMPLE WT? 1.633

NZ
003221
003222
003222
003222
3222

NZ
003223
003223
003224
003223
3223

CZ
002449
002449
002449
002449
2449

CZ
002449
002449
002449
002449
2449

HZ
002296
002297
002296
002297
2297

HZ
002296
002296
002296
002295
2296

NR
004157
004157
004157
004157
004158
4157

NR
005455
005455
005455
005455
005455
5455

CR
003166
003166
003166
003167
003166
3166

CR
003993
003993
003994
003994
003994
3994

HR
004043
004044
004043
004043
004043
4043

HR
006893
006892
006892
006890
006890
6891

N READ = 935
C READ = 717
H READ = 1747

N READ = 2232
C READ = 1545
H READ = 4596

N = 12.05%
C = 34.29%
H = 2.73%

N = 20.12%
C = 51.75%
H = 5.12%

REDUCED COPY OF
RAW DATA

5/8/00 CCO

Project Management Sheet

Lab ID #s Y-8435-37
Project Manager WML

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	<u>Intermediates</u>		Compendia Source:	Rev: Exp.
Test Material Type: <u>Waste</u>	Contract Review: <u>NA</u> <u>4/11/06</u>		Assigned to Dept by: <u>WML 4/11/06</u>		Received in Dept by: <u>SKS 4/11/06</u>	

Client Specs	Analyte	<u>0</u>						
	Material Specs							
	Required detection limits							
	Procedure Number	<u>ES-3</u> <u>WML 4/11/06</u> <u>EL-2</u> <u>wrong method #</u>						
Technical Instructions	Special Instructions (including pre-analysis handling)	<u>dup</u>						
	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
Training Review	<u>WML</u> Project Manager	Analyst <u>JB 4/11/06</u>	Analyst _____	Analyst _____	Analyst _____			
	<u>SKS 4/11/06</u> Group Lead	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
		Analyst _____	Analyst _____	Analyst _____	Analyst _____			
Maintenance Log Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	<u>Bot #123</u>	<u>not</u> <u>JB 4/11/06</u>						
	<u>Shot #45</u>	<u>not</u> <u>JB 4/11/06</u>						
	<u>415Q</u>	<u>JB 4/11/06</u>						

EXACT COPY OF
RAW DATA
SKS 4/11/06
CG

Reporting Requirements / Compliance Statement / Reporting Format:

① wrote instrument # incorrectly (left out 1) JB 4/11/06NS 4/21/06
Y-8435-37
INSPECTED

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

- 4.5 Compare the two blank values. The two blank readings should be within 5.0 (absolute) of each other. An approximate range is 10.0 to 40.0.

Compare the two calibration standard values. The two calibration standard readings should be within 0.5% (absolute) of each other. An appropriate range is 13.00% to 16.50%.

If the values are not close to each other as described above, then continue to run blanks and standards until 2 sets of blanks and factors are close to each other.

- 4.6 Average the two blank values and then average the two standard values to obtain a factor. Save these values for later calculations.

5.0 Quality Control

Before running any samples and after every tenth sample in a series, run a quality control (QC) standard to verify calibration. Run a QC standard after each black liquor sample. Check the QC value against the latest posted control chart for the instrument.

- 5.1 Run a QC like a sample.
- 5.2 If the QC value falls within the 2 sigma limits, then Run Samples (section 6.0).
- 5.3 If the QC value falls outside the 3 sigma limits, STOP and see your supervisor.
- 5.4 If the QC value does not fall outside the 3 sigma limits, but it falls outside the 2 sigma limits, run a second QC standard.
- 5.5 If the second QC value falls within the 2 to 3 sigma division, and within 1 sigma of the previous QC, then refactor using the equation below and multiply all of your previous results by the Factor Value (below). Recalibrate the instrument before you continue. Check the calibration with a QC and notify your supervisor. If the second QC value does not fall as described above, then see your supervisor.

$$\text{final average} = (1\text{st QC} + \text{average of last 2 QCs}) \div 2$$

$$\text{mV / mg Factor Value} = \text{theory} \div \text{final average}$$

- 5.6 If the second QC value does not fall within 1 sigma of the previous QC, or falls outside 3 sigma, STOP and see your supervisor.

EXACT COPY OF
RAW DATA
5/8/04
CC

Oxygen by the PerkinElmer Elemental Analyzer (#240)
Procedure #E8-3

Analyst:

M:DT/388

Date: 4/11/06

Instrument #: 415

C/N: 11777

Balance: 123

Sens: 2.002

49.993

R	#	Weight (mg)	Notes	R	#	Weight (mg)	Notes	R	#	Weight (mg)	Notes
1	bk	Cond		14	✓8435	2.586 dupl.	QA inter. ?	EXACT COPY OF RAW DATA 5/8/06			
2	B.A	Cond		15	✓8436	1.769	QA inter. ?				
3	bk	S-0000	39.2	16	✓8436	2.097 dupl.	QA inter. ?				
4	std	1.759	15.66	17	✓8437	1.718	QA inter. ?				
5	bk	S-0000	48.0	18	✓8437	1.874 dupl.	QA inter. ?				
6	std	1.972	15.44	19	QC Std	1.848 0.0802	14.25% ?				
7	bk	S-0000	47.7	20	QC Std	1.638 0.0802	12.65% ?				
8	std	1.591	15.64	21	QC Std	1.844 0.0802	12.27% ?				
9	QC Std	1.692 0.0802	11.93%								
10	✓8601	2.387	?								
11	✓8092	1.989	?								
12	✓7656	2.208	?								
13	✓8435	2.508	QA inter. ?								
Previous + Day = Total				Comments:				Factor & Blank Used			
Runs 69 + 21 = 90				13, 14, 15, 16, 17, 18 - Dups are terrible - Samples look like wet coal. QC Right behind them failed terribly. Ran 2nd QC per SAS - Coming down. Ran 3rd QC.				Blank: 47.9			
Shifts 3 + (1) = 4								Factor 15.54			
								Data Review			
								SHS			
								5/5/12/06			

4/21/04
INSPECTED
y-8435-37

All results Questionable
End QC failed due to
Sample interferences
(✓8435-37) TB 4/12/06

#5,7 used for Blanks
#6,8 used for Factor

FORM E8-3A Rev 4

Per Oxygen

#415

pg 59

68-
BLANK SPD
KEYED 4/11/06

MDT/TB

4-11-06

SHS

Blank: 47.9

Factor: 15.54

Runs #5, 7 used
to calc daily Blk

Runs #6, 8 used
to calc daily
factor.

Runs 13, 14,
15, 16,
17, 18

Wms prg (QA inter)
duplicate samples.
(dups are trouble
wms said don't
recheck) samples
look like wet coal.
QC following these
failed - Zond QC
lower. Ran 3rd per
SHS. Shows good.

Think it is interference
Carryover from
samples. Stopped
here. TB 4/11/06

#1 bk Cond

#2 B.A. Cond

#3 bk S-0000

39.2

#4 Acet Cal Sol.

Wt. 1.759mg

15.66

REDUCED COPY OF
RAW DATA

5/8/06 cce

0000000
0005063
0004398
0004399
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0004397
0018991
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0012124
0003772
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0003219
0003219
0003219
0003218
0003218
0003219
001859
001858
001859
001859
001859
001859
001859
0000000
0000000
114589

#5 blk s-0000
(48)

0000000
0108880
0108880
0108880
0108879
0108879
0108879
0108879
0108879
0108879
0108879
007305
007304
007304
007304
007304
007303
007303
002124
002125
002125
002125
002125
002125
002125
002125
002125
002125
0000001
0003769
0003769
0003769
0003769
0003769
0017758
0003220
0003220
0003219
0003220
1000000
001858
001859
001859
001859
001859
0000000
0000000
0000000

#6 Acet Cal Std
Wt. 1.972 mg
(15.44)

0000039
0000039
0004370
0004370
0004369
0004369
0004368
0004368
0004368
040019
0003698
0003698
0003697
0003697
0003697
0003696
0003697
0003696
002114
002115
002115
002115
002115
002115
002115
002115
002115
0000000
0000001
0001034
0003777
0003777
0003776
0003776
0003777
0003220
0003220
0003221
0003220
0003220
0003221
0003220
0003220
001862
001863
001863
001864
001864
001864
0000000
0000000

#7 blk s-0000
47.7

017223
017223
009429
009428
009429
009429
009428
009428
009428
009427
0002311
0006644
0006644
0006644
0006643
0006644
0006644
0006643
0006643
053735
002159
002159
002160
002160
002160
002160
002160
002160
0000000
0000001
0003773
0003773
0003774
0003773
0003773
0003773
045279
003221
003220
003220
003221
003220
003220
003220
003220
003220
001863
001863
001863
001864
001864
001864
0000000
0000000

#8 Acet Cal Std.
Wt. 1.591 mg
(15.64)

0000000
0008507
010014
010013
010012
010012
010012
010011
010011
083529
006839
006839
006839
006839
006838
006838
006838
006837
006838
002165
002165
002165
002166
002165
002166
002166
002165
0000000
0000000
0003789
0003789
0003789
0003789
0003789
0003224
0003224
0003224
0003223
0003223
0003223
001876
001877
001877
001877
001878
001878
0000000
0000000

#9 Acet Cal Std
Wt. 1.692 mg
(11.93%)
100.732R
0.0802

[illegible]

#12
Y 7656
Wgt: 2.208 mg
calc ~~0.998%~~
error TBQ 4/11/06 2.58%
Recheck ?
failing QC due to
sample interference

#14 $\sqrt{8435}$
 dept: $\sqrt{7}$
 wgt: 2.586mg
 $\sqrt{7}$ 26.91%
 QA inter. $\frac{\text{failing } \Phi_c}{\text{due to sample interference}}$

#15
Y8436
Wgt: 1.769mg
7. 16.34% ✓
failing PC due
to sample
interferences
QA inter

#16
Y8486
dupl.
wgt: 2.097mg
27.16 ✓
Q+ inter taking PC due to same male interference

#17
✓ 8437
Wgt: 1.718mg
✓ 22.34 T
failing OC
due to
QA inter. Sample interference

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RAW DATA

5/8/06 CC

Project Management Sheet

Lab ID #s Y-8438439Project Manager WML

Applicable Regulations:	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Template ID #: Not applicable	Rev: Not applicable
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Quote #:	Exp.
	☐ GLP	☐ Drinking Water	<u>Intermediate</u>		Compendia Source:	Rev: Exp.
Test Material Type: <u>waste</u>	Contract Review: <u>NA</u>		Assigned to Dept by: <u>WML 4/6/06</u>		Received in Dept by: <u>5/8/06</u>	
		WML TM Initial and date				

Client Specs	Analyte	<u>①</u>						
	Material Specs							
	Required detection limits							
	Procedure Number	<u>E8-3</u>						
Technical Instructions	Special Instructions (including pre-analysis handling)	<u>one dup</u>						
	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
Training Review	<u>WML</u> Project Manager	Analyst <u>JB 4/18/06</u>	Analyst _____	Analyst _____	Analyst _____			
	<u>5/4/06</u> Group Lead	Analyst _____	Analyst _____	Analyst _____	Analyst _____			
	Analyst _____	Analyst _____	Analyst _____	Analyst _____				
Maintenance Log Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	<u>Ball #123</u>	<u>JB 4/18/06</u>						
	<u>Inst # 415</u>	<u>JB 4/18/06</u>						

EXACT COPY OF
RAW DATA
5/8/06
100

Reporting Requirements / Compliance Statement / Reporting Format:

100 4/21/06
Y-8438-39
INSPECTED

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

000064

Oxygen by the PerkinElmer Elemental Analyzer (#240)
Procedure #E8-3

Analyst: JBJ

Date: 4/18/06

Instrument #: 415

C/N: 11777

Balance: 123

Sens: 2.003
49.990

R	#	Weight (mg)	Notes	R	#	Weight (mg)	Notes	R	#	Weight (mg)	Notes
1	blk	condt		14	bk 50000	42.6		25	OutQCStd. 1.710	11.99%	0-0802
2	BA	condt.		15	ActQC	1.649	0-0802				
3	bk	50000	43.9	16	Y7662	1.619	12.04%				
4	OutQCStd.	1.761	15.51	17	Y7663	1.571					
5	bk	50000	46.6	18	Y8438	1.528	Wg CRM (Inter)				
6	OutQCStd.	1.6587	15.91	19	Y8439	1.094	Wg CRM (Inter)				
7	ActQCStd.	1.871	10.92%	20	Y7664	2.160					
8	OutQCStd.	1.635	10.91%	21	Y8439	1.611	Wg CRM (Inter)				
9	Y7662	1.678	Invalid	22	Y7666	2.565					
10	Y8442	1.525	Invalid	23	Y8439	1.282	Wg CRM (Inter)				
11	bk	50000	45.0								
12	Y7662		Invalid								
13	OutQCStd.	1.742	14.66								
14	Y7664		Invalid								
15	bk 50000		38.6								
16	Y8445		Invalid								
17	OutQCStd.	1.684	14.58								
18											
Previous + Day = Total				Comments:				Factor & Blank Used			
Runs 36 + =				① balance drift. waited til settled TBg 4/18/06				Blank: 45.3			
Shifts 2 + (1) = 3				② balance drift (Someone opened door while weighing. Had to wait for it to settle TBg 4/18/06)				Factor: 15.71			
				③ Total QC outside 2 sigma units put inside 3. Ran cond QC - Constant but low changed sequential order on sheet - Had to redo TBg 4/18/06				Recalibrated Blk: 40.6			
				④ Inat problems Discarded & Did not Run TBg 4/18/06				Recalibrated Factor: 14.62			
				⑤ accidentally weighed in reverse order TBg 4/18/06				Data Review			
				⑥ accidental workover TBg 4/18/06				SHS			
				⑦ Had to redo Y 8439 @ less sample Readings Rolled over - Changed Sequence				FORM E8-3A Rev 4			

INSPECTED
4/21/06
Y8438-39

Factor & Blank Used

Blank: 45.3

Factor: 15.71

Recalibrated

Blk: 40.6

Recalibrated

Factor: 14.62

Data Review

SHS

FORM E8-3A Rev 4

Used Runs 35 5 for daily avg. Blank

Used Runs 45 6 for daily factor avg.

2nd Calibration:

Used Runs 11, 2, 13 for daily avg Blank

Used Runs 10, 12 for daily avg factor

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RAW DATA

~~5/18/04 CC~~
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RAW DATA

#4
act cal std
wt: 1.761 mg
15.51

43.9
5

#2 BA cond.

#1 bk cond.

Polystyrene
Factor Value of
0.974 X % found
on Run 15-25
✓ Calman
11/25/66

① Used Runs 11913
for daily blank
calibration

SHS

Factor: 14.62
⑧

Blank: 40.6 (A)

7/18/06
TB

BLANK STD
KEYED 4/19/09
mz

0331

4422001
140200
040200
040200
040200
040200
6E0200
040200
L46200
L46200
L46200
L46200
L46200
EL4010
566E00
566E00
566E00
566E00
566E00
566E00
100000
200000
581200
581200
581200
581200
481200
481200
481200
481200
481200
481200
619900
619900
619900
029900
619900
619900
029900
029900
029900
L69010
L69010
869010
L69010
869010
669010
669010
041500
041500
000000

[illegible]

5	8	6	1	0	0
9	8	6	1	0	0
5	8	6	1	0	0
5	8	6	1	0	0
5	8	6	1	0	0
5	8	6	1	0	0
E	H	6	2	0	0
H	H	6	2	0	0
H	H	6	2	0	0
H	H	6	2	0	0
S	H	6	2	0	0
H	H	6	2	0	0
2	9	H	1	5	0
9	L	6	E	0	0
9	L	6	E	0	0
9	L	6	E	0	0
7	6	6	E	0	0
L	6	6	E	0	0
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6	2	1	2	0	0
8	2	1	2	0	0
8	2	1	2	0	0
8	2	1	2	0	0
L	2	1	2	0	0
9	2	1	2	0	0
9	2	1	2	0	0
9	2	1	2	0	0
0	0	0	0	0	1
0	H	9	2	0	0
2	H	9	2	0	0
E	H	9	2	0	0
S	H	9	2	0	0
S	H	9	2	0	0
9	H	9	2	0	0
L	H	9	2	0	0
L	H	9	2	0	0
E	1	5	9	H	0
9	L	1	9	1	0
9	L	1	9	1	0
L	L	1	9	1	0
8	L	1	9	1	0
8	L	1	9	1	0
6	L	1	9	1	0
1	8	1	9	1	0
S	6	E	L	0	0
0	0	0	0	0	0

1	0	0	0	0	0
2	5	6	1	0	0
2	5	6	1	0	0
1	5	6	1	0	0
1	5	6	1	0	0
0	5	6	1	0	0
0	5	6	1	0	0
1	2	6	2	0	0
1	2	6	2	0	0
1	2	6	2	0	0
1	2	6	2	0	0
2	2	6	2	0	0
5	5	6	6	0	0
5	5	6	6	0	0
5	5	6	6	0	0
5	5	6	6	0	0
5	5	6	6	0	0
5	5	6	6	0	0
L	L	h	5	1	0
1	0	0	0	0	0
E	6	1	8	1	0
5	9	0	2	0	0
5	9	0	2	0	0
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h	9	0	2	0	0
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h	9	0	2	0	0
1	1	h	E	0	0
1	1	h	E	0	0
2	1	h	E	0	0
2	1	h	E	0	0
E	1	h	E	0	0
E	1	h	E	0	0
E	1	h	E	0	0
E	1	h	E	0	0
E	1	h	E	0	0
8	9	h	5	h	0
0	1	2	h	0	0
0	1	2	h	0	0
0	1	2	h	0	0
0	1	2	h	0	0
0	1	2	h	0	0
0	1	2	h	0	0
0	1	2	h	0	0
0	0	0	h	0	0

0000001
004798
004797
004797
004797
004796
004796
004796
004795
003413
003413
003412
003412
003412
003413
003412
003412
003412
002234
002235
002236
002235
002235
002235
002236
002235
002235
002235
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0040000
0040001
0040000
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0040001
0040001
004568
002946
002946
002946
002946
002945
109392
002041
002041
002041
002041
002041
002040

#5 bk 50000

46.6

0000000
010175
010175
010174
010174
010173
010173
010172
010172
006401
006401
006401
006401
006401
006400
006401
006399
006400
002303
002304
002304
002305
002305
002305
002305
002305
002305
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0000000
003997
003996
003997
003996
003996
014231
002945
002945
002945
002945
002944
002040
002041
002041
002041
002041
019866

#6

Act Cal Std.

Wgt: 1.587mg

142887
011115
011114
011114
011114
011114
011114
011113
011112
006627
006627
006627
006627
006627
006626
006626
006627
006626
002275
002275
002276
002275
002275
002276
002276
002276
002276
0000000
006548
004011
004011
004011
004011
002947
002947
002947
002947
002946
002946
002945
002053
002053
002053
002053
002053
0000000

#7 Act Qc Std.

Wgt: 1.871mg

10.98%

0.0802

0000001
010125
010125
010125
010124
010124
010124
010123
010123
010123
006202
006203
006203
006203
006203
006203
006202
006202
006202
006201
006201
002327
002328
002328
002328
002328
002328
002329
002328
002328
0000000
0000000
0000001
004017
004017
004017
004017
004017
002947
002946
002946
002946
002945
002946
002064
002065
002065
002065
002065
002066
0000002
0000001

#8 Act Qc Std.

Wgt: 1.635mg

10.91%

0.0802

0000000
004783
004783
004783
004783
004783
004782
004782
004782
003393
003394
003394
003394
003393
003393
003393
003392
003392
002242
002243
002243
002244
002244
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0000000
0000000
0000000
004011
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002944
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002944
002061
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002062
002063
002062
002063
0000000

#9 bk 50000

45.0

REDUCED COPY OF
RAW DATA
5/8/06 CE

0000000
 0000000
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 000930
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 002943
 002943
 002942
 002942
 002942
 002050
 002050
 002050
 002051
 002050
 002050
 000002

#17 Y 8439

Wt: 1.528mg

(0.40%)

70.06%

x0.97%

CRM

68.24%

Refactored

INTER

000001
 008991
 008991
 008991
 008989
 008990
 008989
 008989
 008989
 000957
 007689
 007689
 007688
 007688
 007688
 007687
 007687
 007686
 007687
 002302
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 002302
 002303
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 002303
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 004005
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 004005
 002945
 002944
 002944
 002944
 002943
 002943
 002050
 002050
 002050
 002050
 002050
 002050
 000001

#18 INSPECTED 39

(0.40%) Y 8438

Wt: 1.094mg

27.12%

x0.97%

26.39%

Refactored

CRM INTER

 REDUCED COPY OF
 RAW DATA
 5/8/06 (6)

0000001
013288
013288
013287
013288
013287
013287
013286
013285
0000744
0000744
0000742
0000742
~~0000741~~
0000740
0000740
0000739
0000738
0002367
0002367
0002363
0002368
0002369
0002368
0002363
0002368
0000001
0000001
004013
004012
004012
004012
002941
002940
~~002940~~
002939
002940
002940
002049
002049
002049
002050
002050
002050
011760

Reading rolled
over too large
Sample mass?
Recheck @ less

#21 Y8439 dup.

Wt: 1.611mg

cm

Inter

0000000
Act 4/21/06 Y8438-39
INSPECTED
#23
(70.00%) Y8439 dupl.
Wt: 1.202mg
70
70.69%
Rounding error X0.974
TBJ 4/19/06
cem 79
68.86%
✓ refactored
Inter

0000000
0000001
011385
011332
011332
011332
011332
011331
011331
011331
011331
011331
011331
015769
015768
015767
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015764
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0002208
0002209
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0002209
0002209
0002209
0000001
0000001
0000001
0040001
0040000
0040000
0040000
0040001
004460
002937
002937
002937
~~002937~~
002937
002937
002044
002045
002045
002045
002045
002045
002045
006032

Act Qc std.
Wt: 1.633

12.57%

105.90%

0-0802

0000000
0000001
0006344
010791
010791
010791
010790
010790
010790
010789
010789
006341
006342
006341
006342
~~006342~~
006341
006340
006341
006341
006341
0002209
0002209
0002210
0002210
0002211
0002210
0002211
0002211
0002212
0002211
0000000
0000000
0003997
0003997
0003997
0003998
0003997
0003997
001013
002936
002935
~~002936~~
002935
002935
002042
002042
002042
002042
002042
002043
002043
002042

#25

Act Qc std
Wt: 1.710mg

11.99%

101.24%

0-0802

0000001
0000001
010689
010688
010687
010687
010687
010686
010686
010686
009619
006341
006341
006341
006339
~~006339~~
006339
006340
006339
006339
0002249
0002249
0002250
0002250
0002251
0002250
0002251
0002251
0002251
0002250
0000000
019183
004009
004009
004009
004009
004009
002936
002936
002935
~~002936~~
002936
002936
002046
002046
002046
002047
002047
002046
0000000

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RAW DATA
5/8/04 CC

Project Management Sheet

Lab ID #s

Y- 8435-37

Project Manager

WML

Applicable Regulations:	EPA	FDA	Other	Template ID #: Not applicable	Rev: Not applicable
	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Quote #:
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Compendia
	☐ GLP	☐ Drinking Water	Intermediate	Source:	Exp.
Test Material Type:	Contract Review: NA		Assigned to Dept by:		Received in Dept by:
Waste	WML TM Initial and date 4/4/06		WML 4/4/06		SHS 4/7/06

Client Specs	Analyte	Sulfur	Sulfur rods					
	Material Specs							
	Required detection limits							
	Procedure Number	E16-26	E16-2A					
Technical Instructions	Special Instructions (including pre-analysis handling)	dup	dup					
	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.							
Training Review	WML Project Manager	Analyst NEO	Analyst NEO	Analyst	Analyst			
	SHS 4/7/06 Group Lead	Analyst	Analyst	Analyst	Analyst			
		Analyst	Analyst	Analyst	Analyst			
Maintenance Log Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	194	NEO 4/14/06	194	NEO 4/14/06				
	352	NEO 4/14/06	352	NEO 4/14/06				

EXACT COPY OF RAW DATA
5/8/06
CC

Reporting Requirements / Compliance Statement / Reporting Format:

SHS
SHS 4/7/06

INSPECTED

WML 4/21/06
Y-8435-37

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

Project Management Sheet

Lab ID #s

Y-8438+39

Project Manager

cm

Applicable Regulations:	EPA		FDA	Other	Template ID #: Not applicable	Rev: Not applicable
	☐ CERCLA	☐ RCRA	☐ GLP	☐ NRC	Quote #:	Exp.
	☐ FIFRA	☐ TSCA	☐ GMP	☐ Other	Compendia	Rev: Exp.
	☐ GLP	☐ Drinking Water	Intermediate		Source:	
Test Material Type:	waste		Contract Review: NA		Assigned to Dept by:	Received in Dept by:
	wm TM initial and date		4/4/06		wm 4/4/06	3/34/7/06

Client Specs	Analyte	Sulfur	Sulfur repeat			
	Material Specs					
	Required detection limits					
	Procedure Number	E16-26	E16-2A			
Technical Instructions	Special Instructions (including pre-analysis handling)	one dup	one dup			
Training Review	I have read and understand the current revision of the assigned procedure(s) and the requirements that are incorporated within them.					
	wm Project Manager	Analyst NED	Analyst NED	Analyst	Analyst	
	3/34/7/06 Group Lead	Analyst	Analyst	Analyst	Analyst	
		Analyst	Analyst	Analyst	Analyst	
Maintenance Log Review	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date	Equip. Inst. #	Analyst Initial/Date
	194	NED 4/14/06	194	NED 4/14/06		
	352	NED 4/14/06	352	NED 4/14/06		

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Reporting Requirements / Compliance Statement / Reporting Format:

SHS

3/34/7/06

INSPECTED

NED 4/21/06
4-8438-39

Total Pages	
Specials	
Metals	
Organics	
Halogens	
CHN	

FORM 3.1.6A Re

4/14/06 A

NEO

E16-2B

CIN 12167/11202/11569

Inst# 352

① Packed #1
 Data not need -
 ID by Data.
 NEO
 4/24/06

SHS
 4/14/06

BLANK STD
 KEYED 53.04
 m

08:05 Apr-14-06		E16-2B Method	
Author: superuser Created: 08:42 Sep-22-04 Revised: 15:33 Dec-07-05			
LOW S BY SC-432DR General			
For initial screening of most sample types. Calibration by HIST SRM 143c Cystine. Not suitable for coke, steel, plant tissue. Repeat by E16-2B1 if (S range (peak area)). Repeat by E16-2A if (S range (peak area) by calibration or if S content of material (1 %).			
Furnace Temp.:	1375 °C		
Lance Delay:	20 Seconds		
Analysis Time:	100 to 180 Seconds		
Comparator Level:	0.0 %		
Blank at 1g:	0.0000 %		
Absolute Units:	No		
Units:	%		
Factor:	1.000		
Result Format:	S		
Detection Range:	Low		
Low Calibration:	Quadratic Regressed		
	$0.04888 * \text{Area}^2 + 1.200 * \text{Area} - 0.00512$		
	Range 0.0 to 2.8 mg		
	Last Calibrated 13:36 Apr-13-06		

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08:06 Apr-14-06		Ambient Monitor		
Parameter	Value	Minimum	Maximum	Check
0.000000	0.0000	0.0000	0.0000	

Combustion Temp (°C)	1374	1374	1374	
IR Oven Temp (°C)	48.1	48.2	48.2	
Flow Pressure (psi)	17.1	17.1	17.1	
Back Pressure (mm Hg)	785.2	784.9	785.3	
Low Sulfur IR Cell (Volts)	8.3171	8.3168	8.3176	
High Sulfur IR Cell (Volts)	8.5910	8.5898	8.6046	

08:06 Apr-14-06 Sample Weights					
#	ID Code	Weight	ID Code 2	ID Code 3	Method
1	cond	3.88	cystine	Standard	E16-2B
2	cond	8.11	cystine	Standard	E16-2B
3	cond	12.02	cystine	Standard	E16-2B
4	CALIB-B	17.90			E16-2B
5	CALIB-B	15.05			E16-2B
6	CALIB-B	11.89			E16-2B
7	CALIB-B	9.09			E16-2B
8	CALIB-B	5.94			E16-2B
9	CALIB-B	2.84			E16-2B
10	CALIB-C	50.04	MILK POWDER		E16-2B
11	s-0000	350.00	BLANK	Standard	E16-2B
12	s-0000	350.00	BLANK	Standard	E16-2B
13	s-0000	350.00	BLANK	Standard	E16-2B

#738 cond Weight = 3.88 mg Method: E16-2B 08:12 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 24.68 %

P: 0.1213 A(L): 0.778 T: 100

#739 cond Weight = 8.11 mg Method: E16-2B 08:14 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 25.44 %

P: 0.2565 A(L): 1.617 T: 100

#740 cond Weight = 12.02 mg Method: E16-2B 08:16 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 25.55 %

P: 0.3352 A(L): 2.340 T: 100

#741 CALIB-B Weight = 17.90 mg Method: E16-2B 08:18 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

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#741 CALIB-B Weight = 17.90 mg Method: E16-2B 08:18 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.51 %

P: 0.3932 A(L): 2.384 T: 100



#742 CALIB-B Weight = 15.05 mg Method: E16-2B 08:20 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 18.28 %

P: 0.2907 A(L): 2.114 T: 100



#743 CALIB-B Weight = 11.89 mg Method: E16-2B 08:22 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.95 %

P: 0.2877 A(L): 1.669 T: 100



#744 CALIB-B Weight = 9.09 mg Method: E16-2B 08:24 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.98 %

P: 0.2376 A(L): 1.298 T: 100



#745 CALIB-B Weight = 5.94 mg Method: E16-2B 08:26 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.93 %

P: 0.1659 A(L): 0.861 T: 100



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#746 CALIB-B Weight = 2.84 mg Method: E16-2B 08:28 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.73 %

P: 0.0718 A(L): 0.417 T: 100

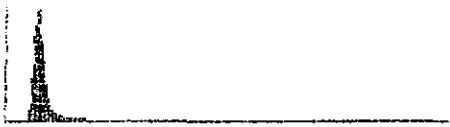




#746 CALIB-B Weight = 2.84 mg Method: E16-2B 08:28 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 17.73 %

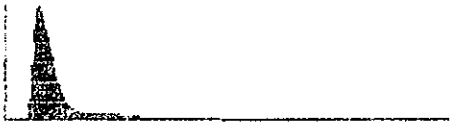
P: 0.0718 A(L): 0.417 T: 100



#747 CALIB-C Weight = 50.04 mg Method: E16-2B 08:29 Apr-14-06
Operator: NEO ID Code 2 : MILK POWDER ID Code 3 :

S = 0.3587 %

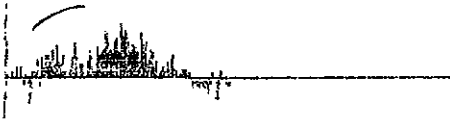
P: 0.0133 A(L): 0.153 T: 120



#748 s-0000 Weight = 350.00 mg Method: E16-2B 08:31 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = -0.00066 %

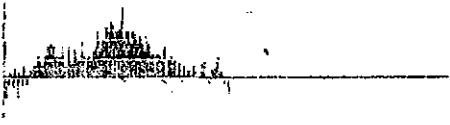
P: 0.0001 A(L): 0.002 T: 100



#749 s-0000 Weight = 350.00 mg Method: E16-2B 08:33 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = -0.00035 %

P: 0.0001 A(L): 0.003 T: 100



#750 s-0000 Weight = 350.00 mg Method: E16-2B 08:35 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = -0.00045 %

P: 0.0001 A(L): 0.003 T: 100



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08:38 Apr-14-06 Low Sulfur Calibration

#	ID Code	Weight	Sulfur	Standard	% Error	Time & Date
741	CALIB-B	17.90	18.33	18.60	-1.4660	08:18 Apr-14-06
742	CALIB-B	15.05	19.06	18.60	+2.4539	08:20 Apr-14-06
743	CALIB-B	11.89	18.59	18.60	-0.0782	08:22 Apr-14-06
744	CALIB-B	9.09	18.52	18.60	-0.4072	08:24 Apr-14-06
745	CALIB-B	5.94	18.36	18.60	-1.3163	08:26 Apr-14-06
746	CALIB-B	2.84	18.10	18.60	-2.6928	08:28 Apr-14-06
747	CALIB-C	50.04	0.3700	0.3510	+5.4208	08:29 Apr-14-06
748	s-0000	350.00	0.00059	0.0000	- - -	08:31 Apr-14-06
749	s-0000	350.00	0.00090	0.0000	- - -	08:33 Apr-14-06
750	s-0000	350.00	0.00000	0.0000	- - -	08:35 Apr-14-06

Old Low Sulfur Calibration

$$\text{Sulfur} = 0.04888 * \text{Area}^2 + 1.200 * \text{Area} - 0.00512$$

Range : 0.0000 to 2.8046 mg

Fit = 0.00125

Calibration time : 13:36 Apr-13-06

New Low Sulfur Calibration

$$\text{Sulfur} = 0.07164 * \text{Area}^2 + 1.205 * \text{Area} - 0.00077$$

Range : 0.0000 to 2.6227 mg

Fit = 0.00665

Calibration time : 08:38 Apr-14-06

08:39 Apr-14-06 Recalculate Results

#	ID Code	Weight	Peak	Area	Sulfur	Time
741	CALIB-B	17.90	0.3832	2.304L	18.33 %	100
742	CALIB-B	15.05	0.2907	2.114L	19.06 %	100
743	CALIB-B	11.89	0.2877	1.669L	18.59 %	100
744	CALIB-B	9.09	0.2376	1.298L	18.52 %	100
745	CALIB-B	5.94	0.1658	0.861L	18.36 %	100
746	CALIB-B	2.84	0.0718	0.417L	18.10 %	100
747	CALIB-C	50.04	0.0133	0.153L	0.3700 %	100

08:39 Apr-14-06 Sample Weights

#	ID Code	Weight	ID Code 2	ID Code 3	Method
1	cond	3.90	cystine	Standard	E16-2B
2	cond	3.29	cystine	Standard	E16-2B
3	s-1623	5.89	cystine	standard	E16-2B
4	s-1623	9.97	cystine	standard	E16-2B

#751 cond Weight = 3.90 mg Method: E16-2B 08:41 Apr-14-06
 Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 25.82 %

P: 0.1330 A(L): 0.798 T: 100

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1	cond	3.90	cystine	Standard	E16-2B
2	cond	3.29	cystine	Standard	E16-2B
3	s-1623	5.89	cystine	standard	E16-2B
4	s-1623	9.97	cystine	standard	E16-2B

#751 cond Weight = 3.90 mg Method: E16-2B 08:41 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 25.82 %

P: 0.1330 A(L): 0.798 T: 100



#752 cond Weight = 3.29 mg Method: E16-2B 08:43 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 26.15 %

P: 0.0947 A(L): 0.686 T: 100



#753 s-1623 Weight = 5.89 mg Method: E16-2B 08:45 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : standard

S = 26.38 %

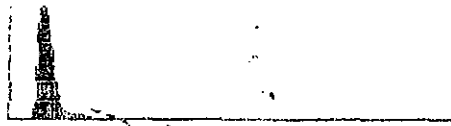
P: 0.1936 A(L): 1.203 T: 100



#754 s-1623 Weight = 9.97 mg Method: E16-2B 08:47 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : standard

S = 27.03 %

P: 0.2902 A(L): 1.999 T: 100



#755 Y-8513 Weight = 26.01 mg Method: E16-2B 08:51 Apr-14-06
Operator: NEO ID Code 2 : ASTM D4239 ID Code 3 : GMP

S = 3.725 %

P: 0.1027 A(L): 0.769 T: 100



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#756 Y-8514 Weight = 30.43 mg Method: E16-2B 08:53 Apr-14-06
Operator: NEO ID Code 2 : GMP ID Code 3 : ASTM D4239



✓ #756 Y-8514 Weight = 30.43 mg Method: E16-2B 08:53 Apr-14-06
Operator: NEO ID Code 2 : GMP ID Code 3 : ASTM D4239

S = 3.926 %

P: 0.1128 A(L): 0.939 T: 100



✓ #757 Y-8514 DUP Weight = 27.59 mg Method: E16-2B 08:58 Apr-14-06
Operator: NEO ID Code 2 : ASTM D4239 ID Code 3 : GMP

S = 3.899 %

P: 0.1095 A(L): 0.850 T: 100



#758 Y-8435 Weight = 38.61 mg Method: E16-2B 09:00 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 0.06751 % 4.5%

P: 0.0014 A(L): 0.022 T: 100

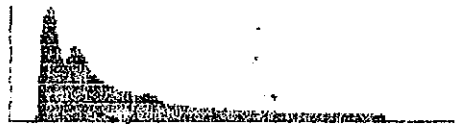


RECHECK
on Trace

#759 Y-8438 Weight = 40.62 mg Method: E16-2B 09:08 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 :

S = 0.2580 % 4.5%

P: 0.0025 A(L): 0.087 T: 165

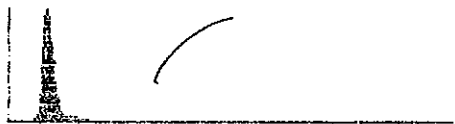


RECHECK
on Trace

#760 s-1623 Weight = 3.82 mg Method: E16-2B 09:11 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : standard

S = 25.94 %

P: 0.1327 A(L): 0.786 T: 100



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#761 s-1623 Weight = 8.05 mg Method: E16-2B 09:14 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : standard



#761 s-1623
Operator: NEO

Weight = 8.05 mg Method: E16-2B 09:14 Apr-14-06
ID Code 2 : cystine ID Code 3 : standard

S = 26.68 %

P: 0.2308 R(L): 1.625 T: 100



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NBS 4/14/06 y 8513-14

INSPECTED
NBS 4/14/06 y 8435, y 8438

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4/14/06-B

E16-2A

C/N 10991/11202/11569

Inst # 352

SHS

S#4/17/06

BLANK STD
KEYED 5.3.06
MK

14:44 Apr-14-06	E16-2A Method
Author: superuser Created: 16:37 Sep-20-04 Revised: 13:12 Nov-18-05	
Trace S by SC-432DR: 0.00--1.5mgS	
Calibrate with NBS SRM 1549 MILK POWDER. Add V205 to oils, plants, steel, and coke samples.	
Furnace Temp.:	1375 °C
Lance Delay:	20 Seconds
Analysis Time:	100 to 260 Seconds
Comparator Level:	1.0 %
Blank at 1g:	0.0000 %
Absolute Units:	No
Units:	%
Factor:	1.000
Result Format:	S
Detection Range:	Low
Low Calibration:	Quadratic Regressed
	$0.1363 \times \text{Area}^2 + 1.099 \times \text{Area} - 0.00219$
	Range 0.0 to 0.8 ug
	Last Calibrated 15:55 Apr-13-06

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14:44 Apr-14-06 Patient Monitor				
Parameter	Value	Minimum	Maximum	Check
Combustion Temp (°C)	1376	1375	1376	
IR Oven Temp (°C)	48.1	48.1	48.1	
Blank Pressure (mmHg)	15.6	15.4	15.9	

Parameter	Value	MINIMUM	MAXIMUM	Check
Combustion Temp (°C)	1376	1375	1376	
IR Oven Temp (°C)	48.1	48.1	48.1	
Flow Pressure (psid)	15.4	15.4	15.8	
Back Pressure (mm Hg)	801.2	800.5	810.5	
Low Sulfur IR Cell (Volts)	8.3417	8.3379	8.3427	
High Sulfur IR Cell (Volts)	8.5954	8.5938	8.5960	

#	ID Code	Weight	ID Code 2	ID Code 3	Method
1	cond	5.42	cystine	Standard	E16-2A
2	cond	5.83	cystine	Standard	E16-2A
2	cond	7.11	cystine	Standard	E16-2A
4	CALIB-A	29.92		Standard	E16-2A
5	CALIB-A	40.02		Standard	E16-2A
6	CALIB-A	60.82		Standard	E16-2A
7	CALIB-A	100.22		Standard	E16-2A
8	CALIB-A	134.87		Standard	E16-2A
9	CALIB-A	164.94		Standard	E16-2A
10	CALIB-A	174.99		Standard	E16-2A
11	S-00000	330.00	BLANK	Standard	E16-2A
12	S-00000	330.00	BLANK	Standard	E16-2A
13	S-00000	330.00	BLANK	Standard	E16-2A

Warning: Low Sulfur Area is out of Calibration Range.

Area = 1.3 (Should be (= 0.8))

#753 cond Weight = 6.00 mg Method: E16-2A 14:47 Apr-14-06
Operator: NSU ID Code 2 : cystine ID Code 3 : Standard

S = 25.59 %

PI: 0.1962 R(L): 1.291 1: 100

Warning: Low Sulfur Area is out of Calibration Range.

Area = 1.2 (Should be (= 0.8))

#753 cond Weight = 5.83 mg Method: E16-2A 14:49 Apr-14-06
Operator: NSU ID Code 2 : cystine ID Code 3 : Standard

S = 25.45 %

PI: 0.1935 R(L): 1.182 1: 100

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Warning: Low Sulfur Area is out of Calibration Range.

Area = 1.4 (Should be (= 0.8))

#754 cond Weight = 7.11 mg Method: E16-2A 14:51 Apr-14-06
Operator: NSU ID Code 2 : cystine ID Code 3 : Standard

S = 26.19 %

PI: 0.2204 R(L): 1.400 1: 100

Warning: Low Sulfur Area is out of Calibration Range.

Area = 1.4 (Should be <= 0.8)

#764 cond Weight = 7.11 mg Method: E16-2A 14:51 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 26.19 %

P: 2.2341 A(L): 1.440 T: 100



#765 CALIB-A Weight = 29.92 mg Method: E16-2A 14:53 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4775 %

P: 0.3156 A(L): 0.130 T: 100



#766 CALIB-A Weight = 40.00 mg Method: E16-2A 14:55 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4781 %

P: 0.0222 A(L): 0.172 T: 100



#767 CALIB-A Weight = 69.82 mg Method: E16-2A 14:57 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4819 %

P: 0.0383 A(L): 0.297 T: 100



#768 CALIB-A Weight = 100.20 mg Method: E16-2A 14:59 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4873 %

P: 0.0055 A(L): 0.424 T: 100



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#769 CALIB-A Weight = 134.87 mg Method: E16-2A 15:01 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4949 %

P: 0.2741 A(L): 0.564 T: 100

#769 CALIB-A Weight = 134.87 mg Method: E16-2A 15:01 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.4949 %

P: 0.0741 A(L): 0.569 T: 100

#770 CALIB-P Weight = 164.94 mg Method: E16-2A 15:03 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.5016 %

P: 0.0717 A(L): 0.695 T: 100

#771 CALIB-A Weight = 174.99 mg Method: E16-2A 15:05 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : Standard

S = 0.5064 %

P: 0.0558 A(L): 0.741 T: 100

#773 s-0000 Weight = 350.00 mg Method: E16-2A 15:07 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = -0.00032 %

P: 0.0001 A(L): 0.001 T: 100

#774 s-0000 Weight = 350.00 mg Method: E16-2A 15:09 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = 0.00036 %

P: 0.0001 A(L): 2.000 T: 100

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#776 s-0000 Weight = 350.00 mg Method: E16-2A 15:11 Apr-14-06
Operator: NEO ID Code 2 : BLANK ID Code 3 : Standard

S = -0.00046 %

P: 0.0001 A(L): 0.001 T: 100

#774 5-00000
Operator: NEU

Weight = 350.00 mg
ID Code 2 : BLANK

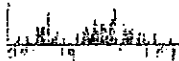
Method: E16-2A

15:11 Apr-14-06

ID Code 3 : Standard

S = -0.00046 %

P: 0.0001 S(L): 0.001 T: 100



15:21 Apr-14-06 Low Sulfur Calibration						
#	ID Code	Weight	Sulfur	Standard	% Error	Time & Date
765	CALIB-A	29.92	0.5173	0.5120	+1.0414	14:53 Apr-14-06
766	CALIB-A	40.00	0.5155	0.5120	+0.6889	14:55 Apr-14-06
767	CALIB-A	69.82	0.5125	0.5120	+0.0972	14:57 Apr-14-06
768	CALIB-A	100.20	0.5111	0.5120	-0.1790	14:59 Apr-14-06
769	CALIB-A	134.87	0.5110	0.5120	-0.1902	15:01 Apr-14-06
770	CALIB-A	164.94	0.5110	0.5120	-0.2044	15:03 Apr-14-06
771	CALIB-A	174.99	0.5134	0.5120	+0.2759	15:05 Apr-14-06
772	s-0000	350.00	-0.00037	0.0000	- - -	15:07 Apr-14-06
773	s-0000	350.00	0.00039	0.0000	- - -	15:09 Apr-14-06
774	s-0000	350.00	-0.00052	0.0000	- - -	15:11 Apr-14-06

Old Low Sulfur Calibration						
Sulfur = 0.1353*Area* + 1.099*Area - 0.00219						
Range : 0.0000 to 0.0264 mg						
Fit = 0.00010 Calibration time : 15:55 Apr-13-06						

New Low Sulfur Calibration						
Sulfur = 2.01019*Area* + 1.209*Area - 0.00216						
Range : 0.0000 to 0.0146 mg						
Fit = 0.00002 Calibration time : 15:21 Apr-14-06						

15:16 Apr-14-06 Sample Weights					
#	ID Code	Weight	ID Code 2	ID Code 3	Method
1	cond	8.39	cystine	Standard	E16-2A
2	cond	6.05	cystine	Standard	E16-2A
3	s-1654	99.95	standard	Milk Powder	E16-2A
4	s-1654	175.16	MILK POWDER	Standard	E16-2A
5	Y-9010	43.31		3-5 RUSH	E16-2A
6	Y-9011	40.80		3-5 RUSH	E16-2A
7	Y-9012	49.10		3-5 RUSH	E16-2A
8	Y-9013	42.55		3-5 RUSH	E16-2A
9	Y-8435	41.08			E16-2A
10	Y-8435 DUP	42.45			E16-2A
11	Y-8435	46.85			E16-2A
12	Y-8435 DUP	41.01			E16-2A
13	Y-8437	42.11			E16-2A
14	Y-8437 DUP	48.33			E16-2A
15	s-1654	124.80	MILK POWDER	Standard	E16-2A
16	s-1654	200.13	MILK POWDER	Standard	E16-2A

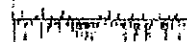
EXACT COPY OF
RAW DATA
5/8/06
C6

#775 cond Weight = 8.39 mg Method: E16-2A 16:19 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

63

S = -0.04187 %

P: 0.0000 R(L): -0.001 T: 100



Error: Unable to raise loader block.

Warning: Low Sulfur Area is out of Calibration Range.

Area = 1.8 (Should be <= 0.8)

#776 cond Weight = 6.05 mg Method: E16-2A 16:31 Apr-14-06
Operator: NEO ID Code 2 : cystine ID Code 3 : Standard

S = 36.31 %

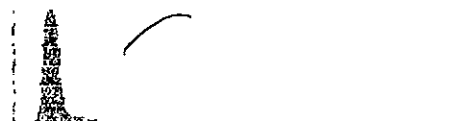
P: 0.2536 R(L): 1.792 T: 100



#777 s-1654 Weight = 99.98 mg Method: E16-2A 16:33 Apr-14-06
Operator: NEO ID Code 2 : standard ID Code 3 : Milk Powder

S = 0.3482 %

P: 0.0242 R(L): 0.289 T: 100



#778 s-1654 Weight = 170.16 mg Method: E16-2A 16:36 Apr-14-06
Operator: NEO ID Code 2 : MILK POWDER ID Code 3 : Standard

S = 0.3459 %

P: 0.0097 R(L): 0.500 T: 100



#779 Y-9010 Weight = 43.81 mg Method: E16-2A 16:38 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : 3-5 RUSH

S = 1.252 %

P: 0.2703 R(L): 0.454 T: 100



#780 Y-9011 Weight = 48.80 mg Method: E16-2A 16:40 Apr-14-06
Operator: NEO ID Code 2 : ID Code 3 : 3-5 RUSH

S = 0.1877 %

P: 0.0005 R(L): 0.360 T: 100

RECEIVED stamp upside down 4/14/06

EXACT COPY OF
RAW DATA
5/8/06

#780 Y-9011
Operator: NEO

Weight = 40.80 mg
ID Code 2 :

Method: E16-2A

16:40 Apr-14-06

ID Code 3 : 3-5 RUSH

S = 0.1877 %

P: 0.0005 A(L): 0.265 T: 100

RECHECK stamp upside down
NEO 4/14/06

RECHECK
w/ more sp/

#781 Y-9012
Operator: NEO

Weight = 49.10 mg
ID Code 2 :

Method: E16-2A

16:42 Apr-14-06

ID Code 3 : 3-5 RUSH

S = 1.380 %

P: 0.0799 A(L): 0.560 T: 100

#782 Y-9013
Operator: NEO

Weight = 42.55 mg
ID Code 2 :

Method: E16-2A

16:44 Apr-14-06

ID Code 3 : 3-5 RUSH

S = 1.646 %

P: 0.1056 A(L): 0.979 T: 100

#783 Y-9435
Operator: NEO

Weight = 41.03 mg
ID Code 2 :

Method: E16-2A

16:46 Apr-14-06

ID Code 3 :

S = 0.1674 %

P: 0.0022 A(L): 0.059 T: 100

4.2%

NEO 4/24/06

RECHECK ①

#784 Y-9435 DUP
Operator: NEO

Weight = 42.45 mg
ID Code 2 :

Method: E16-2A

16:48 Apr-14-06

ID Code 3 :

S = 0.05593 %

P: 0.0011 A(L): 0.022 T: 100

4.2%

NEO 4/24/06

RECHECK ②

#785 Y-8435
Operator: NEO

Weight = 46.85 mg
ID Code 2 :

Method: E16-2A

16:50 Apr-14-06

ID Code 3 :

S = 0.1243 %

4.2%

EXACT COPY OF
RAW DATA
5/3/06
CP

#785 Y-8436 Weight = 46.95 mg Method: E16-2A 16:50 Apr-14-06
Operator: NEQ ID Code 2 : Reg Inter. ③ ID Code 3 :

S = 0.1243 %

P: 0.0048 A(L): 0.050 T: 100

4.2%
NEQ
4/24/06

RECHECK 7 ①

#786 Y-8436 DUP Weight = 41.91 mg Method: E16-2A 16:52 Apr-14-06
Operator: NEQ ID Code 2 : Reg Inter. ③ ID Code 3 :

S = 0.1897 %

P: 0.0032 A(L): 0.050 T: 100

4.2%
NEQ
4/24/06

RECHECK 7 ①

#787 Y-8437 Weight = 42.11 mg Method: E16-2A 16:54 Apr-14-06
Operator: NEQ ID Code 2 : Reg Inter. ③ ID Code 3 :

S = 0.1574 %

P: 0.0044 A(L): 0.057 T: 100

4.2%
NEQ
4/24/06

RECHECK 7 ①

#788 Y-8437 DUP Weight = 48.33 mg Method: E16-2A 16:56 Apr-14-06
Operator: NEQ ID Code 2 : ID Code 3 : Reg Inter. ③

S = 0.2457 %

P: 0.0079 A(L): 0.100 T: 100

4.2% ②
NEQ
4/24/06

② Result is above minimum level. Report Result - original ①
NEQ
4/24/06

RECHECK 7 ①

① sample had poor precision for every other SIF test performed (CHNO). Report these values 4/17/06

#789 S-1654 Weight = 124.80 mg Method: E16-2A 16:58 Apr-14-06
Operator: NEQ ID Code 2 : MILK POWDER ID Code 3 : Standard

S = 0.3502 %

P: 0.0207 A(L): 0.362 T: 100

EXACT COPY OF
RAW DATA
5/8/06
EG

#790 S-1654 Weight = 200.13 mg Method: E16-2A 17:00 Apr-14-06
Operator: NEQ ID Code 2 : MILK POWDER ID Code 3 : Standard

S = 0.3492 %

P: 0.0370 A(L): 0.577 T: 100

S = 0.3492 %

P: 0.0270 A(L): 0.577 T: 100



#791 Y-9011 Weight = 32.83 mg Method: E16-2A 17:04 Apr-14-06
Operator: NEU ID Code 2 : ID Code 3 : 3-5 RUSH

S = 0.2143 %

P: 0.0057 A(L): 0.096 T: 100



WARNING: Low Sulfur Area is out of Calibration Range.

Area = 1.1 (Should be <= 0.9)

#792 Y-9023 Weight = 20.87 mg Method: E16-2A 17:06 Apr-14-06
Operator: NEU ID Code 2 : ID Code 3 : 24 RUSH

S = 6.560 %

P: 0.0503 A(L): 1.124 T: 100



RECHECK
on General

#793 Y-8430 Weight = 43.35 mg Method: E16-2A 17:08 Apr-14-06
Operator: NEU ID Code 2 : ID Code 3 : Reg Inter ③

S = 0.1727 %

P: 2.3058 A(L): 0.064 T: 100

< 0.2 wmc 4/16/06

RECHECK
w/ more sp/



#794 Y-8439 Weight = 99.95 mg Method: E16-2A 17:14 Apr-14-06
Operator: NEU ID Code 2 : ID Code 3 : Reg Inter ③

S = 0.1380 %

P: 0.2057 A(L): 0.116 T: 100



EXACT COPY OF
RAW DATA
5/8/06

#795 Y-8439 DUP Weight = 101.90 mg Method: E16-2A 17:16 Apr-14-06
Operator: NEU ID Code 2 : ID Code 3 : Reg Inter ③

S = 0.1390 %

P: 0.2052 A(L): 0.119 T: 100

#795 Y-5439 DUP Weight = 101.90 mg Method: E16-2A 17:16 Apr-14-06
 Operator: NEO ID Code 2 : ID Code 3 : Reg Inter ③

S = 0.1390 %

P: 0.0053 A(L): 0.119 T: 100

#796 Y-5438 Weight = 126.75 mg Method: E16-2A 17:23 Apr-14-06
 Operator: NEO ID Code 2 : ID Code 3 : Reg Inter ③

S = 0.1190 %

P: 0.0054 A(L): 0.127 T: 153

INSPECTED 4/21/04
 8435-37
 8438-39

#797 s-1654 Weight = 79.69 mg Method: E16-2A 17:25 Apr-14-06
 Operator: NEO ID Code 2 : MILK POWDER ID Code 3 : Standard

S = 0.3414 %

P: 0.2227 A(L): 0.227 T: 100

#798 s-1654 Weight = 149.89 mg Method: E16-2A 17:27 Apr-14-06
 Operator: NEO ID Code 2 : MILK POWDER ID Code 3 : Standard

S = 0.3439 %

P: 0.2240 A(L): 0.427 T: 100

EXACT COPY OF
 RAW DATA
 5/8/06
 CO

③ Analysis left off
Reg. Inter. on Y8435-9
VED 4/24/06

EXACT COPY OF
RAW DATA
5/8/08

Sample Receipt Documentation

**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

STL Knoxville Lot Number: AWD040101
STL Knoxville Project Number: 142541

NOTE: After Log-In, please send a copy of the completed RFA/COC to STL Knoxville c/o Patti Carswell.

Project Identification: Westates Carbon CPT		Laboratory Deliverable Turnaround Requirements:	
STL Knoxville Project Number:	142541	Analytical Due Date:	21 Days from Lab Receipt (Review-Released Data)
STL Contact:	Ms. Patti Carswell (865) 291-3010	Data Package Due Date:	21 Days from Lab Receipt
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080	Laboratory Destination:	Galbraith Laboratories 2323 Sycamore Drive Knoxville, Tennessee 37921
Analytical Testing QC Requirements: The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, and "PDS" = Post Digestion Spike		Courier:	FedEx/Hand Deliver
Project Deliverables: Report analytical results in a data package. Include "Field Number", "Sample Type", and "Run Number" on all Reports.			
Holding Time Requirements:			
Ultimate (Elemental) Analysis		30 Days to Analysis.	

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2887-R1-Spent Activated Carbon	3-28-06	DUP	125 mL Powder Jar	Spent Activated Carbon - Run #1 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.
G-2985-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	Spent Activated Carbon - Run #2 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.
G-3068-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	Spent Activated Carbon - Run #3 Ultimate Analysis	Prepare and analyze sample for ultimate (elemental - carbon, hydrogen, nitrogen, oxygen, & sulfur) analysis by Method ASTM D-482-03. Report the data on a Certificate of Analysis and in a data package.

**Request for Analysis/Chain-of-Custody – RFA/COC #010 [Ultimate Analysis]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

H162040101

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

NA

- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

5.0°C

- (3) Record any apparent sample loss/breakage.

NA

- (4) Record any unidentified samples transported with this shipment of samples:

NA

- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

NA

Custody Transfer:

Hand delivered

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus

Project: We States Carbon

Lot Number: H60040101

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	14a - COC not Relinquished (signed, date, time)
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6°C)	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☒ 4a Not present ☐ 4b Not intact ☐ 4c Other: <u>Hand delivered</u>	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: 6435

PM Instructions: _____

Sample Receiving Associate: [Signature]

Date: 4/3/06

QA026R18.doc, 1/30/06

SUBMITTER INFORMATION

Sample I.D. G-2887-R1-Spent Activated Carbon *

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address:
(Line 1) 5815 Middlebrook Pike

(Line 2) _____

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # _____ Amount \$ _____

Quotation # (if applicable) _____

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name _____

Acct # _____

Expiration Date _____

Signature _____

Address:
(Line 1) _____

(Line 2) _____

City _____ State/Province _____

Postal Code _____

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

☐ Freeze @ -10 to -20°C ☐ Sensitive to _____

☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂* _____

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar* _____

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection (Specify): _____

☐ Non-hazardous

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves (Specify): _____

☐ Carcinogenic/Toxic

☐ Explosive

☐ MSDS (include) ☐ Other Protective Equipment (Specify): _____

☐ Pyrophoric

☐ Volatile

☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (if Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373,

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other _____

AUTHORIZED RELEASE OF INFORMATION

Galbraith releases information regarding work received to only the submitter named on this form. With authorization, we may release information to others, such as work associates. If appropriate, please list names below. ☒ Yes ☐ No (please initial) _____

Diane Lange or Billy Anderson

SAMPLE RETURN / DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Date 4/4/06

include a return address if different from the report address:
STL Knoxville will pick-up all excess volume.

State/Province _____
Postal Code _____

COMMENTS

Include this RFA / CoC with the raw data report.

x results, 6-10 DAY Raw data (Final Report) needed.

copy data report as soon as possible

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Repli
☒ Regular	☐ Phone Results	☐ Basic	☐ Sin
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☒ Du
☐ 24-48 Hour Rush*	☐ Raw Data Copies*	☐ Regulatory*	☐ Du
	☒ QC Summary*	☐ Custom*	☐ onl
			☐ and
			☐ dis
			☐ with
			☐ or r
			☐ Tri
			☐ Oth

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐
☐ Drug	☐ Organometallic	☐ Polymer	☐
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic	☐ RDF	☐	☐ Waste

Please provide a "stand alone"

RAW DATA & QC Summary for these samples.

Thank you,
Kevin Woodcock
291-3082

EXACT COPY OF
RAW DATA

5/9/06

UNKNOWN

o.: H6D040101-001

COOLER - RTN=yes

INFO PER
PO / LTR / COEC

SUBMITTER INFORMATION	
Sample I.D.	G-2985-R2-Spent Activated Carbon
Amount of Sample	~125mL powder jar
To:	Mr. Kevin S. Woodcock
Title	Project Manager
Company	STL Knoxville
Address:	
(Line 1)	5815 Middlebrook Pike
(Line 2)	
City	Knoxville
State/Province	TN
Country	USA
Postal Code	37921
Phone	291-3082
Fax	584-4315
E-mail	kwoodcock@stl-inc.com

METHOD OF PAYMENT	
Purchase Order #	H6D040101
Prepayment Check #	Amount \$
Quotation # (if applicable)	
Credit Card:	☐ Visa ☐ MasterCard ☐ American Express
Card Holder Name	
Acct #	
Expiration Date	APR - 5 2006
Signature	
Address:	
(Line 1)	
(Line 2)	
City	
State/Province	
Postal Code	

TYPE OF SERVICE			
Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☒ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☐ Duplicate*
☐ 24-48 Hour Rush*	☒ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only if 1 st analysis disagrees with theory or range*
	☒ QC Summary*	☐ Custom*	☐ Triplicate*
			☐ Other*

SAMPLE TYPE			
☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other Waste
☐ Inorganic	☐ RDF		

HANDLING & PREPARATION	
☐ Dry before analysis* _____ hrs _____ °C _____ vacuum	☐ Sensitive to _____
☐ Freeze @ -10 to -20°C	☐ Weigh under N ₂ *
☐ Grind*	☐ Weigh under Ar*
☐ Hygroscopic	
☐ Refrigerate @ 2 - 8°C	

SAMPLE CHARACTERISTICS	
☐ Hazards Unknown	☐ Inhalation: Respiratory Protection (Specify): _____
☐ Non-hazardous	
☒ Hazardous	
☐ Biohazardous*	☐ Skin Absorption: Gloves (Specify): _____
☐ Carcinogenic/Toxic	
☐ Explosive	
☐ MSDS (Include)	☐ Other Protective Equipment (Specify): _____
☐ Pyrophoric	
☐ Volatile	
☐ Other _____	
MP _____ °C BP _____ °C @ _____ mmHg	
Mol. Wt. _____ Soluble in _____	

LIST ANALYSES DESIRED			
If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.			
Test	Theory/Range	Detection Limit Req'd	Method (If Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373
EXACT COPY OF RAW DATA 3/9/06 CONDITION: DRY IN: BOX COOLER LETTER ONE DRY ICE COOLER PACKS ICE ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT
STANDARD PACKAGING HAZARDOUS MATERIAL

PURPOSE OF TESTING		
MACT		

REGULATED STUDIES		
Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*		
EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	☐ Other _____

AUTHORIZED RELEASE OF INFORMATION	
Galbraith releases information regarding work received to only the submitter named on this form. With authorization, we may release information to others, such as work associates. If appropriate, please list names below. ☒ Yes ☐ No (please initial)	
Diane Lange or Billy Anderson	

SAMPLE RETURN / DISPOSAL	
This section MUST be completed.	
The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*	
This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.	
Signature	Date 4/4/06
Please include a return address if different from the report address:	
(Line 1) STL Knoxville will pick-up all excess volume.	
(Line 2)	
City	State/Province
Country	Postal Code

COMMENTS
Please include this RFA / CoC with the raw data report.
10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.
Final Hardcopy data report as soon as possible
STL Lot No.: H6D040101-002

SUBMITTER INFORMATION

Sample I.D. G-3068-R3-Spent Activated Carbon

Amount of Sample ~125mL powder jar

To: Mr. Kevin S. Woodcock

Title Project Manager

Company STL Knoxville

Address:
(Line 1) 5815 Middlebrook Pike

(Line 2) _____

City Knoxville State/Province TN

Country USA Postal Code 37921

Phone 291-3082 Fax 584-4315

E-mail kwoodcock@stl-inc.com

METHOD OF PAYMENT

Purchase Order # H6D040101

Prepayment Check # _____ Amount \$ _____

Quotation # (if applicable) _____

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Card Holder Name _____

Acct # _____

Expiration Date _____

Signature _____

Address: APR - 5 2006

(Line 1) _____

(Line 2) _____

City _____ State/Province _____

y _____ Postal Code _____

TYPE OF SERVICE

Turnaround	Data Delivery	QA Level	Replicates
☒ Regular	☐ Phone Results	☐ Basic	☒ Single
☐ 3-5 Day Rush*	☐ Overnight Delivery of Results*	☒ Intermediate*	☐ Duplicate*
☐ 24-48 Hour Rush*	☒ Raw Data Copies*	☐ Regulatory*	☐ Duplicate only if 1 st analysis disagrees with theory or range*
	☒ QC Summary*	☐ Custom*	☐ Triplicate*
			☐ Other*

SAMPLE TYPE

☐ Black Liquor	☐ Medical Device	☐ Paper/Pulp	☐ Soil
☐ Coal/Coke	☒ Organic	☐ Petroleum	☐ Water
☐ Drug	☐ Organometallic	☐ Polymer	☐ Wood
☐ Food	☐ Paint/Ink	☐ Protein	☒ Other
☐ Inorganic		☐ RDF	Waste

HANDLING & PREPARATION

☐ Dry before analysis* _____ hrs _____ °C _____ vacuum

☐ Freeze @ -10 to -20°C ☐ Sensitive to _____

☐ Grind* _____

☐ Hygroscopic ☐ Weigh under N₂*

☐ Refrigerate @ 2 - 8°C ☐ Weigh under Ar*

SAMPLE CHARACTERISTICS

☐ Hazards Unknown ☐ Inhalation: Respiratory Protection

☐ Non-hazardous (Specify): _____

☒ Hazardous

☐ Biohazardous* ☐ Skin Absorption: Gloves

☐ Carcinogenic/Toxic (Specify): _____

☐ Explosive

☐ MSDS (Include) ☐ Other Protective Equipment

☐ Pyrophoric (Specify): _____

☐ Volatile

☐ Other _____

MP _____ °C BP _____ °C @ _____ mmHg

Mol. Wt. _____ Soluble in _____

LIST ANALYSES DESIRED

If repeat analyses are required due to lack of information, extra charges may apply. If sample size is limited, prioritize analyses requested.

Test	Theory/Range	Detection Limit Req'd	Method (if Req'd)
Elemental Analysis (C,H,N,S,O)			D3176,D5373
EXACT COPY OF			
RAW DATA			
STALOY			
CONDITION REQUESTED			
IN: BOX COOLER LETTER			
ON: DRY ICE COOLER PACKS			
ICE < ROOM TEMPERATURE			

COMPOUND/STRUCTURE/OTHER ELEMENTS PRESENT

STALOY

HAZARDOUS UNKNOWN

PURPOSE OF TESTING

MACT

REGULATED STUDIES

Check regulations only if they are specifically required for your current sample submission. Extra charges apply.*

EPA	FDA	Other
☐ CERCLA	☐ RCRA	☐ GLP
☐ FIFRA	☐ TSCA	☐ GMP
☐ GLP	☐ Drinking Water	

AUTHORIZED RELEASE OF INFORMATION

Galbraith releases information regarding work received to only the submitter named on this form. With authorization, we may release information to others, such as work associates. If appropriate, please list names below. ☒ Yes ☐ No (please initial)

Diane Lange or Billy Anderson

SAMPLE RETURN / DISPOSAL

This section MUST be completed.

The original sample remains the client's property at all times. We retain samples for 90 days prior to disposal or return. See reverse side for sample retain policy.*

This sample ☐ IS ☒ IS NOT suitable for disposal in a sanitary landfill or sewer without treatment or packaging.

Signature _____ Date 4/4/06

Please include a return address if different from the report address:
(Line 1) STL Knoxville will pick-up all excess volume.

(Line 2) _____

City _____ State/Province _____

Country _____ Postal Code _____

COMMENTS

Please include this RFA / CoC with the raw data report.

10 DAY fax results, 6-10 DAY Raw data (Final Report) needed.

Final Hardcopy data report as soon as possible

STL Lot No.: H6D040101-003