ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

US EPA RECORDS CENTER REGION 5
586650

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte: PAH	pH	Grain Size	TOC	PRO	TAG NUMBERS
	INDIANA HARBOR							Activity Code: 501020

SAMPLERS: *(Print Name and Sign)*
STEVE Rock

SF0305007
SHEET 1 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TAG NUMBERS
	21 May 2003		X		INDIANA HARBOR	1	SX67-3 0-12"
							SX61-1 0-12"
							DN5-2 0-12"
							OP367-1 0-12"
							SX67-2 0-12"
							SX61-3 0-12"
							DN182-2 0-12"
							SV1-1 0-12"
							DN182-1 0-12"
							SV1-4 0-12"
							SX67-1 0-12"
							OP367-2 0-12"
							NM6-2 0-12"
						1	SV1-3 0-12"
	21 MAY 03				INDIANA HARBOR	1	SV1-2 0-12"

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Steve Rock	5/22 2pm	William Lynch
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		William Lynch 5/22/03 14:08

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31828

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte:						Activity Code: 50102D
	INDIANA HARBOR								

SAMPLERS: *(Print Name and Sign)* STEVE Rock [signature]

SF 0305007
SHEET 1 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte:						TAG NUMBERS	
	21 May 2003		X		INDIANA HARBOR	1							SX67-3	0-12"
													SX61-1	0-12"
													DN5-2	0-12"
													OP367-1	0-12"
													SX67-2	0-12"
													SX61-3	0-12"
													DN182-2	0-12"
													SV1-1	0-12"
													DN182-1	0-12"
													SV1-4	0-12"
													SX67-1	0-12"
													OP367-2	0-12"
													NM6-2	0-12"
													SV1-3	0-12"
	21 May 03				INDIANA HARBOR	1							SV1-2	0-12"

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Ship To:
[signature]	5/22 2pm	[signature]	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	ATTN:
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* [signature] Date / Time 5/22/03 14:08	Airbill Number
			Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31828

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Activity Code:
	INDIANA	501020

SAMPLERS: *(Print Name and Sign)*
Steve Rock

SF 0305007
SHEET 2 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: PAH	pH	GRAIN SIZE	TOC	DRO	TAG NUMBERS
	22 MAY 2003		X		INDIANA HARBOR	1						SR 3-4
						1						SR 1-2
						1						OP 367-4
						1						DNS-3
						1						SR 5-6
						1						SX67-5
						1						SV1-5
						1						SRN 3-4
						1						SX61-4
						1						DN182-4
						1						SX67-4
						1						OP367-3
						1						SX61-6
						1						PHRAGMITES
						1						SV1-6

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Ship To:
Steve Rock	5/22 2pm	E Williams Jr	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	ATTN:
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* E Williams Jr — Date / Time 5/22/03 14:08	Airbill Number
			Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31829

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Activity Code:
	INDIANA	501020

SAMPLERS: *(Print Name and Sign)* Steve Rock [signature]

SF 0305007
SHOOT 2 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: PNI	pH	GRAN SIZE	TOC	DRO	TAG NUMBERS
	22 MAY 2003		X		INDIANA HARBOR	1						SR 3-4
						1						SR 1-2
						1						OP367-4
						1						DN5-3
						1						SR5-6
						1						SX67-5
						1						SV1-5
						1						SRN 3-4
						1						SX61-4
						1						DN182-4
						1						SX67-4
						1						OP367-3
						1						SX61-6
						1						PHRAGMITES
						1						SV1-6

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Ship To:
[signature]	5/22 2 pm	William [signature]	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	ATTN:
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* William [signature] — Date / Time 5/22/03 14:08	Airbill Number
			Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31829

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Activity Code:
	INDIANA HARBOR	50020

SAMPLERS: *(Print Name and Sign)*
STEVE Rock

SF0305007
STAGE 3 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: PAH	PH	GRAIN SIZE	TOC	DRO	TAG NUMBERS
	22 May 2003		X		INDIANA HARBOR	1						DN182-3
						1						SRN1-2
						1						SRN5-6
						1						SX61-5
						1						NM6-3
						1						SX67-6
						1						DN5-4
	22 May 2003		X									

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Steve Rock	5/22 2pm	William Lynch
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* William Lynch — Date / Time: 5/22/03 14:08

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31830

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Activity Code:
	INDIANA HARBOR	541020

SAMPLERS: *(Print Name and Sign)*
STEVE Rock

SF030507
SHEET 3 OF 4

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: PAH	PH	GRAIN SIZE	TOC	DRO		TAG NUMBERS
	22 Nov 2003		X		INDIANA HARBOR	1							DN182-3
						1							SRN1-2
						1							SRN5-6
						1							SX61-5
						1							NM6-3
						1							SX67-6
						1							DN5-4
	22 Nov 2003		X										

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	5/22 2pm	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		5/22/03 14:05

Ship To:

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; **Yellow** - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31830

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte: PAH	PH	GRAIN SIZE	TOC	DRO	Activity Code: 5U1U2D
	INDIANA HARBOR							SF0305CU7 SHEET 4 OF 4

SAMPLERS: *(Print Name and Sign)* STEVE Rock

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TAG NUMBERS
	21 May 2013		X		INDIANA HARBOR 5	1	DN5-1
							NM6-1
							SX61-2
	21 May 2013						

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Steve Rock	5/22 2pm	William Lynch
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		William Lynch 5/22/13 14:08

Ship To: Sampler's phone 513-569-7149

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31831

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte: PAH	PH	GRAIN SIZE	TOC	DRO	Activity Code: 507620
	INDIANA HARBOR							SF0305007 SHEET 4 OF 4

SAMPLERS: *(Print Name and Sign)* STEVE Rock

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TAG NUMBERS
	21 MAY 2003		X		INDIANA HARBOR	1	DN5-1
	21 MAY 2003		X			1	NM6-1
			X			1	SX61-2
	21 MAY 2003						

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	5/22 2:00	[signature]
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		[signature] 5/22/03 14:08

Ship To: [illegible]

ATTN:

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

Printed on Recycled Paper/Printed with Soy-Based Ink

5-31831

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 5/23/03 9:55:48A**

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Report To:
Betty Lavis
Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: (312) 886-7183
Fax: (312) 886-6171

Date Due: Jun-22-03 15:00 (30 day TAT)
Received By: William Sargent Date Received: May-22-03 14:08
Logged In By: William Sargent Date Logged In: May-22-03 16:44

Samples Received at:	°C
Labels	Yes
Seals Intact	Yes
Received on ice	No
Paperwork Included	Yes

Analysis	Due	TAT	Expires	Comments
0305007-01 SX67-3 [Soil] Sampled May-21-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-02 SX61-1 [Soil] Sampled May-21-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Analysis	Due	TAT	Expires	Comments
0305007-03 DNS-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-04 OP367-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-05 SX67-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-06 SX61-3 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 Project Manager: Marilyn Jupp
Project: Indiana Harbor Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-07 DN182-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-08 SV1-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-09 DN182-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-10 SV1-4 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5
Project: Indiana Harbor

Project Manager: Marilyn Jupp
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-11 SX67-1 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-12 OP367-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-13 NM6-2 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-14 SV1-3 [Soil] Sampled May-21-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Analysis	Due	TAT	Expires	Comments
0305007-15 SV1-2 [Soil] Sampled May-21-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-20-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-04-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-28-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-18-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-21-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-18-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-20-03 00:00	
0305007-16 SR3-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-17 SR1-2 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-18 OP367-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 Project Manager: Marilyn Jupp
Project: Indiana Harbor Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-19 DN5-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-20 SR5-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-21 SX67-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-22 SV1-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 Project Manager: Marilyn Jupp
Project: Indiana Harbor Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-23 SRN 3-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-24 SX61-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-25 DN182-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-26 SX67-4 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Analysis	Due	TAT	Expires	Comments
0305007-27 OP367-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-28 SX61-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-29 PHRAGMITES [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-30 SV1-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 Project Manager: Marilyn Jupp
Project: Indiana Harbor Project Number: [none]

Analysis	Due	TAT	Expires	Comments
0305007-31 DN182-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-32 SRN1-2 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-33 SRN5-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-34 SX61-5 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Analysis	Due	TAT	Expires	Comments
0305007-35 NM6-3 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-36 SX67-6 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-37 DN5-4 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-38 DN5-1 [Soil] Sampled May-22-03 00:00 Central				**0-12**
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

0305007

US EPA Region 5 Central Regional Laboratory

Client: Superfund, US EPA Region 5 **Project Manager:** Marilyn Jupp
Project: Indiana Harbor **Project Number:** [none]

Analysis	Due	TAT	Expires	Comments
0305007-39 NM6-1 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	
0305007-40 SX61-2 [Soil] Sampled May-22-03 00:00 Central				0-12
Grain size	Jul-23-03 12:00	60	May-21-04 00:00	
SVOA - PAHs	Jul-23-03 12:00	60	Jun-05-03 00:00	
Solids, Dry Weight	Jul-23-03 12:00	60	May-29-03 00:00	
O&G by Soxtec	Jul-23-03 12:00	60	Jun-19-03 00:00	
pH Soils and wastes	Jul-23-03 12:00	60	May-22-03 00:28	
TOC Soil	Jul-23-03 12:00	60	Jun-19-03 00:00	
Metals SF pkg (S)	Jul-23-03 12:00	60	Jun-21-03 00:00	

Analysis groups included in this work order

Metals SF pkg (S)

Ag ICP (S)	Al ICP (S)	As GFAA SimAA (S)	Ba ICP (S)
Be ICP (S)	Ca ICP (S)	Cd GFAA SimAA (S)	Cd ICP (S)
Co ICP (S)	Cr ICP (S)	Cu ICP (S)	Fe ICP (S)
K ICP (S)	Mg ICP (S)	Mn ICP (S)	Na ICP (S)
Ni ICP (S)	Pb GFAA SimAA (S)	Pb ICP (S)	Sb GFAA SimAA (S)
Se GFAA SimAA (S)	Tl GFAA SimAA (S)	V ICP (S)	Zn ICP (S)

Reviewed By _____ Date _____

CENTRAL REGIONAL LABORATORY
Data Checklist

Work Order SF 0305007 INDIANA HARBOR
METALS ICP(S)

☑ **Chain of Custody**

☑ **Supporting information (raw data) present; not for transmission**

☑ **QC data present; whether being transmitted or not**

☑ **LIMS Invoice#** 3090901

☑ **Analytical and Data Review Checklist, one signed by the analyst and another signed by the reviewer - signatures may be on the same form bu there should be a separate set of check boxes for each signer.**

☑ **Final report from LIMS, each report page initialed and dated by analyst**

☑ **Reviewed Case Narrative initialed by Deputy Director**

☑ **Transmittal Memo w/signatures of the following:**

- Analyst(s)
- Environmental Data Coordinator

Prepared by: Sylvia Griffin 9/9/03
Environmental Data Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: 9/8/2003

Subject: Review of Region 5 Data for Indiana Harbor

From: Kathleen Swan, Analyst KS
Region 5 Central Regional Laboratory

To: Superfund, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Attached are Results for: Indiana Harbor

Analyses included in this report:

Metals ICP (S), 3050 dig

SEP 0 9 2003

Data Management Coordinator and Date Received

Date Transmitted: SEP 0 9 2003

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at 3-7444 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

_____ / ____ / _____

Received by and Date

Comments:

CRL Metals Data Review Checklist

Batch Number: 0305007 Facility: Indiana Harbor

Parameter: Metals ICP (S), 3050 dig

Package Overview:	Review:	
	Analyst	Peer
Raw Data Package Complete?	✓	✓
Results Reported Correctly?	✓	✓
Special Requests Done?	✓	✓
Calculations Checked?	✓	✓
Calibration Not Exceeded?	✓	✓
Field QC Checked?	—	—
Quality Control:		
Holding Times Met?	✓	✓
Preservation Checked?	✓	✓
Proper Digestion Verified?	✓	✓
Initial Instrument Performance Checks Verified?	✓	✓
Calibration Verification Checked?	✓	✓
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	✓	✓
Matrix QC Checked?	✓	✓
Digestion Blanks Checked?	✓	✓
Spiked Blank Checked?	✓	✓
LCS (if applicable) Checked?	—	✓
Species QC (if applicable) Checked?	—	NA
Final Check:		
Technical Review Done?	✓	✓
Narrative Complete? (See sect. 7 of data review SOP, HK005)	✓	✓
Electronic Review? (QA Coordinator)		

Analyst: KS Date: 082703

Peer Reviewer: [signature] Date: 5 Sept 07

CRL Form Version 02.4/02

Comments Attached? (Y/N) N

Narrative Date: 09 04 2003
Analyst: K. Swan
Work Order Number: 0305007
Study: Indiana Harbor
Parameter: Metals ICP

ICP NARRATIVE for Work Order Number 0305007

Forty (40) soil samples were submitted for analysis of Metals by ICP. The samples were collected on 05 21/22 03 and received by the CRL on 05 22 03.

The aliquots were dried and ground, by N. Fuentes of the A&IG section and digested for ICP metals by analyst on 07 22 03, 08 06 03, and 08 11 03, following the 3050B beaker digestion protocols for soil samples. Samples were analyzed within holding time. Sample analysis was performed on 07 25 03 and 08 19 03, and dilutions were run on 09 03 03.

Quality Control:

Blanks: Be has a possible -0.34 mg/kg bias, due to a negative results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged L for Be. V has a possible 6 mg/kg high bias, due to positive results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged K for V. Mo has a possible -8 mg/kg bias for samples 0305007-01 through -04; these samples are flagged L for Mo. Cu was measurably elevated in the second instrument blank of 07 25 03 run, which was due to carryover from a reference standard. Data quality is not affected by this. Reagent blank was slightly high for Al, Ca, Fe, Mg, Mo, and Zn; this does not affect data quality, with the exception of a possible 8 mg/kg high bias for Mo in samples 0305007-13, -22, -23, -32, and -33. These samples are flagged K for Mo.

Instrument QC: For samples 0305007-01 through -09, QC showed low recovery (~85%) for Cd; thus these samples are flagged L for Cd.

Matrix spike recovery: Pb spike recovery for sample 0305007-16 was 78%; thus samples 0305007-10 through -17 are flagged L for Pb.

Narrative by: KSwan Chemist, USEPA
Date: 09 08 04

OK/GCS
9-8-03

Narrative Date: 09 04 2003
Analyst: K. Swan
Work Order Number: 0305007
Study: Indiana Harbor
Parameter: Metals ICP

ICP NARRATIVE for Work Order Number 0305007

Forty (40) soil samples were submitted for analysis of Metals by ICP. The samples were collected on 05 21/22 03 and received by the CRL on 05 22 03.

The aliquots were dried and ground, by N. Fuentes of the A&IG section and digested for ICP metals by analyst on 07 22 03, 08 06 03, and 08 11 03, following the 3050B beaker digestion protocols for soil samples. Samples were analyzed within holding time. Sample analysis was performed on 07 25 03 and 08 19 03, and dilutions were run on 09 03 03.

Quality Control:

Blanks: Be has a possible -0.34 mg/kg bias, due to a negative results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged L for Be. V has a possible 6 mg/kg high bias, due to positive results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged K for V. Mo has a possible -8 mg/kg bias for samples 0305007-01 through -04; these samples are flagged L for Mo. Cu was measurably elevated in the second instrument blank of 07 25 03 run, which was due to carryover from a reference standard. Data quality is not affected by this. Reagent blank was slightly high for Al, Ca, Fe, Mg, Mo, and Zn; this does not affect data quality, with the exception of a possible 8 mg/kg high bias for Mo in samples 0305007-13, -22, -23, -32, and -33. These samples are flagged K for Mo.

Instrument QC: For samples 0305007-01 through -09, QC showed low recovery (~85%) for Cd; thus these samples are flagged L for Cd.

Matrix spike recovery: Pb spike recovery for sample 0305007-16 was 78%; thus samples 0305007-10 through -17 are flagged L for Pb.

Narrative by:_____Chemist, USEPA
Date:_____

Narrative Date: 09 04 2003
Analyst: K. Swan
Work Order Number: 0305007
Study: Indiana Harbor
Parameter: Metals ICP

ICP NARRATIVE for Work Order Number 0305007

Forty (40) soil samples were submitted for analysis of Metals by ICP. The samples were collected on 05 21/22 03 and received by the CRL on 05 22 03.

The aliquots were dried and ground, by N. Fuentes of the A&IG section and digested for ICP metals by analyst on 07 22 03, 08 06 03, and 08 11 03, following the 3050B beaker digestion protocols for soil samples. Samples were analyzed within holding time. Sample analysis was performed on 07 25 03 and 08 19 03, and dilutions were run on 09 03 03.

Quality Control:

Blanks: Be has a possible -0.34 mg/kg bias, due to a negative results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged L for Be. V has a possible 6 mg/kg high bias, due to positive results in the instrument blank, for samples 0305007-01 through -09; these samples are flagged K for V. Mo has a possible -8 mg/kg bias for samples 0305007-01 through -04; these samples are flagged L for Mo. Cu was measurably elevated in the second instrument blank of 07 25 03 run, which was due to carryover from a reference standard. Data quality is not affected by this. Reagent blank was slightly high for Al, Ca, Fe, Mg, Mo, and Zn; this does not affect data quality, with the exception of a possible 8 mg/kg high bias for Mo in samples 0305007-13, -22, -23, -32, and -33. These samples are flagged K for Mo.

Instrument QC: For samples 0305007-01 through -09, QC showed low recovery (~85%) for Cd; thus these samples are flagged L for Cd.

Matrix spike recovery: Pb spike recovery for sample 0305007-16 was 78%; thus samples 0305007-10 through -17 are flagged L for Pb.

Narrative by:_____Chemist, USEPA

Date:_____

(Notes for File 0305007)

All analytical results files, sample information files and reprocessed files for ICP can be found on the R5CRL data server using the following paths:
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 072503_01_09\3300dv and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 081903_10_40\3300dv and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 09 03 03 dil\3300dv

The narrative, QC summary spreadsheets, sample result calculation spreadsheets and the final sample report for ICP can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 072503_01_09/Reports and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 081903_10_40/Reports and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 09 03 03 dil/Reports

The instrument upload file for lims can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 072503_01_09\lims and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 081903_10_40\lim and
h:\r5crl\vol3\metals\Kswan\0305007\ICPsed 09 03 03 dil\lims. The results data sets were: 0305007 071503 IHsed and 0305007 081903 IH and 0305007 090303 dil

Narrative by:_____Chemist, USEPA

Date:_____

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 7/21/2003

METALS SAMPLE PREPARATION RECORD wts

Prepared By: KS
Digestion Method: EPA 3050B
Prepared Date: 07 22 03 -01-09

0.1999
0.5001
1.9998

Batch Number: B307012

Vessel Number	Sample Number	wt (g) Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	pH <2 Y/N*	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
1	0305007-01	0.5607						Hard tar		
2	0305007-02	0.5751						"		
3	0305007-03	0.5224						"		
4	0305007-04*	0.6996						powder-like		
8	0305007-05	0.4946						granular tar		
9	0305007-06	0.6239						tar ball		
10	0305007-07	0.5351						granular		
11	0305007-08	0.5401						granular		
12	0305007-09*	0.5215						more powdery		
17	0305007-10	0.4849						hard tar		
18	0305007-11	0.5838						granular tar		
19	0305007-12	0.5255						" "		
20	0305007-13	0.5149						hard "		
21	0305007-14	0.5343						granular "		
22	0305007-15	0.5396						" "		
23	0305007-16*	0.5464						" "		
32	0305007-17	0.5498						" "		
33	0305007-18	0.5395						sticky tar		
34	0305007-19	0.5748						granular "		
35	0305007-20	0.6276						sticky "		
36	0305007-21	0.5054						granular "		

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 7/21/2003

METALS SAMPLE PREPARATION RECORD

Prepared By: _____

Digestion Method: EPA 3050B

Prepared Date: 081103 -18-30

WO
0.2000
0.5000
1.9999

Batch Number: B307012

081303 -31-40 0.1999 0.5003 2.0000

Vessel Number	Sample Number	Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	pH <2 Y/N*	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
37	0305007-22	0.5397						gooey tar		
38	0305007-23	0.6032						"		
39	0305007-24	0.5418						granular		
40	0305007-25 X	0.5534						"		
44	0305007-26	0.6134						gooey "		
45	0305007-27	0.6649						hard "		
46	0305007-28	0.5719						tar balls		
47	0305007-29	0.5427						tar lumps		
48	0305007-30	0.5631						hard tar		
49	0305007-31	0.5454						softer tar		
50	0305007-32	0.6116						hard "		
51	0305007-33	0.5264						softer "		
52	0305007-34	0.5167						powdery		
53	0305007-35	0.5694						sandy		
54	0305007-36	0.5559						hard tar		
55	0305007-37	0.5238						powdery		
56	0305007-38	0.6063						granular		
57	0305007-39	0.6045						powdery		
58	0305007-40	0.5474						"		
16	B307012-BLK1									
27	B307012-BLK2									

59 LRB3

Environmental Protection Agency Region 5
Central Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 7/22/2003

METALS SAMPLE PREPARATION RECORD

Prepared By: ICS
Digestion Method: EPA 3050B
Prepared Date: 08 06 03 -10- 17

wt
0.2001
0.5001
2.0001

Batch Number: B307012

Vessel Number	Sample Number	Source ID	Spike #1	Spike #1 Amt (uL)	Spike #2	Spike #2 Amt (uL)	pH <2 Y/N*	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep	After Prep	Remarks
28	B307012-BS1									
29	B307012-BS2									
5	B307012-DUP1	-04	0.6983							
13	B307012-DUP2	-09	0.6554							
24	B307012-DUP3	-16	0.5055							
41	B307012-DUP4	-25	0.5426							
6	B307012-MS1	-04	0.6288							
14	B307012-MS2	-09	0.5227					small "stone"		
25	B307012-MS3	-16	0.5067							
42	B307012-MS4	-25	0.5367							
87	B307012-MS5	-04 Hi	0.5777							
15	B307012-MS6	-09	0.5330							
26	B307012-MS7	-16	0.5122							
43	B307012-MS8	-25	0.5574							
30	B307012-SRM1		0.3408							
31	B307012-SRM2		0.3339							

** Please note: A minimum of 16 hours from time of sampling must elapse before pH of sample can be taken.*
If pH>2, record and date in the Remarks column the actual pH and the amount of acid added to bring pH to < 2.

spike = 10ml { SedSpk / AgMoS4

Hi spike = 10ml Hi spk sol

V tot = 100 ml

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project:Indiana Harbor Project Number:[none] Project Manager:Betty Lavis	**Reported:** Sep-08-03 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SX67-3	0305007-01	Soil	May-21-03 00:00	May-22-03 14:08
SX61-1	0305007-02	Soil	May-21-03 00:00	May-22-03 14:08
DNS-2	0305007-03	Soil	May-21-03 00:00	May-22-03 14:08
OP367-1	0305007-04	Soil	May-21-03 00:00	May-22-03 14:08
SX67-2	0305007-05	Soil	May-21-03 00:00	May-22-03 14:08
SX61-3	0305007-06	Soil	May-21-03 00:00	May-22-03 14:08
DN182-2	0305007-07	Soil	May-21-03 00:00	May-22-03 14:08
SV1-1	0305007-08	Soil	May-21-03 00:00	May-22-03 14:08
DN182-1	0305007-09	Soil	May-21-03 00:00	May-22-03 14:08
SV1-4	0305007-10	Soil	May-21-03 00:00	May-22-03 14:08
SX67-1	0305007-11	Soil	May-21-03 00:00	May-22-03 14:08
OP367-2	0305007-12	Soil	May-21-03 00:00	May-22-03 14:08
NM6-2	0305007-13	Soil	May-21-03 00:00	May-22-03 14:08
SV1-3	0305007-14	Soil	May-21-03 00:00	May-22-03 14:08
SV1-2	0305007-15	Soil	May-21-03 00:00	May-22-03 14:08
SR3-4	0305007-16	Soil	May-22-03 00:00	May-22-03 14:08
SR1-2	0305007-17	Soil	May-22-03 00:00	May-22-03 14:08
OP367-4	0305007-18	Soil	May-22-03 00:00	May-22-03 14:08
DN5-3	0305007-19	Soil	May-22-03 00:00	May-22-03 14:08
SR5-6	0305007-20	Soil	May-22-03 00:00	May-22-03 14:08
SX67-5	0305007-21	Soil	May-22-03 00:00	May-22-03 14:08
SV1-5	0305007-22	Soil	May-22-03 00:00	May-22-03 14:08
SRN 3-4	0305007-23	Soil	May-22-03 00:00	May-22-03 14:08
SX61-4	0305007-24	Soil	May-22-03 00:00	May-22-03 14:08
DN182-4	0305007-25	Soil	May-22-03 00:00	May-22-03 14:08
SX67-4	0305007-26	Soil	May-22-03 00:00	May-22-03 14:08
OP367-3	0305007-27	Soil	May-22-03 00:00	May-22-03 14:08
SX61-6	0305007-28	Soil	May-22-03 00:00	May-22-03 14:08
PHRAGMITES	0305007-29	Soil	May-22-03 00:00	May-22-03 14:08

10

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-6	0305007-30	Soil	May-22-03 00:00	May-22-03 14:08
DN182-3	0305007-31	Soil	May-22-03 00:00	May-22-03 14:08
SRN1-2	0305007-32	Soil	May-22-03 00:00	May-22-03 14:08
SRN5-6	0305007-33	Soil	May-22-03 00:00	May-22-03 14:08
SX61-5	0305007-34	Soil	May-22-03 00:00	May-22-03 14:08
NM6-3	0305007-35	Soil	May-22-03 00:00	May-22-03 14:08
SX67-6	0305007-36	Soil	May-22-03 00:00	May-22-03 14:08
DN5-4	0305007-37	Soil	May-22-03 00:00	May-22-03 14:08
DN5-1	0305007-38	Soil	May-22-03 00:00	May-22-03 14:08
NM6-1	0305007-39	Soil	May-22-03 00:00	May-22-03 14:08
SX61-2	0305007-40	Soil	May-22-03 00:00	May-22-03 14:08

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-3
0305007-01(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2900**			14	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**51**			0.36	"	"	"	"	"
Beryllium	**U**	L		0.18	"	"	"	"	"
Boron	**24**			12	"	"	"	"	"
Cadmium	**5.5**	L		3.6	"	"	"	"	"
Calcium	**18000**			18	"	"	"	"	"
Chromium	**150**			3.6	"	"	"	"	"
Cobalt	**U**			3.6	"	"	"	"	"
Copper	**110**			1.8	"	"	"	"	"
Iron	**71000**			18	"	"	"	"	"
Lead	**920**			18	"	"	"	"	"
Lithium	**U**			8.9	"	"	"	"	"
Magnesium	**8500**			18	"	"	"	"	"
Manganese	**310**			0.89	"	"	"	"	"
Molybdenum	**U**	L		18	"	"	"	"	"
Nickel	**42**			1.8	"	"	"	"	"
Potassium	**U**			360	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**97**			3.6	"	"	"	"	"
Titanium	**140**			0.89	"	"	"	"	"
Vanadium	**21**	K		11	"	"	"	"	"
Zinc	**1000**			8.9	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX61-1
0305007-02(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1500**			14	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**20**			0.35	"	"	"	"	"
Beryllium	**U**	L		0.17	"	"	"	"	"
Boron	**19**			12	"	"	"	"	"
Cadmium	**U**	L		3.5	"	"	"	"	"
Calcium	**22000**			17	"	"	"	"	"
Chromium	**30**			3.5	"	"	"	"	"
Cobalt	**U**			3.5	"	"	"	"	"
Copper	**50**			1.7	"	"	"	"	"
Iron	**26000**			17	"	"	"	"	"
Lead	**410**			17	"	"	"	"	"
Lithium	**U**			8.7	"	"	"	"	"
Magnesium	**11000**			17	"	"	"	"	"
Manganese	**180**			0.87	"	"	"	"	"
Molybdenum	**U**	L		17	"	"	"	"	"
Nickel	**20**			1.7	"	"	"	"	"
Potassium	**U**			350	"	"	"	"	"
Silver	**U**			1.7	"	"	"	"	"
Sodium	**91**			3.5	"	"	"	"	"
Titanium	**94**			0.87	"	"	"	"	"
Vanadium	**12**	K		10	"	"	"	"	"
Zinc	**320**			8.7	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DNS-2
0305007-03(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2200**			15	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**27**			0.38	"	"	"	"	"
Beryllium	**U**	L		0.19	"	"	"	"	"
Boron	**22**			13	"	"	"	"	"
Cadmium	**4.6**	L		3.8	"	"	"	"	"
Calcium	**28000**			19	"	"	"	"	"
Chromium	**130**			3.8	"	"	"	"	"
Cobalt	**U**			3.8	"	"	"	"	"
Copper	**83**			1.9	"	"	"	"	"
Iron	**38000**			19	"	"	"	"	"
Lead	**350**			19	"	"	"	"	"
Lithium	**U**			9.6	"	"	"	"	"
Magnesium	**13000**			19	"	"	"	"	"
Manganese	**340**			0.96	"	"	"	"	"
Molybdenum	**U**	L		19	"	"	"	"	"
Nickel	**47**			1.9	"	"	"	"	"
Potassium	**U**			380	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**100**			3.8	"	"	"	"	"
Titanium	**110**			0.96	"	"	"	"	"
Vanadium	**16**	K		11	"	"	"	"	"
Zinc	**790**			9.6	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

OP367-1
0305007-04(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1900**			11	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**21**			0.29	"	"	"	"	"
Beryllium	**U**	L		0.14	"	"	"	"	"
Boron	**18**			10	"	"	"	"	"
Cadmium	**U**	L		2.9	"	"	"	"	"
Calcium	**23000**			14	"	"	"	"	"
Chromium	**57**			2.9	"	"	"	"	"
Cobalt	**2.9**			2.9	"	"	"	"	"
Copper	**46**			1.4	"	"	"	"	"
Iron	**24000**			14	"	"	"	"	"
Lead	**210**			14	"	"	"	"	"
Lithium	**U**			7.1	"	"	"	"	"
Magnesium	**12000**			14	"	"	"	"	"
Manganese	**200**			0.71	"	"	"	"	"
Molybdenum	**U**	L		14	"	"	"	"	"
Nickel	**23**			1.4	"	"	"	"	"
Potassium	**U**			290	"	"	"	"	"
Silver	**U**			1.4	"	"	"	"	"
Sodium	**85**			2.9	"	"	"	"	"
Titanium	**120**			0.71	"	"	"	"	"
Vanadium	**15**	K		8.6	"	"	"	"	"
Zinc	**420**			7.1	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-2
0305007-05(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1200**			16	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**13**			0.40	"	"	"	"	"
Beryllium	**U**	L		0.20	"	"	"	"	"
Boron	**22**			14	"	"	"	"	"
Cadmium	**U**	L		4.0	"	"	"	"	"
Calcium	**27000**			20	"	"	"	"	"
Chromium	**13**			4.0	"	"	"	"	"
Cobalt	**U**			4.0	"	"	"	"	"
Copper	**19**			2.0	"	"	"	"	"
Iron	**14000**			20	"	"	"	"	"
Lead	**250**			20	"	"	"	"	"
Lithium	**U**			10	"	"	"	"	"
Magnesium	**14000**			20	"	"	"	"	"
Manganese	**150**			1.0	"	"	"	"	"
Molybdenum	**U**			20	"	"	"	"	"
Nickel	**12**			2.0	"	"	"	"	"
Potassium	**U**			400	"	"	"	"	"
Silver	**U**			2.0	"	"	"	"	"
Sodium	**100**			4.0	"	"	"	"	"
Titanium	**91**			1.0	"	"	"	"	"
Vanadium	**12**	K		12	"	"	"	"	"
Zinc	**220**			10	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX61-3
0305007-06(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3200**			13	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**60**			0.32	"	"	"	"	"
Beryllium	**U**	L		0.16	"	"	"	"	"
Boron	**23**			11	"	"	"	"	"
Cadmium	**10**	L		3.2	"	"	"	"	"
Calcium	**12000**			16	"	"	"	"	"
Chromium	**280**			3.2	"	"	"	"	"
Cobalt	**3.6**			3.2	"	"	"	"	"
Copper	**160**			1.6	"	"	"	"	"
Iron	**130000**			80	"	5	"	"	Sep-03-03
Lead	**690**			16	"	1	"	"	Jul-25-03
Lithium	**U**			8.0	"	"	"	"	"
Magnesium	**5200**			16	"	"	"	"	"
Manganese	**460**			0.80	"	"	"	"	"
Molybdenum	**U**			16	"	"	"	"	"
Nickel	**51**			1.6	"	"	"	"	"
Potassium	**U**			320	"	"	"	"	"
Silver	**U**			1.6	"	"	"	"	"
Sodium	**76**			3.2	"	"	"	"	"
Titanium	**170**			0.80	"	"	"	"	"
Vanadium	**26**	K		9.6	"	"	"	"	"
Zinc	**1200**			8.0	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN182-2
0305007-07(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1400**			15	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**16**			0.37	"	"	"	"	"
Beryllium	**U**	L		0.19	"	"	"	"	"
Boron	**20**			13	"	"	"	"	"
Cadmium	**U**	L		3.7	"	"	"	"	"
Calcium	**22000**			19	"	"	"	"	"
Chromium	**33**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**35**			1.9	"	"	"	"	"
Iron	**17000**			19	"	"	"	"	"
Lead	**250**			19	"	"	"	"	"
Lithium	**U**			9.3	"	"	"	"	"
Magnesium	**12000**			19	"	"	"	"	"
Manganese	**160**			0.93	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**17**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**100**			3.7	"	"	"	"	"
Titanium	**100**			0.93	"	"	"	"	"
Vanadium	**12**	K		11	"	"	"	"	"
Zinc	**330**			9.3	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-1
0305007-08(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2100**			15	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**32**			0.37	"	"	"	"	"
Beryllium	**U**	L		0.19	"	"	"	"	"
Boron	**22**			13	"	"	"	"	"
Cadmium	**U**	L		3.7	"	"	"	"	"
Calcium	**20000**			19	"	"	"	"	"
Chromium	**58**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**87**			1.9	"	"	"	"	"
Iron	**38000**			19	"	"	"	"	"
Lead	**470**			19	"	"	"	"	"
Lithium	**U**			9.3	"	"	"	"	"
Magnesium	**9700**			19	"	"	"	"	"
Manganese	**260**			0.93	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**40**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**130**			3.7	"	"	"	"	"
Titanium	**110**			0.93	"	"	"	"	"
Vanadium	**15**	K		11	"	"	"	"	"
Zinc	**460**			9.3	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN182-1
0305007-09(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1500**			15	mg/kg	1	B307012	Jul-22-03	Jul-25-03
Barium	**17**			0.38	"	"	"	"	"
Beryllium	**U**	L		0.19	"	"	"	"	"
Boron	**27**			13	"	"	"	"	"
Cadmium	**U**	L		3.8	"	"	"	"	"
Calcium	**26000**			19	"	"	"	"	"
Chromium	**36**			3.8	"	"	"	"	"
Cobalt	**U**			3.8	"	"	"	"	"
Copper	**29**			1.9	"	"	"	"	"
Iron	**18000**			19	"	"	"	"	"
Lead	**170**			19	"	"	"	"	"
Lithium	**U**			9.6	"	"	"	"	"
Magnesium	**14000**			19	"	"	"	"	"
Manganese	**180**			0.96	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**18**			1.9	"	"	"	"	"
Potassium	**U**			380	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**150**			3.8	"	"	"	"	"
Titanium	**110**			0.96	"	"	"	"	"
Vanadium	**14**	K		12	"	"	"	"	"
Zinc	**360**			9.6	"	"	"	"	Jul-25-03

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-4
0305007-10(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2700**			16	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**49**			0.41	"	"	"	"	"
Beryllium	**0.34**			0.21	"	"	"	"	"
Boron	**U**			14	"	"	"	"	"
Cadmium	**8.1**			4.1	"	"	"	"	"
Calcium	**24000**			21	"	"	"	"	"
Chromium	**140**			4.1	"	"	"	"	"
Cobalt	**4.7**			4.1	"	"	"	"	"
Copper	**140**			2.1	"	"	"	"	"
Iron	**62000**			21	"	"	"	"	"
Lead	**730**	L		21	"	"	"	"	"
Lithium	**U**			10	"	"	"	"	"
Magnesium	**11000**			21	"	"	"	"	"
Manganese	**490**			1.0	"	"	"	"	"
Molybdenum	**U**			21	"	"	"	"	"
Nickel	**57**			2.1	"	"	"	"	"
Potassium	**U**			410	"	"	"	"	"
Silver	**U**			2.1	"	"	"	"	"
Sodium	**110**			4.1	"	"	"	"	"
Titanium	**120**			1.0	"	"	"	"	"
Vanadium	**14**			12	"	"	"	"	"
Zinc	**1200**			10	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-1
0305007-11(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1900**			14	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**25**			0.34	"	"	"	"	"
Beryllium	**0.20**			0.17	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**4.9**			3.4	"	"	"	"	"
Calcium	**61000**			17	"	"	"	"	"
Chromium	**54**			3.4	"	"	"	"	"
Cobalt	**U**			3.4	"	"	"	"	"
Copper	**68**			1.7	"	"	"	"	"
Iron	**38000**			17	"	"	"	"	"
Lead	**390**	L		17	"	"	"	"	"
Lithium	**U**			8.6	"	"	"	"	"
Magnesium	**20000**			17	"	"	"	"	"
Manganese	**340**			0.86	"	"	"	"	"
Molybdenum	**U**			17	"	"	"	"	"
Nickel	**43**			1.7	"	"	"	"	"
Potassium	**U**			340	"	"	"	"	"
Silver	**U**			1.7	"	"	"	"	"
Sodium	**100**			3.4	"	"	"	"	"
Titanium	**95**			0.86	"	"	"	"	"
Vanadium	**11**			10	"	"	"	"	"
Zinc	**590**			8.6	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

OP367-2
0305007-12(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1800**			15	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**25**			0.38	"	"	"	"	"
Beryllium	**U**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**4.6**			3.8	"	"	"	"	"
Calcium	**19000**			19	"	"	"	"	"
Chromium	**85**			3.8	"	"	"	"	"
Cobalt	**4.2**			3.8	"	"	"	"	"
Copper	**64**			1.9	"	"	"	"	"
Iron	**25000**			19	"	"	"	"	"
Lead	**260**	L		19	"	"	"	"	"
Lithium	**U**			9.5	"	"	"	"	"
Magnesium	**10000**			19	"	"	"	"	"
Manganese	**180**			0.95	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**28**			1.9	"	"	"	"	"
Potassium	**U**			380	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**81**			3.8	"	"	"	"	"
Titanium	**110**			0.95	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**470**			9.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

NM6-2
0305007-13(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**4000**			16	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**110**			0.39	"	"	"	"	"
Beryllium	**0.49**			0.19	"	"	"	"	"
Boron	**U**			14	"	"	"	"	"
Cadmium	**9.8**			3.9	"	"	"	"	"
Calcium	**16000**			19	"	"	"	"	"
Chromium	**440**			3.9	"	"	"	"	"
Cobalt	**6.4**			3.9	"	"	"	"	"
Copper	**370**			1.9	"	"	"	"	"
Iron	**94000**			19	"	"	"	"	"
Lead	**970**	L		19	"	"	"	"	"
Lithium	**U**			9.7	"	"	"	"	"
Magnesium	**5800**			19	"	"	"	"	"
Manganese	**710**			0.97	"	"	"	"	"
Molybdenum	**21**	K		19	"	"	"	"	"
Nickel	**99**			1.9	"	"	"	"	"
Potassium	**U**			390	"	"	"	"	"
Silver	**2.7**			1.9	"	"	"	"	"
Sodium	**110**			3.9	"	"	"	"	"
Titanium	**150**			0.97	"	"	"	"	"
Vanadium	**26**			12	"	"	"	"	"
Zinc	**3300**			49	"	5	"	"	Sep-03-03

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-3
0305007-14(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2000**			15	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**32**			0.37	"	"	"	"	"
Beryllium	**0.23**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**24000**			19	"	"	"	"	"
Chromium	**41**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**67**			1.9	"	"	"	"	"
Iron	**42000**			19	"	"	"	"	"
Lead	**830**	L		19	"	"	"	"	"
Lithium	**U**			9.4	"	"	"	"	"
Magnesium	**12000**			19	"	"	"	"	"
Manganese	**340**			0.94	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**28**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**120**			3.7	"	"	"	"	"
Titanium	**110**			0.94	"	"	"	"	"
Vanadium	**11**			11	"	"	"	"	"
Zinc	**680**			9.4	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-2
0305007-15(Soil)
Sampled: May-21-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1600**			15	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**14**			0.37	"	"	"	"	"
Beryllium	**U**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**22000**			19	"	"	"	"	"
Chromium	**22**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**29**			1.9	"	"	"	"	"
Iron	**18000**			19	"	"	"	"	"
Lead	**310**	L		19	"	"	"	"	"
Lithium	**U**			9.3	"	"	"	"	"
Magnesium	**12000**			19	"	"	"	"	"
Manganese	**130**			0.93	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**15**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**86**			3.7	"	"	"	"	"
Titanium	**92**			0.93	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**220**			9.3	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SR3-4
0305007-16(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1500**			15	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**17**			0.37	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**17000**			18	"	"	"	"	"
Chromium	**23**			3.7	"	"	"	"	"
Cobalt	**3.9**			3.7	"	"	"	"	"
Copper	**26**			1.8	"	"	"	"	"
Iron	**19000**			18	"	"	"	"	"
Lead	**170**	L		18	"	"	"	"	"
Lithium	**U**			9.2	"	"	"	"	"
Magnesium	**8800**			18	"	"	"	"	"
Manganese	**140**			0.92	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**18**			1.8	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**70**			3.7	"	"	"	"	"
Titanium	**77**			0.92	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**250**			9.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SR1-2
0305007-17(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3800**			15	mg/kg	1	B307012	Aug-06-03	Aug-19-03
Barium	**81**			0.36	"	"	"	"	"
Beryllium	**0.46**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**22**			3.6	"	"	"	"	"
Calcium	**14000**			18	"	"	"	"	"
Chromium	**370**			3.6	"	"	"	"	"
Cobalt	**5.0**			3.6	"	"	"	"	"
Copper	**320**			1.8	"	"	"	"	"
Iron	**77000**			18	"	"	"	"	"
Lead	**730**	L		18	"	"	"	"	"
Lithium	**U**			9.1	"	"	"	"	"
Magnesium	**6200**			18	"	"	"	"	"
Manganese	**440**			0.91	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**94**			1.8	"	"	"	"	"
Potassium	**U**			360	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**110**			3.6	"	"	"	"	"
Titanium	**140**			0.91	"	"	"	"	"
Vanadium	**17**			11	"	"	"	"	"
Zinc	**2500**			45	"	5	"	"	Sep-03-03

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

OP367-4
0305007-18(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2000**			15	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**26**			0.37	"	"	"	"	"
Beryllium	**0.23**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**25000**			19	"	"	"	"	"
Chromium	**73**			3.7	"	"	"	"	"
Cobalt	**7.3**			3.7	"	"	"	"	"
Copper	**74**			1.9	"	"	"	"	"
Iron	**42000**			19	"	"	"	"	"
Lead	**360**			19	"	"	"	"	"
Lithium	**U**			9.3	"	"	"	"	"
Magnesium	**12000**			19	"	"	"	"	"
Manganese	**310**			0.93	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**51**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**90**			3.7	"	"	"	"	"
Titanium	**110**			0.93	"	"	"	"	"
Vanadium	**13**			11	"	"	"	"	"
Zinc	**860**			9.3	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN5-3
0305007-19(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1600**			14	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**18**			0.35	"	"	"	"	"
Beryllium	**U**			0.17	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**U**			3.5	"	"	"	"	"
Calcium	**34000**			17	"	"	"	"	"
Chromium	**30**			3.5	"	"	"	"	"
Cobalt	**U**			3.5	"	"	"	"	"
Copper	**39**			1.7	"	"	"	"	"
Iron	**21000**			17	"	"	"	"	"
Lead	**220**			17	"	"	"	"	"
Lithium	**U**			8.7	"	"	"	"	"
Magnesium	**18000**			17	"	"	"	"	"
Manganese	**280**			0.87	"	"	"	"	"
Molybdenum	**U**			17	"	"	"	"	"
Nickel	**26**			1.7	"	"	"	"	"
Potassium	**U**			350	"	"	"	"	"
Silver	**U**			1.7	"	"	"	"	"
Sodium	**96**			3.5	"	"	"	"	"
Titanium	**130**			0.87	"	"	"	"	"
Vanadium	**11**			10	"	"	"	"	"
Zinc	**410**			8.7	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SR5-6
0305007-20(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2700**			13	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**95**			0.32	"	"	"	"	"
Beryllium	**0.31**			0.16	"	"	"	"	"
Boron	**U**			11	"	"	"	"	"
Cadmium	**8.2**			3.2	"	"	"	"	"
Calcium	**18000**			16	"	"	"	"	"
Chromium	**250**			3.2	"	"	"	"	"
Cobalt	**6.3**			3.2	"	"	"	"	"
Copper	**450**			1.6	"	"	"	"	"
Iron	**77000**			16	"	"	"	"	"
Lead	**740**			16	"	"	"	"	"
Lithium	**U**			8.0	"	"	"	"	"
Magnesium	**8200**			16	"	"	"	"	"
Manganese	**400**			0.80	"	"	"	"	"
Molybdenum	**29**	K		16	"	"	"	"	"
Nickel	**86**			1.6	"	"	"	"	"
Potassium	**U**			320	"	"	"	"	"
Silver	**U**			1.6	"	"	"	"	"
Sodium	**97**			3.2	"	"	"	"	"
Titanium	**140**			0.80	"	"	"	"	"
Vanadium	**19**			9.6	"	"	"	"	"
Zinc	**1200**			8.0	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-5
0305007-21(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1200**			16	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**13**			0.40	"	"	"	"	"
Beryllium	**U**			0.20	"	"	"	"	"
Boron	**U**			14	"	"	"	"	"
Cadmium	**U**			4.0	"	"	"	"	"
Calcium	**29000**			20	"	"	"	"	"
Chromium	**16**			4.0	"	"	"	"	"
Cobalt	**U**			4.0	"	"	"	"	"
Copper	**25**			2.0	"	"	"	"	"
Iron	**16000**			20	"	"	"	"	"
Lead	**200**			20	"	"	"	"	"
Lithium	**U**			9.9	"	"	"	"	"
Magnesium	**15000**			20	"	"	"	"	"
Manganese	**160**			0.99	"	"	"	"	"
Molybdenum	**U**			20	"	"	"	"	"
Nickel	**13**			2.0	"	"	"	"	"
Potassium	**U**			400	"	"	"	"	"
Silver	**U**			2.0	"	"	"	"	"
Sodium	**86**			4.0	"	"	"	"	"
Titanium	**110**			0.99	"	"	"	"	"
Vanadium	**U**			12	"	"	"	"	"
Zinc	**220**			9.9	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-5
0305007-22(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3100**			15	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**63**			0.37	"	"	"	"	"
Beryllium	**0.40**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**29**			3.7	"	"	"	"	"
Calcium	**17000**			19	"	"	"	"	"
Chromium	**310**			3.7	"	"	"	"	"
Cobalt	**5.9**			3.7	"	"	"	"	"
Copper	**260**			1.9	"	"	"	"	"
Iron	**72000**			19	"	"	"	"	"
Lead	**920**			19	"	"	"	"	"
Lithium	**U**			9.3	"	"	"	"	"
Magnesium	**7700**			19	"	"	"	"	"
Manganese	**410**			0.93	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**99**			1.9	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**94**			3.7	"	"	"	"	"
Titanium	**150**			0.93	"	"	"	"	"
Vanadium	**19**			11	"	"	"	"	"
Zinc	**2400**			46	"	5	"	"	Sep-03-03

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SRN 3-4
0305007-23(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2200**			13	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**40**			0.33	"	"	"	"	"
Beryllium	**0.33**			0.17	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**3.4**			3.3	"	"	"	"	"
Calcium	**16000**			17	"	"	"	"	"
Chromium	**52**			3.3	"	"	"	"	"
Cobalt	**4.0**			3.3	"	"	"	"	"
Copper	**110**			1.7	"	"	"	"	"
Iron	**53000**			17	"	"	"	"	"
Lead	**740**			17	"	"	"	"	Sep-03-03
Lithium	**U**			8.3	"	"	"	"	Aug-19-03
Magnesium	**6500**			17	"	"	"	"	"
Manganese	**410**			0.83	"	"	"	"	"
Molybdenum	**28**	K		17	"	"	"	"	"
Nickel	**51**			1.7	"	"	"	"	"
Potassium	**U**			330	"	"	"	"	"
Silver	**U**			1.7	"	"	"	"	"
Sodium	**92**			3.3	"	"	"	"	"
Titanium	**110**			0.83	"	"	"	"	"
Vanadium	**15**			9.9	"	"	"	"	"
Zinc	**780**			8.3	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project:Indiana Harbor Project Number:[none] Project Manager:Betty Lavis	**Reported:** Sep-08-03 10:29

SX61-4
0305007-24(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1100**			15	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**29**			0.37	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**32000**			18	"	"	"	"	"
Chromium	**20**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**49**			1.8	"	"	"	"	"
Iron	**31000**			18	"	"	"	"	"
Lead	**640**			18	"	"	"	"	"
Lithium	**U**			9.2	"	"	"	"	"
Magnesium	**16000**			18	"	"	"	"	"
Manganese	**190**			0.92	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**22**			1.8	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**73**			3.7	"	"	"	"	"
Titanium	**65**			0.92	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**590**			9.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN182-4
0305007-25(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**940**			14	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**6.9**			0.36	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.6	"	"	"	"	"
Calcium	**32000**			18	"	"	"	"	"
Chromium	**8.5**			3.6	"	"	"	"	"
Cobalt	**3.9**			3.6	"	"	"	"	"
Copper	**7.5**			1.8	"	"	"	"	"
Iron	**6600**			18	"	"	"	"	"
Lead	**39**			18	"	"	"	"	"
Lithium	**U**			9.0	"	"	"	"	"
Magnesium	**16000**			18	"	"	"	"	"
Manganese	**130**			0.90	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**5.7**			1.8	"	"	"	"	"
Potassium	**U**			360	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**93**			3.6	"	"	"	"	"
Titanium	**87**			0.90	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**96**			9.0	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-4
0305007-26(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2600**			13	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**37**			0.33	"	"	"	"	"
Beryllium	**0.32**			0.16	"	"	"	"	"
Boron	**U**			11	"	"	"	"	"
Cadmium	**6.4**			3.3	"	"	"	"	"
Calcium	**26000**			16	"	"	"	"	"
Chromium	**100**			3.3	"	"	"	"	"
Cobalt	**4.3**			3.3	"	"	"	"	"
Copper	**89**			1.6	"	"	"	"	"
Iron	**61000**			16	"	"	"	"	"
Lead	**540**			16	"	"	"	"	"
Lithium	**U**			8.2	"	"	"	"	"
Magnesium	**12000**			16	"	"	"	"	"
Manganese	**480**			0.82	"	"	"	"	"
Molybdenum	**U**			16	"	"	"	"	"
Nickel	**43**			1.6	"	"	"	"	"
Potassium	**U**			330	"	"	"	"	"
Silver	**U**			1.6	"	"	"	"	"
Sodium	**97**			3.3	"	"	"	"	"
Titanium	**150**			0.82	"	"	"	"	"
Vanadium	**14**			9.8	"	"	"	"	"
Zinc	**910**			8.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

OP367-3
0305007-27(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2600**			12	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**50**			0.30	"	"	"	"	"
Beryllium	**0.32**			0.15	"	"	"	"	"
Boron	**U**			11	"	"	"	"	"
Cadmium	**10**			3.0	"	"	"	"	"
Calcium	**19000**			15	"	"	"	"	"
Chromium	**150**			3.0	"	"	"	"	"
Cobalt	**3.6**			3.0	"	"	"	"	"
Copper	**130**			1.5	"	"	"	"	"
Iron	**53000**			15	"	"	"	"	"
Lead	**540**			15	"	"	"	"	"
Lithium	**U**			7.5	"	"	"	"	"
Magnesium	**9300**			15	"	"	"	"	"
Manganese	**290**			0.75	"	"	"	"	"
Molybdenum	**U**			15	"	"	"	"	"
Nickel	**52**			1.5	"	"	"	"	"
Potassium	**U**			300	"	"	"	"	"
Silver	**U**			1.5	"	"	"	"	"
Sodium	**88**			3.0	"	"	"	"	"
Titanium	**150**			0.75	"	"	"	"	"
Vanadium	**15**			9.0	"	"	"	"	"
Zinc	**990**			7.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX61-6
0305007-28(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2200**			14	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**33**			0.35	"	"	"	"	"
Beryllium	**0.25**			0.17	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**10**			3.5	"	"	"	"	"
Calcium	**20000**			17	"	"	"	"	"
Chromium	**120**			3.5	"	"	"	"	"
Cobalt	**4.5**			3.5	"	"	"	"	"
Copper	**110**			1.7	"	"	"	"	"
Iron	**49000**			17	"	"	"	"	"
Lead	**410**			17	"	"	"	"	"
Lithium	**U**			8.7	"	"	"	"	"
Magnesium	**8900**			17	"	"	"	"	"
Manganese	**260**			0.87	"	"	"	"	"
Molybdenum	**U**			17	"	"	"	"	"
Nickel	**44**			1.7	"	"	"	"	"
Potassium	**U**			350	"	"	"	"	"
Silver	**U**			1.7	"	"	"	"	"
Sodium	**91**			3.5	"	"	"	"	"
Titanium	**130**			0.87	"	"	"	"	"
Vanadium	**13**			10	"	"	"	"	"
Zinc	**830**			8.7	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

PHRAGMITES
0305007-29(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**2600**			15	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**27**			0.37	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**33000**			18	"	"	"	"	"
Chromium	**40**			3.7	"	"	"	"	"
Cobalt	**4.9**			3.7	"	"	"	"	"
Copper	**31**			1.8	"	"	"	"	"
Iron	**21000**			18	"	"	"	"	"
Lead	**170**			18	"	"	"	"	"
Lithium	**U**			9.2	"	"	"	"	"
Magnesium	**16000**			18	"	"	"	"	"
Manganese	**200**			0.92	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**24**			1.8	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**190**			3.7	"	"	"	"	"
Titanium	**170**			0.92	"	"	"	"	"
Vanadium	**13**			11	"	"	"	"	"
Zinc	**310**			9.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SV1-6
0305007-30(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1700**			14	mg/kg	1	B307012	Aug-11-03	Aug-19-03
Barium	**20**			0.36	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**5.1**			3.6	"	"	"	"	"
Calcium	**28000**			18	"	"	"	"	"
Chromium	**67**			3.6	"	"	"	"	"
Cobalt	**U**			3.6	"	"	"	"	"
Copper	**50**			1.8	"	"	"	"	"
Iron	**25000**			18	"	"	"	"	"
Lead	**240**			18	"	"	"	"	"
Lithium	**U**			8.9	"	"	"	"	"
Magnesium	**13000**			18	"	"	"	"	"
Manganese	**240**			0.89	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**24**			1.8	"	"	"	"	"
Potassium	**U**			360	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**100**			3.6	"	"	"	"	"
Titanium	**110**			0.89	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**520**			8.9	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN182-3
0305007-31(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3100**			15	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**64**			0.37	"	"	"	"	"
Beryllium	**0.42**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**9.2**			3.7	"	"	"	"	"
Calcium	**20000**			18	"	"	"	"	"
Chromium	**190**			3.7	"	"	"	"	"
Cobalt	**4.2**			3.7	"	"	"	"	"
Copper	**160**			1.8	"	"	"	"	"
Iron	**75000**			18	"	"	"	"	"
Lead	**600**			18	"	"	"	"	"
Lithium	**U**			9.2	"	"	"	"	"
Magnesium	**8200**			18	"	"	"	"	"
Manganese	**520**			0.92	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**54**			1.8	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**82**			3.7	"	"	"	"	"
Titanium	**140**			0.92	"	"	"	"	"
Vanadium	**17**			11	"	"	"	"	"
Zinc	**1300**			9.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SRN1-2
0305007-32(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**3600**			13	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**110**			0.33	"	"	"	"	"
Beryllium	**0.43**			0.16	"	"	"	"	"
Boron	**U**			11	"	"	"	"	"
Cadmium	**8.5**			3.3	"	"	"	"	"
Calcium	**4900**			16	"	"	"	"	"
Chromium	**320**			3.3	"	"	"	"	"
Cobalt	**3.3**			3.3	"	"	"	"	"
Copper	**230**			1.6	"	"	"	"	"
Iron	**77000**			16	"	"	"	"	"
Lead	**640**			16	"	"	"	"	"
Lithium	**U**			8.2	"	"	"	"	"
Magnesium	**2100**			16	"	"	"	"	"
Manganese	**230**			0.82	"	"	"	"	"
Molybdenum	**21**	K		16	"	"	"	"	"
Nickel	**60**			1.6	"	"	"	"	"
Potassium	**U**			330	"	"	"	"	"
Silver	**U**			1.6	"	"	"	"	"
Sodium	**85**			3.3	"	"	"	"	"
Titanium	**150**			0.82	"	"	"	"	"
Vanadium	**20**			9.8	"	"	"	"	"
Zinc	**1100**			8.2	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SRN5-6
0305007-33(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1300**			15	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**41**			0.38	"	"	"	"	"
Beryllium	**U**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.8	"	"	"	"	"
Calcium	**23000**			19	"	"	"	"	"
Chromium	**25**			3.8	"	"	"	"	"
Cobalt	**5.4**			3.8	"	"	"	"	"
Copper	**61**			1.9	"	"	"	"	"
Iron	**45000**			19	"	"	"	"	"
Lead	**670**			19	"	"	"	"	"
Lithium	**U**			9.5	"	"	"	"	"
Magnesium	**11000**			19	"	"	"	"	"
Manganese	**240**			0.95	"	"	"	"	"
Molybdenum	**25**	K		19	"	"	"	"	"
Nickel	**75**			1.9	"	"	"	"	"
Potassium	**U**			380	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**86**			3.8	"	"	"	"	"
Titanium	**97**			0.95	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**700**			9.5	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX61-5
0305007-34(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**870**			15	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**9.3**			0.39	"	"	"	"	"
Beryllium	**U**			0.19	"	"	"	"	"
Boron	**U**			14	"	"	"	"	"
Cadmium	**U**			3.9	"	"	"	"	"
Calcium	**120000**			97	"	5	"	"	Sep-03-03
Chromium	**15**			3.9	"	1	"	"	Aug-19-03
Cobalt	**4.2**			3.9	"	"	"	"	"
Copper	**20**			1.9	"	"	"	"	"
Iron	**15000**			19	"	"	"	"	"
Lead	**130**			19	"	"	"	"	"
Lithium	**U**			9.7	"	"	"	"	"
Magnesium	**52000**			19	"	"	"	"	"
Manganese	**560**			0.97	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**15**			1.9	"	"	"	"	"
Potassium	**U**			390	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**150**			3.9	"	"	"	"	"
Titanium	**72**			0.97	"	"	"	"	"
Vanadium	**U**			12	"	"	"	"	"
Zinc	**270**			9.7	"	"	"	"	Sep-03-03

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

NM6-3
0305007-35(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**630**			14	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**4.4**			0.35	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**U**			3.5	"	"	"	"	"
Calcium	**20000**			18	"	"	"	"	"
Chromium	**4.0**			3.5	"	"	"	"	"
Cobalt	**U**			3.5	"	"	"	"	"
Copper	**2.1**			1.8	"	"	"	"	"
Iron	**4000**			18	"	"	"	"	"
Lead	**U**			18	"	"	"	"	"
Lithium	**U**			8.8	"	"	"	"	"
Magnesium	**10000**			18	"	"	"	"	"
Manganese	**100**			0.88	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**3.4**			1.8	"	"	"	"	"
Potassium	**U**			350	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**76**			3.5	"	"	"	"	"
Titanium	**53**			0.88	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**34**			8.8	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

SX67-6
0305007-36(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1500**			14	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**25**			0.36	"	"	"	"	"
Beryllium	**0.18**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.6	"	"	"	"	"
Calcium	**26000**			18	"	"	"	"	"
Chromium	**48**			3.6	"	"	"	"	"
Cobalt	**4.2**			3.6	"	"	"	"	"
Copper	**69**			1.8	"	"	"	"	"
Iron	**29000**			18	"	"	"	"	"
Lead	**530**			18	"	"	"	"	"
Lithium	**U**			9.0	"	"	"	"	"
Magnesium	**13000**			18	"	"	"	"	"
Manganese	**230**			0.90	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**32**			1.8	"	"	"	"	"
Potassium	**U**			360	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**85**			3.6	"	"	"	"	"
Titanium	**99**			0.90	"	"	"	"	"
Vanadium	**11**			11	"	"	"	"	"
Zinc	**570**			9.0	"	"	"	"	"

Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN5-4
0305007-37(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1600**			15	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**12**			0.38	"	"	"	"	"
Beryllium	**U**			0.19	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.8	"	"	"	"	"
Calcium	**25000**			19	"	"	"	"	"
Chromium	**20**			3.8	"	"	"	"	"
Cobalt	**4.0**			3.8	"	"	"	"	"
Copper	**29**			1.9	"	"	"	"	"
Iron	**18000**			19	"	"	"	"	"
Lead	**180**			19	"	"	"	"	"
Lithium	**U**			9.5	"	"	"	"	"
Magnesium	**13000**			19	"	"	"	"	"
Manganese	**180**			0.95	"	"	"	"	"
Molybdenum	**U**			19	"	"	"	"	"
Nickel	**17**			1.9	"	"	"	"	"
Potassium	**U**			380	"	"	"	"	"
Silver	**U**			1.9	"	"	"	"	"
Sodium	**71**			3.8	"	"	"	"	"
Titanium	**90**			0.95	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**330**			9.5	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

DN5-1
0305007-38(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1400**			13	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**21**			0.33	"	"	"	"	"
Beryllium	**0.16**			0.16	"	"	"	"	"
Boron	**U**			12	"	"	"	"	"
Cadmium	**U**			3.3	"	"	"	"	"
Calcium	**24000**			16	"	"	"	"	"
Chromium	**56**			3.3	"	"	"	"	"
Cobalt	**5.3**			3.3	"	"	"	"	"
Copper	**51**			1.6	"	"	"	"	"
Iron	**24000**			16	"	"	"	"	"
Lead	**270**			16	"	"	"	"	"
Lithium	**U**			8.2	"	"	"	"	"
Magnesium	**12000**			16	"	"	"	"	"
Manganese	**210**			0.82	"	"	"	"	"
Molybdenum	**U**			16	"	"	"	"	"
Nickel	**34**			1.6	"	"	"	"	"
Potassium	**U**			330	"	"	"	"	"
Silver	**U**			1.6	"	"	"	"	"
Sodium	**76**			3.3	"	"	"	"	"
Titanium	**87**			0.82	"	"	"	"	"
Vanadium	**U**			9.9	"	"	"	"	"
Zinc	**420**			8.2	"	"	"	"	"

KS
Kathleen Swan, Analyst

[redacted]

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	Reported:
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

NM6-1
0305007-39(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	1500			1.5	mg/kg	1	B307012	Aug-13-03	Aug-14-03
Barium	18			0.75					
Beryllium	U			0.37					
Boron	U			3.7					
Cadmium	U			0.75					
Calcium	18000			37					
Chromium	35			0.75					
Cobalt	3.9			0.75					
Copper	37			1.5					
Iron	21000			37					
Lead	170			1.5					
Lithium	7			3.7					
Magnesium	[illegible]			37					
Manganese	[illegible]			0.75					
Molybdenum				1.5					
Nickel	23			1.5					
Potassium									
Silver									
Sodium									
Titanium									
Vanadium									
Zinc	[illegible]								

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project:Indiana Harbor Project Number:[none] Project Manager:Betty Lavis	**Reported:** Sep-08-03 10:29

SX61-2
0305007-40(Soil)
Sampled: May-22-03 00:00
Received: May-22-03 14:08

Metals by ICP

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Aluminum	**1100**			15	mg/kg	1	B307012	Aug-13-03	Aug-19-03
Barium	**5.1**			0.37	"	"	"	"	"
Beryllium	**U**			0.18	"	"	"	"	"
Boron	**U**			13	"	"	"	"	"
Cadmium	**U**			3.7	"	"	"	"	"
Calcium	**23000**			18	"	"	"	"	"
Chromium	**8.0**			3.7	"	"	"	"	"
Cobalt	**U**			3.7	"	"	"	"	"
Copper	**3.9**			1.8	"	"	"	"	"
Iron	**5900**			18	"	"	"	"	"
Lead	**25**			18	"	"	"	"	"
Lithium	**U**			9.1	"	"	"	"	"
Magnesium	**11000**			18	"	"	"	"	"
Manganese	**110**			0.91	"	"	"	"	"
Molybdenum	**U**			18	"	"	"	"	"
Nickel	**3.7**			1.8	"	"	"	"	"
Potassium	**U**			370	"	"	"	"	"
Silver	**U**			1.8	"	"	"	"	"
Sodium	**84**			3.7	"	"	"	"	"
Titanium	**73**			0.91	"	"	"	"	"
Vanadium	**U**			11	"	"	"	"	"
Zinc	**61**			9.1	"	"	"	"	"

KS
Kathleen Swan, Analyst

Environmental Protection Agency Region 5
Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project:Indiana Harbor	
77 West Jackson Boulevard	Project Number:[none]	**Reported:**
Chicago IL, 60604	Project Manager:Betty Lavis	Sep-08-03 10:29

Notes and Definitions

K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
U	Not Detected
NR	Not Reported

Kathleen Swan, Analyst

Sample ID	Date	Time	Int (Corr)
Calib Blank 1	07/25/2003	10:36:08 AM	176968
Cal 1	07/25/2003	10:39:57 AM	178427
Cal 2	07/25/2003	10:44:13 AM	178127
Cal 3	07/25/2003	10:47:53 AM	175883
Cal 4A+B	07/25/2003	10:51:34 AM	180775
Cal 4C	07/25/2003	10:55:17 AM	178815
Cal 5	07/25/2003	10:59:01 AM	179401
Hi Cal	07/25/2003	11:02:48 AM	167709
BLANK	07/25/2003	11:24:41 AM	173966
LCM1	07/25/2003	11:28:25 AM	176097
LCM2	07/25/2003	11:32:12 AM	176703
Hi AQC	07/25/2003	11:35:58 AM	173418
Blank 2	07/25/2003	11:39:53 AM	179745
RLC	07/25/2003	11:43:11 AM	176873
B307012-BLK1	07/25/2003	11:46:54 AM	177303
wash	07/25/2003	11:50:39 AM	181420
0305007-01	07/25/2003	11:54:26 AM	174715
0305007-02	07/25/2003	11:58:16 AM	176834
0305007-03	07/25/2003	12:02:06 PM	173145
0305007-04	07/25/2003	12:05:59 PM	171787
B307012-DUP1	07/25/2003	12:09:53 PM	174905
B307012-MS1	07/25/2003	12:13:49 PM	182987
B307012-MS5	07/25/2003	12:17:38 PM	172920
Blank 2	07/25/2003	12:21:31 PM	291388 — MT
BLANK	07/25/2003	12:25:19 PM	172273
LCM1	07/25/2003	12:29:32 PM	175272
LCM2	07/25/2003	12:33:35 PM	174512
Hi AQC	07/25/2003	12:38:04 PM	172947
Blank 2	07/25/2003	12:42:15 PM	319436 — MT
0305007-05	07/25/2003	12:46:25 PM	172494
0305007-06	07/25/2003	12:50:16 PM	170703
0305007-07	07/25/2003	12:54:57 PM	173726
0305007-08	07/25/2003	12:59:05 PM	171324
0305007-09	07/25/2003	01:03:13 PM	172020
B307012-DUP2	07/25/2003	01:07:52 PM	171344
B307012-MS2	07/25/2003	01:12:05 PM	185159
B307012-MS6	07/25/2003	01:16:18 PM	171416
AsTi	07/25/2003	01:20:58 PM	173117
AlFe	07/25/2003	01:25:07 PM	172321
BLANK	07/25/2003	01:29:17 PM	171593
LCM1	07/25/2003	01:33:47 PM	171052
LCM2	07/25/2003	01:37:51 PM	171092
Hi AQC	07/25/2003	01:41:38 PM	162705

Instrument Blank First

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.000	0.003		mg/L
11:26 AM	Al 308.215	0.058	0.06		mg/L
	B 249.677	-0.01	0.02		mg/L
	Ba 455.403	0.0004	0.001		mg/L
	Be 313.042	-0.0017	0.0004	out	mg/L
	Ca 315.887	0.04	0.09		mg/L
	Cd 228.802	-0.009	0.006	out	mg/L
	Co 228.616	-0.006	0.01		mg/L
	Cr 283.563	-0.001	0.006		mg/L
	Cu 324.752	-0.008	0.005	out	mg/L
	Fe 273.955	0.01	0.04		mg/L
	K 766.490	0.1	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	0.01	0.04		mg/L
	Mn 257.610	0.0005	0.001		mg/L
	Mo 204.597	-0.04	0.03	out	mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	0.002	0.02		mg/L
	Pb 220.353	-0.024	0.07		mg/L
	Sn 283.998	0.02	0.02		mg/L
	Ti 336.121	-0.000	0.002		mg/L
	V 310.289	0.03	0.02	out	mg/L
	Zn 213.857	0.01	0.09		mg/L

19
080503

Instrument QC First

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.247	0.250	99%		mg/L	
11:30 AM	Al 308.215	1.078	1.000	108%		mg/L	
	B 249.677	0.992	1.000	99%		mg/L	
	Ba 455.403	1.020	1.000	102%		mg/L	
	Be 313.042	1.024	1.000	102%		mg/L	
	Ca 315.887	1.103	1.000	110%	out	mg/L	
	Cd 228.802	0.847	1.000	85%		mg/L	out
	Co 228.616	1.039	1.000	104%		mg/L	
	Cr 283.563	1.005	1.000	101%		mg/L	
	Cu 324.752	1.020	1.000	102%		mg/L	
	Fe 273.955	1.139	1.000	114%	out	mg/L	
	K 766.490	4.918	5.000	98%		mg/L	
	Li 670.784	1.015	1.000	101%		mg/L	
	Mg 279.077	1.039	1.000	104%		mg/L	
	Mn 257.610	1.019	1.000	102%		mg/L	
	Na 589.592	1.038	1.000	104%		mg/L	
	Ni 231.604	1.024	1.000	102%		mg/L	
	Pb 220.353	1.984	2.000	99%		mg/L	
	V 310.230	0.992	1.000	99%		mg/L	
	Zn 213.857	1.031	1.000	103%		mg/L	
LCM2	Mo 204.597	1.003	1.000	100%		mg/L	
	Sn 283.998	2.298	5.000	46%		mg/L	out
	Ti 336.121	1.006	1.000	101%		mg/L	
Hi AQC	Al 308.215	100.222	100.000	100%		mg/L	
	Ca 315.887	106.848	100.000	107%		mg/L	
	Fe 273.955	107.137	100.000	107%		mg/L	
	K 766.490	97.594	100.000	98%		mg/L	
	Mg 279.077	61.170	60.000	102%		mg/L	
	Na 589.592	99.341	100.000	99%		mg/L	

KG
080503

Instrument Blank Second

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.000	0.003		mg/L
12:27 PM	Al 308.215	0.044	0.06		mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.0006	0.001		mg/L
	Be 313.042	-0.0016	0.0004	out	mg/L
	Ca 315.887	0.04	0.09		mg/L
	Cd 228.802	-0.002	0.006		mg/L
	Co 228.616	-0.003	0.01		mg/L
	Cr 283.563	-0.002	0.006		mg/L
	Cu 324.752	0.013	0.005	out	mg/L
	Fe 273.955	0.02	0.04		mg/L
	K 766.490	0.1	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	0.00	0.04		mg/L
	Mn 257.610	0.0016	0.001	out	mg/L
	Mo 204.597	-0.03	0.03		mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	0.002	0.02		mg/L
	Pb 220.353	0.018	0.07		mg/L
	Sn 283.998	0.03	0.02	out	mg/L
	Ti 336.121	-0.000	0.002		mg/L
	V 310.289	0.03	0.02	out	mg/L
	Zn 213.857	0.03	0.09		mg/L

KJ
08 05 03

Instrument QC Second

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.246	0.250	98%		mg/L	
12:31 PM	Al 308.215	1.069	1.000	107%		mg/L	
	B 249.677	0.985	1.000	99%		mg/L	
	Ba 455.403	1.032	1.000	103%		mg/L	
	Be 313.042	1.019	1.000	102%		mg/L	
	Ca 315.887	1.103	1.000	110%	out	mg/L	
	Cd 228.802	0.851	1.000	85%		mg/L	out
	Co 228.616	1.043	1.000	104%		mg/L	
	Cr 283.563	1.004	1.000	100%		mg/L	
	Cu 324.752	1.033	1.000	103%		mg/L	
	Fe 273.955	1.133	1.000	113%	out	mg/L	
	K 766.490	4.903	5.000	98%		mg/L	
	Li 670.784	1.024	1.000	102%		mg/L	
	Mg 279.077	1.039	1.000	104%		mg/L	
	Mn 257.610	1.022	1.000	102%		mg/L	
	Na 589.592	1.038	1.000	104%		mg/L	
	Ni 231.604	1.017	1.000	102%		mg/L	
	Pb 220.353	2.014	2.000	101%		mg/L	
	V 310.230	0.995	1.000	100%		mg/L	
	Zn 213.857	1.040	1.000	104%		mg/L	
LCM2	Mo 204.597	0.981	1.000	98%		mg/L	
	Sn 283.998	2.307	5.000	46%		mg/L	out
	Ti 336.121	1.007	1.000	101%		mg/L	
Hi AQC	Al 308.215	99.656	100.000	100%		mg/L	
	Ca 315.887	106.291	100.000	106%		mg/L	
	Fe 273.955	106.500	100.000	106%		mg/L	
	K 766.490	98.355	100.000	98%		mg/L	
	Mg 279.077	60.780	60.000	101%		mg/L	
	Na 589.592	100.405	100.000	100%		mg/L	

KJ
080503

Instrument Blank Third

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.001	0.003		mg/L
01:31 PM	Al 308.215	0.088	0.06	out	mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.0005	0.001		mg/L
	Be 313.042	-0.0015	0.0004	out	mg/L
	Ca 315.887	0.03	0.09		mg/L
	Cd 228.802	-0.007	0.006	out	mg/L
	Co 228.616	-0.003	0.01		mg/L
	Cr 283.563	-0.001	0.006		mg/L
	Cu 324.752	-0.004	0.005		mg/L
	Fe 273.955	0.11	0.04	out	mg/L
	K 766.490	-0.0	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	-0.01	0.04		mg/L
	Mn 257.610	0.0009	0.001		mg/L
	Mo 204.597	-0.03	0.03		mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	-0.002	0.02		mg/L
	Pb 220.353	0.008	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	0.003	0.002		mg/L
	V 310.289	0.02	0.02	out	mg/L
	Zn 213.857	0.03	0.09		mg/L

IG
080503

Instrument QC Third

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.245	0.250	98%		mg/L	
01:35 PM	Al 308.215	1.073	1.000	107%		mg/L	
	B 249.677	0.979	1.000	98%		mg/L	
	Ba 455.403	1.045	1.000	104%		mg/L	
	Be 313.042	1.018	1.000	102%		mg/L	
	Ca 315.887	1.107	1.000	111%	out	mg/L	
	Cd 228.802	0.860	1.000	86%		mg/L	out
	Co 228.616	1.038	1.000	104%		mg/L	
	Cr 283.563	1.006	1.000	101%		mg/L	
	Cu 324.752	1.029	1.000	103%		mg/L	
	Fe 273.955	1.191	1.000	119%	out	mg/L	
	K 766.490	4.930	5.000	99%		mg/L	
	Li 670.784	1.032	1.000	103%		mg/L	
	Mg 279.077	1.034	1.000	103%		mg/L	
	Mn 257.610	1.024	1.000	102%		mg/L	
	Na 589.592	1.040	1.000	104%		mg/L	
	Ni 231.604	1.030	1.000	103%		mg/L	
	Pb 220.353	1.973	2.000	99%		mg/L	
	V 310.230	0.992	1.000	99%		mg/L	
	Zn 213.857	1.034	1.000	103%		mg/L	
LCM2	Mo 204.597	0.954	1.000	95%		mg/L	
	Sn 283.998	2.311	5.000	46%		mg/L	out
	Ti 336.121	1.013	1.000	101%		mg/L	
Hi AQC	Al 308.215	100.665	100.000	101%		mg/L	
	Ca 315.887	107.382	100.000	107%		mg/L	
	Fe 273.955	107.251	100.000	107%		mg/L	
	K 766.490	100.235	100.000	100%		mg/L	
	Mg 279.077	61.275	60.000	102%		mg/L	
	Na 589.592	103.788	100.000	104%		mg/L	

KS
080503

Laboratory Reagent Blank

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.001	0.003		mg/L
11:48 AM	Al 308.215	0.07	0.06	out	mg/L
	B 249.677	0.10	0.02	out	mg/L
	Ba 455.403	0.001	0.001		mg/L
	Be 313.042	-0.0017	0.0004	out	mg/L
	Ca 315.887	0.13	0.09	out	mg/L
	Cd 228.802	-0.005	0.006		mg/L
	Co 228.616	-0.00	0.01		mg/L
	Cr 283.563	-0.001	0.006		mg/L
	Cu 324.752	-0.011	0.005	out	mg/L
	Fe 273.955	-0.06	0.04	out	mg/L
	K 766.490	0.1	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	0.03	0.04		mg/L
	Mn 257.610	-0.001	0.001		mg/L
	Mo 204.597	-0.01	0.03		mg/L
	Na 589.592	0.1	0.5		mg/L
	Ni 231.604	0.00	0.02		mg/L
	Pb 220.353	0.01	0.07		mg/L
	Sn 283.998	0.03	0.02	out	mg/L
	Ti 336.121	0.000	0.002		mg/L
	V 310.289	0.02	0.02		mg/L
	Zn 213.857	0.01	0.09		mg/L

KB
08 05 03

Work Order Number: 0305007
Analysis Date: 07/25/2003 DUPLICATE
Sample Name: 0305007-04

Element	Units	Sample	Duplicate	Difference	Rpt Limit	RPD
Ag 338.289	mg/kg	0.5	0.2	0.3	0.4	74%
Al 308.215	mg/kg	1907	1911	-4.5	14	-0%
B 249.677	mg/kg	17.7	18.2	-0.6	5.7	-3%
Ba 455.403	mg/kg	21.35	21.25	0.1	0.36	0%
Be 313.042	mg/kg	-0.07	-0.08	0.0	0.07	-2%
Ca 315.887	mg/kg	22677	21226	1450.8	21	7%
Cd 228.802	mg/kg	1.5	1.1	0.4	1.4	28%
Co 228.616	mg/kg	2.9	2.8	0.1	2.9	5%
Cr 283.563	mg/kg	56.8	57.6	-0.8	1.4	-1%
Cu 324.752	mg/kg	46.3	46.0	0.3	1.4	1%
Fe 273.955	mg/kg	24203	23940	263.2	7	1%
K 766.490	mg/kg	247	265	-17.8	179	-7%
Li 670.784	mg/kg	1.9	2.1	-0.2	3.6	-9%
Mg 279.077	mg/kg	11818	11293	525.0	7	5%
Mn 257.610	mg/kg	198.14	194.22	3.9	0.21	2%
Mo 204.597	mg/kg	7	4	2.9	4	54%
Na 589.592	mg/kg	85	97	-11.9	43	-13%
Ni 231.604	mg/kg	23.4	21.6	1.8	3.6	8%
Pb 220.353	mg/kg	208	204	3.9	14	2%
Sn 283.998	mg/kg	10	11	-1.3	0	-13%
Ti 336.121	mg/kg	115.0	112.0	3.0	0.6	3%
V 310.230	mg/kg	15	14	1.8	2	13%
Zn 213.857	mg/kg	416	409	7.7	21	2%

SPIKE

Element	Units	Sample	Spike	Spike Added	% Recovery	Spike II	Spike Added	% Recovery
Ag 338.289	mg/kg	0.5	12.7	15.9	77			
B 249.677	mg/kg	18	160	159.0	90	183	173	96
Ba 455.403	mg/kg	21.35	94.20	79.5	92	858.49	865.50	97
Be 313.042	mg/kg	-0.07	7.20	8.0	91	8.77	8.66	102
Cd 228.802	mg/kg	1.5	12.5	15.9	69	135.3	173.1	77
Co 228.616	mg/kg	2.9	76.4	79.5	92	85.5	86.6	95
Cr 283.563	mg/kg	56.8	125.4	79.5	86	879.8	865.5	95
Cu 324.752	mg/kg	46.3	112.6	79.5	83	849.3	865.5	93
Li 670.784	mg/kg	2	77	79.5	94	89	87	100
Mn 257.610	mg/kg	198.14	470.83	318.1	86	1863.83	1731.00	96
Mo 204.597	mg/kg	7	143	159.0	86			
Ni 231.604	mg/kg	23.4	90.9	79.5	85	350.6	346.2	95
Pb 220.353	mg/kg	207.8	339.0	159.0	82	1021.2	865.5	94
Sn 283.998	mg/kg	10	80	159.0	44			
V 310.230	mg/kg	15	80	79.5	82	94	87	91
Zn 213.857	mg/kg	416	520	159.0	65	2001	1731	92

KB
080503

Work Order Number: 0305007
Analysis Date: 07/25/2003
Sample Name: 0305007-09

DUPLICATE

Element	Units	Sample	Duplicate	Difference	Rpt Limit	RPD
Ag 338.289	mg/kg	0.2	0.4	-0.2	0.4	-68%
Al 308.215	mg/kg	1549	1617	-68.5	15	-4%
B 249.677	mg/kg	26.8	22.5	4.3	6.1	17%
Ba 455.403	mg/kg	17.16	19.81	-2.6	0.38	-14%
Be 313.042	mg/kg	-0.18	-0.11	-0.1	0.08	45%
Ca 315.887	mg/kg	26102	26069	32.9	23	0%
Cd 228.802	mg/kg	0.2	0.3	-0.0	1.5	-19%
Co 228.616	mg/kg	2.1	2.6	-0.4	3.1	-19%
Cr 283.563	mg/kg	35.7	37.7	-2.0	1.5	-5%
Cu 324.752	mg/kg	28.8	33.9	-5.1	1.5	-16%
Fe 273.955	mg/kg	17746	18383	-636.1	8	-4%
K 766.490	mg/kg	247	213	34.5	191	15%
Li 670.784	mg/kg	3.5	2.0	1.6	3.8	57%
Mg 279.077	mg/kg	13718	13755	-36.4	8	-0%
Mn 257.610	mg/kg	175.45	184.75	-9.3	0.23	-5%
Mo 204.597	mg/kg	0	2	-1.1	5	-112%
Na 589.592	mg/kg	153	105	47.5	46	37%
Ni 231.604	mg/kg	18.4	19.7	-1.3	3.8	-7%
Pb 220.353	mg/kg	170	199	-29.6	15	-16%
Sn 283.998	mg/kg	4	3	0.8	0	23%
Ti 336.121	mg/kg	113.4	113.5	-0.1	0.6	-0%
V 310.230	mg/kg	14	13	0.2	2	2%
Zn 213.857	mg/kg	360	356	4.0	23	1%

SPIKE

Element	Units	Sample	Spike	Spike Added	% Recovery	Spike II	Spike Added	% Recovery
Ag 338.289	mg/kg	0.2	16.2	19.1	84			
B 249.677	mg/kg	27	190	191.3	85	198	188	91
Ba 455.403	mg/kg	17.16	110.43	95.7	98	939.54	938.09	98
Be 313.042	mg/kg	-0.18	8.43	9.6	90	9.55	9.38	104
Cd 228.802	mg/kg	0.2	14.9	19.1	77	150.4	187.6	80
Co 228.616	mg/kg	2.1	87.9	95.7	90	92.1	93.8	96
Cr 283.563	mg/kg	35.7	117.9	95.7	86	942.7	938.1	97
Cu 324.752	mg/kg	28.8	116.3	95.7	91	910.0	938.1	94
Li 670.784	mg/kg	4	92	95.7	92	98	94	100
Mn 257.610	mg/kg	175.45	509.18	382.6	87	2001.15	1876.17	97
Mo 204.597	mg/kg	0	170	191.3	88			
Ni 231.604	mg/kg	18.4	102.3	95.7	88	371.6	375.2	94
Pb 220.353	mg/kg	169.6	397.4	191.3	119	1075.5	938.1	97
Sn 283.998	mg/kg	4	87	191.3	43			
V 310.230	mg/kg	14	95	95.7	85	103	94	95
Zn 213.857	mg/kg	360	480	191.3	63	2054	1876	90

KJ
080503

SIC AsTi

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	0.050	0.003	mg/L
12:00 AM	Al 308.215	0.054	0.025	mg/L
	B 249.677	0.02	0.02	mg/L
	Ba 455.403	-0.0034	0.0004	mg/L
	Be 313.042	-0.0014	0.0002	mg/L
	Ca 315.887	0.07	0.02	mg/L
	Cd 228.802	0.161	0.006	mg/L
	Co 228.616	0.007	0.004	mg/L
	Cr 283.563	-0.003	0.006	mg/L
	Cu 324.752	0.000	0.003	mg/L
	Fe 273.955	0.10	0.02	mg/L
	K 766.490	0.1	0.7	mg/L
	Li 670.784	0.00	0.01	mg/L
	Mg 279.077	0.02	0.03	mg/L
	Mn 257.610	-0.0000	0.0007	mg/L
	Mo 204.597	-0.02	0.03	mg/L
	Na 589.592	-0.0	0.5	mg/L
	Ni 231.604	-0.006	0.003	mg/L
	Pb 220.353	0.051	0.032	mg/L
	Sn 283.998	0.08	0.02	mg/L
	Ti 336.121	49.347	0.001	mg/L
	V 310.289	0.02	0.02	mg/L
	Zn 213.857	0.07	0.01	mg/L

KS
080503

SIC AlFe

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	0.001	0.003	mg/L
12:00 AM	Al 308.215	198.875	0.025	mg/L
	B 249.677	0.02	0.02	mg/L
	Ba 455.403	0.0008	0.0004	mg/L
	Be 313.042	-0.0016	0.0002	mg/L
	Ca 315.887	0.02	0.02	mg/L
	Cd 228.802	-0.003	0.006	mg/L
	Co 228.616	-0.006	0.004	mg/L
	Cr 283.563	0.041	0.006	mg/L
	Cu 324.752	0.004	0.003	mg/L
	Fe 273.955	212.06	0.02	mg/L
	K 766.490	-0.0	0.7	mg/L
	Li 670.784	0.00	0.01	mg/L
	Mg 279.077	-0.04	0.03	mg/L
	Mn 257.610	0.0000	0.0007	mg/L
	Mo 204.597	-0.04	0.03	mg/L
	Na 589.592	-0.0	0.5	mg/L
	Ni 231.604	0.003	0.003	mg/L
	Pb 220.353	0.099	0.032	mg/L
	Sn 283.998	-0.03	0.02	mg/L
	Ti 336.121	0.011	0.001	mg/L
	V 310.289	0.02	0.02	mg/L
	Zn 213.857	0.04	0.01	mg/L

14
08 05 03

Report Level Check

Sample Batch Number: 0305007
Analysis Date: 07/25/2003
Results Data Set: 0305007 072503 IH(2)3050B

QC	Element	Measured	Actual	Recovery	Units
RLC	Ag 328.068	0.188	0.01	1881%	mg/L
11:45 AM	Al 308.215	0.549	0.1	549%	mg/L
	B 249.677	0.102	0.1	102%	mg/L
	Ba 455.403	0.005	0.002	248%	mg/L
	Be 313.042	0.003	0.001	342%	mg/L
	Ca 315.887	0.527	0.1	527%	mg/L
	Cd 228.802	0.008	0.02	40%	mg/L
	Co 228.616	0.048	0.02	242%	mg/L
	Cr 283.563	0.010	0.02	48%	mg/L
	Cu 324.752	0.035	0.01	351%	mg/L
	Fe 273.955	0.481	0.05	962%	mg/L
	K 766.490	0.606	2.5	24%	mg/L
	Li 670.784	0.047	0.05	94%	mg/L
	Mg 279.077	0.516	0.01	5160%	mg/L
	Mn 257.610	0.004	0.005	76%	mg/L
	Mo 204.597	0.096	0.1	96%	mg/L
	Na 589.592	1.061	2	53%	mg/L
	Ni 231.604	0.090	0.05	180%	mg/L
	Pb 220.353	0.110	0.1	110%	mg/L
	Sn 283.998	0.052	0.3	17%	mg/L
	Ti 336.121	0.010	0.01	105%	mg/L
	V 310.289	0.075	0.02	375%	mg/L
	Zn 213.857	0.473	0.05	946%	mg/L

check

0305007 072503 1H(2)3050B -01...-09

Mean Data: Cal 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	178427.5	2906.11	1.63%		
Ag 328.068†	2949.5	38.43	1.30%	[0.5]	mg/L
Ag 338.289†	1600.4	25.16	1.57%	[0.5]	mg/L
As 188.979†	93.5	3.06	3.27%	[10]	mg/L
As 193.696†	63.0	1.07	1.70%	[10]	mg/L
As 197.197†	73.2	4.94	6.75%	[10]	mg/L
B 208.889†	71.7	3.16	4.41%	[1]	mg/L
B 249.677†	516.0	11.96	2.32%	[1]	mg/L
B 249.772†	1130.4	19.29	1.71%	[1]	mg/L
Ca 317.933†	21561.6	327.22	1.52%	[10]	mg/L
Cd 214.440†	2139.8	30.52	1.43%	[2]	mg/L
Cd 226.502†	1321.2	25.68	1.94%	[2]	mg/L
Cd 228.802†	1830.1	24.12	1.32%	[2]	mg/L
Sb 206.836†	144.7	1.23	0.85%	[5]	mg/L
Sb 217.582†	112.1	1.76	1.57%	[5]	mg/L
Sb 231.146†	121.9	2.74	2.25%	[5]	mg/L
Se 196.026†	48.6	0.81	1.66%	[5]	mg/L
Se 203.985†	49.4	1.27	2.58%	[5]	mg/L
Sr 407.771†	329606.1	1438.40	0.44%	[1]	mg/L
Sr 421.552†	148340.8	592.92	0.40%	[1]	mg/L
Sr 460.733†	2156.9	78.68	3.65%	[1]	mg/L

Sequence No.: 4
Sample ID: Cal 2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 7/25/03 10:43:41 AM
Sample Prep Volume:
Data Type: Original

printer

Analysis Begun

Start Time: 7/25/03 10:44:13 AM
Logged In Analyst: KSWAN
Spectrometer Model: Optima 3300 DV
Plasma On Time: 7/25/03 8:41:55 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\KSWAN\Sample Information\0305007 072503 01-09.sif
Results Data Set: 0305007 072503 IH(2)3050B
Results Library: D:\KSWAN\Results\Results.mdb

Sequence No.: 4
Sample ID: Cal 2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 7/25/03 10:44:13 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	178126.8	848.91	0.48%		
Li 610.362†	27158.3	173.41	0.64%	[5]	mg/L
Li 670.784†	174346.0	395.67	0.23%	[5]	mg/L
Mo 202.031†	123.8	1.65	1.33%	[10]	mg/L
Mo 203.845†	403.2	3.11	0.77%	[10]	mg/L
Mo 204.597†	742.7	4.90	0.66%	[10]	mg/L
Na 588.995†	60516.6	38.08	0.06%	[10]	mg/L
Ti 334.940†	221255.0	541.47	0.24%	[10]	mg/L
Ti 336.121†	156287.5	436.88	0.28%	[10]	mg/L
Ti 337.279†	76475.6	138.69	0.18%	[10]	mg/L

Sequence No.: 5
Sample ID: Cal 3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 12
Date Collected: 7/25/03 10:47:53 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	175883.4	2286.38	1.30%		
Ce 413.380†	2336.5	22.48	0.96%	[2]	mg/L
Ce 413.764†	2383.4	43.04	1.81%	[2]	mg/L
Ce 418.660†	3262.2	52.59	1.61%	[2]	mg/L
Co 228.616†	1386.6	17.92	1.29%	[2]	mg/L
Co 230.786†	1399.0	18.81	1.34%	[2]	mg/L
Co 238.892†	1212.9	14.72	1.21%	[2]	mg/L
V 290.880†	6073.0	96.11	1.58%	[2]	mg/L
V 309.310†	13283.2	190.61	1.43%	[2]	mg/L
V 310.230†	15480.5	225.67	1.46%	[2]	mg/L

Sequence No.: 6
Sample ID: Cal 4A+B
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 7/25/03 10:51:34 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 4A+B

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	180775.0	1967.83	1.09%		
Al 394.401†	8368.8	21.99	0.26%	[10]	mg/L
Al 396.153†	19882.1	129.20	0.65%	[10]	mg/L

Cr 205.560†	750.1	4.56	0.61%	[5] mg/L
Cr 267.716†	4772.5	15.36	0.32%	[5] mg/L
Cr 283.563†	23996.9	68.77	0.29%	[5] mg/L
Sn 189.927†	35.4	0.86	2.43%	[4] mg/L
Sn 235.485†	172.4	0.37	0.21%	[4] mg/L
Sn 283.998†	1554.2	17.08	1.10%	[4] mg/L

Sequence No.: 7 **Autosampler Location: 14**
Sample ID: Cal 4C **Date Collected: 7/25/03 10:55:17 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 4C

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	178815.3	2823.12	1.58%	
Ba 233.527†	11577.1	224.25	1.94%	[5] mg/L
Ba 455.403†	603864.2	4477.19	0.74%	[5] mg/L
Ba 493.408†	558115.5	4215.23	0.76%	[5] mg/L
Cu 224.700†	1594.3	30.25	1.90%	[5] mg/L
Cu 324.752†	34974.3	323.21	0.92%	[5] mg/L
Cu 327.393†	15152.0	300.33	1.98%	[5] mg/L
Mn 257.610†	137612.4	917.24	0.67%	[10] mg/L
Mn 259.372†	131118.5	933.53	0.71%	[10] mg/L
Mn 260.568†	82602.2	685.25	0.83%	[10] mg/L
Zn 202.548†	3521.6	68.34	1.94%	[10] mg/L
Zn 206.200†	3735.5	78.14	2.09%	[10] mg/L
Zn 213.857†	4945.8	93.46	1.89%	[10] mg/L

Sequence No.: 8 **Autosampler Location: 15**
Sample ID: Cal 5 **Date Collected: 7/25/03 10:59:01 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	179400.8	5164.97	2.88%	
Be 234.861†	13873.7	476.98	3.44%	[1] mg/L
Be 313.042†	70529.1	2657.86	3.77%	[1] mg/L
Be 313.107†	37274.7	1338.57	3.59%	[1] mg/L
Fe 238.204†	17801.8	587.91	3.30%	[10] mg/L
Fe 239.562†	10370.4	282.73	2.73%	[10] mg/L
Fe 259.939†	35642.8	1198.25	3.36%	[10] mg/L
Mg 280.271†	553438.4	3185.36	0.58%	[10] mg/L
Mg 285.213†	43369.3	1523.96	3.51%	[10] mg/L
Ni 221.648†	183.6	5.15	2.81%	[2] mg/L
Ni 231.604†	641.2	15.74	2.45%	[2] mg/L
Ni 232.003†	380.3	11.33	2.98%	[2] mg/L
Pb 217.000†	249.2	4.32	1.74%	[10] mg/L
Pb 220.353†	465.7	9.65	2.07%	[10] mg/L
Tl 190.801†	28.1	0.57	2.02%	[5] mg/L
Tl 276.787†	545.3	17.31	3.17%	[5] mg/L
Tl 351.924†	748.5	20.87	2.79%	[5] mg/L

Sequence No.: 9 **Autosampler Location: 16**
Sample ID: Hi Cal **Date Collected: 7/25/03 11:02:48 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	167708.7	2992.14	1.78%		
Al 308.215†	346257.4	1754.54	0.51%	[500]	mg/L
Ca 315.887†	962059.2	5067.03	0.53%	[500]	mg/L
Fe 273.955†	244314.2	1084.42	0.44%	[500]	mg/L
K 766.490†	617541.0	2916.87	0.47%	[500]	mg/L
Mg 279.077†	194801.4	1084.82	0.56%	[500]	mg/L
Na 589.592†	749176.0	2585.70	0.35%	[200]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin, Calc Int	0.0	5899	0.00000	1.000000	
Ag 338.289	1	Lin, Calc Int	0.0	3201	0.00000	1.000000	
Al 308.215	1	Lin, Calc Int	0.0	692.5	0.00000	1.000000	
Al 394.401	1	Lin, Calc Int	0.0	836.9	0.00000	1.000000	
Al 396.153	1	Lin, Calc Int	0.0	1988	0.00000	1.000000	
As 188.979	1	Lin, Calc Int	0.0	9.348	0.00000	1.000000	
As 193.696	1	Lin, Calc Int	0.0	6.303	0.00000	1.000000	
As 197.197	1	Lin, Calc Int	0.0	7.319	0.00000	1.000000	
B 208.889	1	Lin, Calc Int	0.0	71.67	0.00000	1.000000	
B 249.677	1	Lin, Calc Int	0.0	516.0	0.00000	1.000000	
B 249.772	1	Lin, Calc Int	0.0	1130	0.00000	1.000000	
Ba 233.527	1	Lin, Calc Int	0.0	2315	0.00000	1.000000	
Ba 455.403	1	Lin, Calc Int	-0.0	120800	0.00000	1.000000	
Ba 493.408	1	Lin, Calc Int	-0.0	111600	0.00000	1.000000	
Be 234.861	1	Lin, Calc Int	0.0	13870	0.00000	1.000000	
Be 313.042	1	Lin, Calc Int	0.0	70530	0.00000	1.000000	
Be 313.107	1	Lin, Calc Int	0.0	37270	0.00000	1.000000	
Ca 315.887	1	Lin, Calc Int	0.0	1924	0.00000	1.000000	
Ca 317.933	1	Lin, Calc Int	0.0	2156	0.00000	1.000000	
Cd 214.440	1	Lin, Calc Int	0.0	1070	0.00000	1.000000	
Cd 226.502	1	Lin, Calc Int	0.0	660.6	0.00000	1.000000	
Cd 228.802	1	Lin, Calc Int	0.0	915.0	0.00000	1.000000	
Ce 413.380	1	Lin, Calc Int	0.0	1168	0.00000	1.000000	
Ce 413.764	1	Lin, Calc Int	0.0	1192	0.00000	1.000000	
Ce 418.660	1	Lin, Calc Int	0.0	1631	0.00000	1.000000	
Co 228.616	1	Lin, Calc Int	0.0	693.3	0.00000	1.000000	
Co 230.786	1	Lin, Calc Int	0.0	699.5	0.00000	1.000000	
Co 238.892	1	Lin, Calc Int	0.0	606.5	0.00000	1.000000	
Cr 205.560	1	Lin, Calc Int	0.0	150.0	0.00000	1.000000	
Cr 267.716	1	Lin, Calc Int	0.0	954.5	0.00000	1.000000	
Cr 283.563	1	Lin, Calc Int	-0.0	4799	0.00000	1.000000	
Cu 224.700	1	Lin, Calc Int	0.0	318.9	0.00000	1.000000	
Cu 324.752	1	Lin, Calc Int	0.0	6995	0.00000	1.000000	
Cu 327.393	1	Lin, Calc Int	0.0	3030	0.00000	1.000000	
Fe 238.204	1	Lin, Calc Int	0.0	1780	0.00000	1.000000	
Fe 239.562	1	Lin, Calc Int	0.0	1037	0.00000	1.000000	
Fe 259.939	1	Lin, Calc Int	0.0	3564	0.00000	1.000000	
Fe 273.955	1	Lin, Calc Int	0.0	488.6	0.00000	1.000000	
K 766.490	1	Lin, Calc Int	0.0	1235	0.00000	1.000000	
Li 610.362	1	Lin, Calc Int	0.0	5432	0.00000	1.000000	
Li 670.784	1	Lin, Calc Int	0.0	34870	0.00000	1.000000	
Mg 279.077	1	Lin, Calc Int	0.0	389.6	0.00000	1.000000	
Mg 280.271	1	Lin, Calc Int	0.0	55340	0.00000	1.000000	
Mg 285.213	1	Lin, Calc Int	0.0	4337	0.00000	1.000000	
Mn 257.610	1	Lin, Calc Int	-0.0	13760	0.00000	1.000000	
Mn 259.372	1	Lin, Calc Int	0.0	13110	0.00000	1.000000	
Mn 260.568	1	Lin, Calc Int	0.0	8260	0.00000	1.000000	
Mo 202.031	1	Lin, Calc Int	-0.0	12.38	0.00000	1.000000	
Mo 203.845	1	Lin, Calc Int	0.0	40.32	0.00000	1.000000	
Mo 204.597	1	Lin, Calc Int	0.0	74.27	0.00000	1.000000	
Na 588.995	1	Lin, Calc Int	0.0	6052	0.00000	1.000000	
Na 589.592	1	Lin, Calc Int	0.0	3746	0.00000	1.000000	
Ni 221.648	1	Lin, Calc Int	0.0	91.78	0.00000	1.000000	
Ni 231.604	1	Lin, Calc Int	0.0	320.6	0.00000	1.000000	
Ni 232.003	1	Lin, Calc Int	0.0	190.1	0.00000	1.000000	
Pb 217.000	1	Lin, Calc Int	0.0	24.92	0.00000	1.000000	

Pb 220.353	1	Lin, Calc Int	0.0	46.57	0.00000	1.000000
Sb 206.836	1	Lin, Calc Int	0.0	28.95	0.00000	1.000000
Sb 217.582	1	Lin, Calc Int	-0.0	22.42	0.00000	1.000000
Sb 231.146	1	Lin, Calc Int	0.0	24.39	0.00000	1.000000
Se 196.026	1	Lin, Calc Int	-0.0	9.711	0.00000	1.000000
Se 203.985	1	Lin, Calc Int	0.0	9.889	0.00000	1.000000
Sn 189.927	1	Lin, Calc Int	0.0	8.851	0.00000	1.000000
Sn 235.485	1	Lin, Calc Int	0.0	43.11	0.00000	1.000000
Sn 283.998	1	Lin, Calc Int	0.0	388.6	0.00000	1.000000
Sr 407.771	1	Lin, Calc Int	0.0	329600	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	148300	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	2157	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	0.0	22130	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	0.0	15630	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	7648	0.00000	1.000000
Tl 190.801	1	Lin, Calc Int	-0.0	5.630	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	109.1	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	-0.0	149.7	0.00000	1.000000
V 290.880	1	Lin, Calc Int	0.0	3036	0.00000	1.000000
V 309.310	1	Lin, Calc Int	0.0	6642	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	7740	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	0.0	352.2	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	373.6	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	494.6	0.00000	1.000000

Analysis Begun

Start Time: 7/25/03 11:24:41 AM
Logged In Analyst: KSWAN
Spectrometer Model: Optima 3300 DV
Plasma On Time: 7/25/03 8:41:55 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\KSWAN\Sample Information\0305007 072503 01-09.sif
Results Data Set: 0305007 072503 IH(2)3050B
Results Library: D:\KSWAN\Results\Results.mdb

Sequence No.: 1
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 7/25/03 11:24:41 AM
Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	173965.7						1501.40	0.86%
Ag 328.068†	0.2	0.00004	mg/L	0.001985				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	10.0	0.00304	mg/L	0.004294				141.09%
Al 308.215†	40.1	0.05813	mg/L	0.020184				34.72%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	17.9	0.02266	mg/L	0.010521				46.43%
Al 396.153†	40.7	0.02181	mg/L	0.006950				31.87%
As 188.979†	1.1	0.1222	mg/L	0.07888				64.54%
As 193.696†	1.8	0.2794	mg/L	0.02032				7.27%
As 197.197†	0.3	0.03545	mg/L	0.215126				606.87%
B 208.889†	3.2	0.04500	mg/L	0.054599				121.33%
B 249.677†	-2.7	-0.00535	mg/L	0.005249				98.09%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	5.5	0.00488	mg/L	0.002480				50.81%
Ba 233.527†	3.8	0.00161	mg/L	0.000408				25.38%
Ba 455.403†	44.5	0.00036	mg/L	0.000080				22.57%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	101.2	0.00090	mg/L	0.000439				48.98%
Be 234.861†	5.5	0.00039	mg/L	0.000255				65.59%
Be 313.042†	-120.8	-0.00171	mg/L	0.000086				5.02%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	0.2	0.00001	mg/L	0.000013				218.01%
Ca 315.887†	73.8	0.03837	mg/L	0.004853				12.65%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	368.6	0.1709	mg/L	0.00614				3.59%
Cd 214.440†	1.0	0.00097	mg/L	0.000893				92.04%
Cd 226.502†	0.1	0.00020	mg/L	0.003803				>999.9%
Cd 228.802†	-5.1	-0.00892	mg/L	0.003406				38.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-22.4	-0.01916	mg/L	0.002672				13.95%
Ce 413.764†	4.6	0.00386	mg/L	0.005087				131.79%
Ce 418.660†	-2.4	-0.00147	mg/L	0.005666				385.60%
Co 228.616†	-4.0	-0.00580	mg/L	0.004757				82.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	0.7	0.00098	mg/L	0.001745				177.54%
Co 238.892†	-0.5	-0.00083	mg/L	0.000714				85.76%
Cr 205.560†	0.5	0.00336	mg/L	0.003481				103.69%
Cr 267.716†	-0.6	-0.00061	mg/L	0.003002				488.85%
Cr 283.563†	-5.6	-0.00115	mg/L	0.001091				94.71%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-6.9	-0.02151	mg/L	0.004025				18.71%
Cu 324.752†	-54.9	-0.00776	mg/L	0.001189				15.32%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-23.7	-0.00774	mg/L	0.001661				21.46%
Fe 238.204†	33.4	0.01888	mg/L	0.004481				23.73%
Fe 239.562†	26.6	0.02576	mg/L	0.003957				15.36%

Fe 259.939†	76.0	0.02142	mg/L	0.004508	21.05%
Fe 273.955†	6.0	0.01236	mg/L	0.007808	63.16%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	115.0	0.09310	mg/L	0.065235	70.07%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	989.8	0.1822	mg/L	0.07339	40.28%
Li 670.784†	-44.6	-0.00127	mg/L	0.003042	239.77%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	4.9	0.01260	mg/L	0.015753	125.01%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	887.5	0.01603	mg/L	0.002917	18.20%
Mg 285.213†	76.9	0.01774	mg/L	0.002972	16.75%
Mn 257.610†	6.8	0.00051	mg/L	0.000277	54.66%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	5.1	0.00060	mg/L	0.000391	64.77%
Mn 260.568†	-0.9	-0.00011	mg/L	0.000408	356.84%
Mo 202.031†	-0.3	-0.02505	mg/L	0.162769	649.85%
Mo 203.845†	1.2	0.02892	mg/L	0.011692	40.43%
Mo 204.597†	-3.3	-0.04460	mg/L	0.020910	46.88%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	713.2	0.1178	mg/L	0.02737	23.22%
Na 589.592†	143.9	0.03842	mg/L	0.026294	68.44%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	1.6	0.01740	mg/L	0.023268	133.74%
Ni 231.604†	0.6	0.00200	mg/L	0.002127	106.31%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-1.8	-0.00926	mg/L	0.012613	136.26%
Pb 217.000†	1.0	0.04185	mg/L	0.037802	90.32%
Pb 220.353†	-1.1	-0.02409	mg/L	0.032652	135.52%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-1.6	-0.05620	mg/L	0.069925	124.42%
Sb 217.582†	-0.9	-0.03850	mg/L	0.048880	126.96%
Sb 231.146†	0.6	0.02509	mg/L	0.074983	298.88%
Se 196.026†	0.3	0.03073	mg/L	0.136785	445.15%
Se 203.985†	-0.0	-0.00070	mg/L	0.199421	>999.9%
Sn 189.927†	-2.4	-0.2715	mg/L	0.07196	26.51%
Sn 235.485†	-0.6	-0.01891	mg/L	0.095736	506.34%
Sn 283.998†	7.8	0.01874	mg/L	0.002721	14.51%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	23.6	0.00007	mg/L	0.000145	210.67%
Sr 421.552†	25.3	0.00017	mg/L	0.000197	117.90%
Sr 460.733†	6.7	0.00322	mg/L	0.042136	>999.9%
Ti 334.940†	8.5	0.00038	mg/L	0.000097	25.45%
Ti 336.121†	-6.4	-0.00042	mg/L	0.000436	104.77%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-10.2	-0.00133	mg/L	0.000530	39.78%
Tl 190.801†	0.9	0.1637	mg/L	0.45307	276.82%
Tl 276.787†	-5.4	-0.04955	mg/L	0.067281	135.77%
Tl 351.924†	4.1	0.02738	mg/L	0.062196	227.12%
V 290.880†	-8.2	-0.00268	mg/L	0.003561	132.89%
V 309.310†	57.0	0.00849	mg/L	0.001274	15.00%
V 310.230†	210.3	0.02717	mg/L	0.000965	3.55%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	3.5	0.01003	mg/L	0.004789	47.75%
Zn 206.200†	3.5	0.00940	mg/L	0.003946	41.98%
Zn 213.857†	3.2	0.00654	mg/L	0.002869	43.84%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analytes passed QC.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 7/25/03 11:28:25 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	176097.5			3965.64	2.25%
Ag 328.068†	1455.7	0.2471 mg/L	0.00262		1.06%
QC value within limits for Ag 328.068 Recovery = 98.85%					
Ag 338.289†	785.8	0.2468 mg/L	0.00518		2.10%
Al 308.215†	762.3	1.078 mg/L	0.0210		1.95%
QC value within limits for Al 308.215 Recovery = 107.84%					
Al 394.401†	913.6	1.025 mg/L	0.0138		1.34%
Al 396.153†	2110.7	1.069 mg/L	0.0119		1.11%
As 188.979†	21.4	2.280 mg/L	0.0766		3.36%
As 193.696†	16.1	2.556 mg/L	0.2313		9.05%
As 197.197†	14.5	1.977 mg/L	0.1675		8.47%
B 208.889†	68.4	0.9532 mg/L	0.01969		2.07%
B 249.677†	512.8	0.9920 mg/L	0.01415		1.43%
QC value within limits for B 249.677 Recovery = 99.20%					
B 249.772†	1111.8	0.9844 mg/L	0.01983		2.01%
Ba 233.527†	2379.2	1.027 mg/L	0.0203		1.98%
Ba 455.403†	123290.1	1.020 mg/L	0.0018		0.18%
QC value within limits for Ba 455.403 Recovery = 102.02%					
Ba 493.408†	113727.7	1.018 mg/L	0.0018		0.17%
Be 234.861†	13914.2	1.003 mg/L	0.0071		0.71%
Be 313.042†	72231.9	1.024 mg/L	0.0060		0.59%
QC value within limits for Be 313.042 Recovery = 102.35%					
Be 313.107†	38242.9	1.026 mg/L	0.0020		0.19%
Ca 315.887†	2130.2	1.103 mg/L	0.0242		2.19%
Ca 317.933†	2500.1	1.157 mg/L	0.0202		1.74%
QC value greater than the upper limit for Ca 317.933 Recovery = 115.70%					
Cd 214.440†	1149.0	1.074 mg/L	0.0232		2.16%
Cd 226.502†	708.2	1.072 mg/L	0.0201		1.87%
Cd 228.802†	802.8	0.8469 mg/L	0.02053		2.42%
QC value less than the lower limit for Cd 228.802 Recovery = 84.69%					
Ce 413.380†	1152.8	0.9859 mg/L	0.03256		3.30%
Ce 413.764†	1177.7	0.9867 mg/L	0.02380		2.41%
Ce 418.660†	1731.9	1.061 mg/L	0.0137		1.29%
Co 228.616†	721.1	1.039 mg/L	0.0205		1.97%
QC value within limits for Co 228.616 Recovery = 103.94%					
Co 230.786†	676.2	0.9651 mg/L	0.02062		2.14%
Co 238.892†	607.7	0.9992 mg/L	0.02617		2.62%
Cr 205.560†	148.8	0.9913 mg/L	0.01833		1.85%
Cr 267.716†	966.7	1.011 mg/L	0.0135		1.33%
Cr 283.563†	4834.6	1.005 mg/L	0.0037		0.37%
QC value within limits for Cr 283.563 Recovery = 100.55%					
Cu 224.700†	320.4	1.000 mg/L	0.0144		1.44%
Cu 324.752†	7146.4	1.020 mg/L	0.0052		0.51%
QC value within limits for Cu 324.752 Recovery = 102.00%					
Cu 327.393†	3091.4	1.018 mg/L	0.0169		1.66%
Fe 238.204†	1860.5	1.054 mg/L	0.0194		1.84%
Fe 239.562†	1105.2	1.073 mg/L	0.0163		1.52%
Fe 259.939†	3741.0	1.057 mg/L	0.0175		1.66%
QC value within limits for Fe 259.939 Recovery = 105.70%					
Fe 273.955†	555.7	1.139 mg/L	0.0255		2.24%
K 766.490†	6073.9	4.918 mg/L	0.0825		1.68%
QC value within limits for K 766.490 Recovery = 98.36%					
Li 610.362†	6108.1	1.096 mg/L	0.1727		15.76%
Li 670.784†	35358.8	1.015 mg/L	0.0078		0.77%
QC value less than the lower limit for Li 670.784 Recovery = 20.29%					
Mg 279.077†	405.3	1.039 mg/L	0.0050		0.48%
Mg 280.271†	56953.5	1.028 mg/L	0.0048		0.46%
QC value within limits for Mg 280.271 Recovery = 102.82%					
Mg 285.213†	4506.8	1.039 mg/L	0.0235		2.26%
Mn 257.610†	14020.3	1.019 mg/L	0.0075		0.73%
QC value within limits for Mn 257.610 Recovery = 101.87%					
Mn 259.372†	13275.8	1.011 mg/L	0.0078		0.77%
Mn 260.568†	8245.7	0.9973 mg/L	0.00663		0.67%
Mo 202.031†	-0.5	-0.04440 mg/L	0.034741		78.24%
Mo 203.845†	1.0	0.02458 mg/L	0.078411		319.02%
Mo 204.597†	-1.2	-0.01694 mg/L	0.003987		23.54%
Na 588.995†	7338.3	1.213 mg/L	0.0708		5.84%
Na 589.592†	3887.1	1.038 mg/L	0.0210		2.02%
Ni 221.648†	94.0	1.026 mg/L	0.0374		3.64%
Ni 231.604†	328.3	1.024 mg/L	0.0331		3.24%

QC value within limits for Ni 231.604 Recovery = 102.36%					
Ni 232.003†	202.2	1.017	mg/L	0.0246	2.42%
Pb 217.000†	49.3	1.969	mg/L	0.0958	4.86%
Pb 220.353†	91.7	1.984	mg/L	0.0293	1.48%
QC value within limits for Pb 220.353 Recovery = 99.19%					
Sb 206.836†	-0.7	-0.04261	mg/L	0.069523	163.17%
Sb 217.582†	-0.7	-0.03786	mg/L	0.027971	73.87%
Sb 231.146†	4.2	0.04738	mg/L	0.173649	366.48%
Se 196.026†	12.9	1.311	mg/L	0.1807	13.78%
Se 203.985†	10.1	0.8803	mg/L	0.05976	6.79%
Sn 189.927†	-0.5	-0.06003	mg/L	0.011415	19.02%
Sn 235.485†	17.5	0.02613	mg/L	0.035195	134.71%
Sn 283.998†	177.0	0.01854	mg/L	0.023145	124.82%
Sr 407.771†	328121.8	0.9954	mg/L	0.00270	0.27%
Sr 421.552†	148067.9	0.9981	mg/L	0.00259	0.26%
Sr 460.733†	2172.2	1.003	mg/L	0.0037	0.37%
Ti 334.940†	17.8	0.00037	mg/L	0.000202	54.53%
Ti 336.121†	-12.0	-0.00087	mg/L	0.000362	41.74%
Ti 337.279†	-9.2	-0.00109	mg/L	0.000502	46.23%
Tl 190.801†	29.4	5.201	mg/L	0.4234	8.14%
Tl 276.787†	526.5	4.804	mg/L	0.1290	2.69%
Tl 351.924†	780.1	5.200	mg/L	0.0662	1.27%
V 290.880†	2972.0	0.9791	mg/L	0.01693	1.73%
V 309.310†	6740.8	1.011	mg/L	0.0008	0.08%
V 310.230†	7690.9	0.9925	mg/L	0.01250	1.26%
QC value within limits for V 310.230 Recovery = 99.25%					
Zn 202.548†	362.5	1.023	mg/L	0.0296	2.89%
Zn 206.200†	369.2	0.9906	mg/L	0.01506	1.52%
Zn 213.857†	511.5	1.031	mg/L	0.0189	1.84%
QC value within limits for Zn 213.857 Recovery = 103.12%					
QC Failed. Continue with analysis.					

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 7/25/03 11:32:12 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	176703.3						4396.29	2.49%
Ag 328.068†	3.3	0.00333	mg/L	0.000346				10.38%
Ag 338.289†	2.4	0.00143	mg/L	0.002913				203.04%
Al 308.215†	59.2	0.07388	mg/L	0.011591				15.69%
Al 394.401†	29.6	0.03544	mg/L	0.012759				36.00%
Al 396.153†	151.6	0.04170	mg/L	0.006945				16.65%
As 188.979†	1.4	0.1444	mg/L	0.12555				86.96%
As 193.696†	0.8	0.1301	mg/L	0.12798				98.35%
As 197.197†	-0.5	-0.07823	mg/L	0.153427				196.12%
B 208.889†	2.0	0.02796	mg/L	0.035220				125.95%
B 249.677†	5.8	0.01139	mg/L	0.004162				36.53%
B 249.772†	16.6	0.01497	mg/L	0.000647				4.32%
Ba 233.527†	-14.9	-0.00571	mg/L	0.001158				20.27%
Ba 455.403†	118.9	0.00089	mg/L	0.000120				13.52%
Ba 493.408†	147.2	0.00123	mg/L	0.000860				70.06%
Be 234.861†	2.6	0.00028	mg/L	0.000218				77.74%
Be 313.042†	-90.7	-0.00130	mg/L	0.000145				11.13%
Be 313.107†	16.7	0.00043	mg/L	0.000141				33.01%
Ca 315.887†	42.6	0.02235	mg/L	0.000274				1.23%
Ca 317.933†	323.9	0.1508	mg/L	0.00772				5.12%
Cd 214.440†	1.4	0.00145	mg/L	0.001810				124.62%
Cd 226.502†	-1.0	-0.00166	mg/L	0.006130				370.01%
Cd 228.802†	-1.4	-0.00322	mg/L	0.002008				62.29%
Ce 413.380†	-9.5	-0.00825	mg/L	0.007372				89.35%
Ce 413.764†	-11.1	-0.00974	mg/L	0.005352				54.94%
Ce 418.660†	7.6	0.00435	mg/L	0.009597				220.39%
Co 228.616†	0.4	-0.00056	mg/L	0.003794				674.47%

Co 230.786†	-1.7	-0.00285	mg/L	0.001880	65.99%
Co 238.892†	-2.6	-0.00394	mg/L	0.002466	62.62%
Cr 205.560†	1.6	0.01011	mg/L	0.004614	45.65%
Cr 267.716†	-3.9	-0.00414	mg/L	0.000631	15.25%
Cr 283.563†	-2.3	-0.00065	mg/L	0.000928	142.62%
Cu 224.700†	-5.8	-0.02152	mg/L	0.004224	19.63%
Cu 324.752†	-62.7	-0.01125	mg/L	0.002727	24.24%
Cu 327.393†	-24.6	-0.01029	mg/L	0.003190	31.00%
Fe 238.204†	-18.0	-0.00798	mg/L	0.002567	32.16%
Fe 239.562†	-3.9	-0.00164	mg/L	0.002734	166.76%
Fe 259.939†	-22.9	-0.00422	mg/L	0.003036	71.97%
Fe 273.955†	-1.8	-0.00133	mg/L	0.003246	243.89%
K 766.490†	64.9	0.05257	mg/L	0.076016	144.61%
Li 610.362†	360.7	0.06358	mg/L	0.201238	316.52%
Li 670.784†	-22.0	-0.00047	mg/L	0.001420	304.86%
Mg 279.077†	-4.3	-0.01035	mg/L	0.010174	98.29%
Mg 280.271†	347.1	0.00631	mg/L	0.000679	10.75%
Mg 285.213†	30.3	0.00708	mg/L	0.001169	16.52%
Mn 257.610†	7.5	0.00018	mg/L	0.000296	164.46%
Mn 259.372†	72.0	0.00021	mg/L	0.000241	115.67%
Mn 260.568†	-2.3	-0.00021	mg/L	0.000574	268.11%
Mo 202.031†	13.5	1.091	mg/L	0.0416	3.81%
Mo 203.845†	40.4	1.003	mg/L	0.0258	2.57%
Mo 204.597†	74.5	1.003	mg/L	0.0324	3.23%
QC value within limits for Mo 204.597 Recovery = 100.26%					
Na 588.995†	1094.5	0.1809	mg/L	0.08701	48.11%
Na 589.592†	88.0	0.02349	mg/L	0.012550	53.44%
Ni 221.648†	-2.5	-0.02707	mg/L	0.014885	54.98%
Ni 231.604†	-0.1	-0.00066	mg/L	0.001517	231.18%
Ni 232.003†	0.5	-0.00404	mg/L	0.024676	611.17%
Pb 217.000†	1.8	0.07461	mg/L	0.036047	48.31%
Pb 220.353†	-0.8	-0.01355	mg/L	0.053840	397.32%
Sb 206.836†	50.3	1.735	mg/L	0.0370	2.13%
QC value less than the lower limit for Sb 206.836 Recovery = 86.77%					
Sb 217.582†	48.3	2.154	mg/L	0.0685	3.18%
QC value within limits for Sb 217.582 Recovery = 107.72%					
Sb 231.146†	50.5	2.071	mg/L	0.0975	4.71%
QC value within limits for Sb 231.146 Recovery = 103.53%					
Se 196.026†	1.5	0.1494	mg/L	0.20253	135.59%
Se 203.985†	-0.1	-0.07141	mg/L	0.142651	199.77%
Sn 189.927†	40.4	4.559	mg/L	0.2543	5.58%
Sn 235.485†	214.6	5.016	mg/L	0.1277	2.54%
Sn 283.998†	893.5	2.298	mg/L	0.0731	3.18%
QC value less than the lower limit for Sn 283.998 Recovery = 45.96%					
Sr 407.771†	145.8	0.00032	mg/L	0.000176	54.76%
Sr 421.552†	78.5	0.00041	mg/L	0.000048	11.60%
Sr 460.733†	-45.2	-0.02024	mg/L	0.027498	135.84%
Ti 334.940†	21886.0	0.9892	mg/L	0.00387	0.39%
Ti 336.121†	15715.2	1.006	mg/L	0.0036	0.36%
QC value within limits for Ti 336.121 Recovery = 100.55%					
Ti 337.279†	7430.2	0.9716	mg/L	0.00503	0.52%
Tl 190.801†	-0.7	-0.1132	mg/L	0.24911	220.02%
Tl 276.787†	-4.0	-0.03408	mg/L	0.079863	234.36%
Tl 351.924†	3.1	0.01742	mg/L	0.069696	400.05%
V 290.880†	-7.0	-0.00238	mg/L	0.000842	35.37%
V 309.310†	63.7	0.00970	mg/L	0.000721	7.42%
V 310.230†	176.9	0.02291	mg/L	0.003914	17.09%
Zn 202.548†	0.7	0.00299	mg/L	0.003481	116.27%
Zn 206.200†	-0.9	-0.00161	mg/L	0.002440	151.35%
Zn 213.857†	-1.5	-0.00230	mg/L	0.001627	70.68%

QC Failed. Continue with analysis.

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 7/25/03 11:35:58 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	173417.6						2724.62	1.57%
Ag 328.068†	0.7	0.00121	mg/L	0.001503				124.58%
Ag 338.289†	-2.7	0.00558	mg/L	0.000241				4.32%
Al 308.215†	69413.2	100.2	mg/L	0.45				0.45%
QC value within limits for Al 308.215 Recovery = 100.22%								
Al 394.401†	83032.4	99.26	mg/L	0.452				0.46%
Al 396.153†	204670.1	102.9	mg/L	0.65				0.63%
As 188.979†	3.2	0.2721	mg/L	0.19312				70.97%
As 193.696†	1.3	0.2240	mg/L	0.20609				92.01%
As 197.197†	-4.0	-0.3174	mg/L	0.20845				65.67%
B 208.889†	5.0	0.06413	mg/L	0.022095				34.45%
B 249.677†	-2.1	-0.00171	mg/L	0.006951				405.86%
B 249.772†	92.1	0.02662	mg/L	0.001461				5.49%
Ba 233.527†	20.4	-0.00053	mg/L	0.001729				323.86%
Ba 455.403†	89.4	0.00037	mg/L	0.000187				50.38%
Ba 493.408†	162.4	0.00030	mg/L	0.000284				96.11%
Be 234.861†	107.9	-0.00028	mg/L	0.002398				865.95%
Be 313.042†	-104.1	-0.00167	mg/L	0.000091				5.48%
Be 313.107†	8.1	0.00020	mg/L	0.000139				68.32%
Ca 315.887†	205585.7	106.8	mg/L	0.52				0.49%
QC value within limits for Ca 315.887 Recovery = 106.85%								
Ca 317.933†	214226.0	99.36	mg/L	0.463				0.47%
Cd 214.440†	-0.6	0.00193	mg/L	0.000363				18.83%
Cd 226.502†	1.5	-0.00257	mg/L	0.002308				89.65%
Cd 228.802†	-3.6	-0.00508	mg/L	0.006247				122.89%
Ce 413.380†	9.0	-0.01172	mg/L	0.009511				81.14%
Ce 413.764†	-7.4	-0.01440	mg/L	0.004739				32.91%
Ce 418.660†	-0.3	-0.00254	mg/L	0.018793				740.74%
Co 228.616†	-2.7	-0.00408	mg/L	0.000808				19.82%
Co 230.786†	4.5	0.00259	mg/L	0.006859				264.64%
Co 238.892†	115.1	0.01841	mg/L	0.010135				55.05%
Cr 205.560†	0.6	0.00295	mg/L	0.012522				424.31%
Cr 267.716†	-5.5	-0.00235	mg/L	0.004244				180.88%
Cr 283.563†	321.0	0.01828	mg/L	0.000424				2.32%
Cu 224.700†	-2.7	-0.02310	mg/L	0.007752				33.56%
Cu 324.752†	-92.5	-0.01576	mg/L	0.001038				6.58%
Cu 327.393†	-23.6	-0.01143	mg/L	0.001175				10.28%
Fe 238.204†	175915.6	98.83	mg/L	0.510				0.52%
Fe 239.562†	104053.8	100.3	mg/L	0.36				0.36%
Fe 259.939†	357168.3	100.2	mg/L	0.74				0.74%
Fe 273.955†	52345.1	107.1	mg/L	0.50				0.47%
QC value within limits for Fe 273.955 Recovery = 107.14%								
K 766.490†	120536.6	97.59	mg/L	0.345				0.35%
Li 610.362†	649.2	0.08360	mg/L	0.126319				151.10%
Li 670.784†	149.9	0.00563	mg/L	0.001910				33.91%
Mg 279.077†	23848.6	61.17	mg/L	0.329				0.54%
QC value within limits for Mg 279.077 Recovery = 101.95%								
Mg 280.271†	3183016.8	57.50	mg/L	0.415				0.72%
Mg 285.213†	258049.4	59.49	mg/L	0.401				0.67%
Mn 257.610†	11.4	-0.00200	mg/L	0.001026				51.42%
Mn 259.372†	1536.9	-0.00522	mg/L	0.001196				22.93%
Mn 260.568†	19.0	-0.00398	mg/L	0.000630				15.85%
Mo 202.031†	9.5	0.5969	mg/L	0.15853				26.56%
Mo 203.845†	2.9	0.03439	mg/L	0.030402				88.41%
Mo 204.597†	0.6	-0.00350	mg/L	0.014573				416.91%
Na 588.995†	619080.7	102.3	mg/L	0.33				0.32%
Na 589.592†	372121.2	99.34	mg/L	0.542				0.55%
QC value within limits for Na 589.592 Recovery = 99.34%								
Ni 221.648†	0.9	0.01774	mg/L	0.026497				149.41%
Ni 231.604†	0.1	-0.00145	mg/L	0.008897				611.65%
Ni 232.003†	0.5	0.00604	mg/L	0.018364				304.23%
Pb 217.000†	10.0	0.05774	mg/L	0.038218				66.19%
Pb 220.353†	1.1	0.1199	mg/L	0.03911				32.60%
Sb 206.836†	-0.0	-0.02410	mg/L	0.159048				659.95%
Sb 217.582†	-0.8	-0.07078	mg/L	0.026155				36.95%
Sb 231.146†	1.2	0.04704	mg/L	0.085352				181.43%
Se 196.026†	0.9	0.04749	mg/L	0.330328				695.61%

Se 203.985†	1.3	-0.02874	mg/L	0.114388	398.04%
Sn 189.927†	1.1	0.1041	mg/L	0.12190	117.07%
Sn 235.485†	1881.7	6.619	mg/L	0.3907	5.90%
Sn 283.998†	-60.6	-0.04370	mg/L	0.023393	53.54%
Sr 407.771†	619.3	-0.00056	mg/L	0.000087	15.42%
Sr 421.552†	287.8	-0.00074	mg/L	0.000122	16.35%
Sr 460.733†	-20.9	-0.01713	mg/L	0.006595	38.49%
Ti 334.940†	-31.2	0.00086	mg/L	0.000209	24.47%
Ti 336.121†	48.8	-0.00013	mg/L	0.001034	794.05%
Ti 337.279†	6.8	-0.00051	mg/L	0.000611	120.17%
Tl 190.801†	0.7	0.1302	mg/L	0.13472	103.45%
Tl 276.787†	301.2	1.368	mg/L	0.2997	21.91%
Tl 351.924†	2.6	0.00919	mg/L	0.017359	188.86%
V 290.880†	-102.6	-0.02572	mg/L	0.002557	9.94%
V 309.310†	1821.7	-0.00093	mg/L	0.001403	151.04%
V 310.230†	204.6	0.02445	mg/L	0.003020	12.36%
Zn 202.548†	3.6	0.00684	mg/L	0.008276	120.99%
Zn 206.200†	-1.8	0.00080	mg/L	0.005240	654.23%
Zn 213.857†	9.9	0.01151	mg/L	0.002071	18.00%

All analytes passed QC.

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 7/25/03 11:39:53 AM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	179745.2						4252.85	2.37%
Ag 328.068†	-0.0	0.00000	mg/L	0.000912	0.00000	mg/kg	0.000000	0.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	9.7	0.00304	mg/L	0.000458	0.000	mg/kg	0.0000	0.00%
Al 308.215†	44.3	0.06365	mg/L	0.011671	0.000	mg/kg	0.0000	0.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	35.6	0.04273	mg/L	0.006348	0.000	mg/kg	0.0000	0.00%
Al 396.153†	58.8	0.02947	mg/L	0.014696	0.000	mg/kg	0.0000	0.00%
As 188.979†	2.3	0.2415	mg/L	0.06691	0.000	mg/kg	0.0000	0.00%
As 193.696†	1.8	0.2800	mg/L	0.13991	0.000	mg/kg	0.0000	0.00%
QC value greater than the upper limit for As 193.696 Recovery = Not calculated								
As 197.197†	-2.0	-0.2708	mg/L	0.00561	0.000	mg/kg	0.0000	0.00%
B 208.889†	2.5	0.03456	mg/L	0.016662	0.000	mg/kg	0.0000	0.00%
B 249.677†	0.8	0.00153	mg/L	0.007588	0.00000	mg/kg	0.000000	0.00%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	5.3	0.00473	mg/L	0.001144	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	6.2	0.00267	mg/L	0.000754	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	-58.4	-0.00050	mg/L	0.000077	0.000	mg/kg	0.0000	0.00%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	6.5	0.00004	mg/L	0.000369	0.00000	mg/kg	0.000000	0.00%
Be 234.861†	2.7	0.00020	mg/L	0.000150	0.000	mg/kg	0.0000	0.00%
Be 313.042†	-110.6	-0.00157	mg/L	0.000090	0.000	mg/kg	0.0000	0.00%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	2.2	0.00006	mg/L	0.000068	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	0.2	0.00014	mg/L	0.009850	0.00000	mg/kg	0.000000	0.00%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	287.5	0.1333	mg/L	0.01329	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	1.7	0.00161	mg/L	0.002255	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	-0.0	-0.00008	mg/L	0.002297	0.00000	mg/kg	0.000000	0.00%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	-2.8	-0.00645	mg/L	0.003729	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-5.3	-0.00451	mg/L	0.002900	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	-5.1	-0.00428	mg/L	0.006961	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	-3.2	-0.00200	mg/L	0.003952	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-2.9	-0.00425	mg/L	0.002695	0.000	mg/kg	0.0000	0.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-6.2	-0.00892	mg/L	0.004051	0.000	mg/kg	0.0000	0.00%
Co 238.892†	0.8	0.00143	mg/L	0.003916	0.00000	mg/kg	0.000000	0.00%

SIF full

Cr 205.560†	1.6	0.01066 mg/L	0.007105	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	-1.3	-0.00139 mg/L	0.002780	0.00000 mg/kg	0.000000	0.00%
Cr 283.563†	-4.9	-0.00100 mg/L	0.000392	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cr 283.563 Recovery = Not calculated						
Cu 224.700†	-9.1	-0.02836 mg/L	0.002762	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	-99.5	-0.01417 mg/L	0.000539	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Cu 327.393†	-40.7	-0.01336 mg/L	0.002166	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	-84.2	-0.04717 mg/L	0.008614	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	-46.2	-0.04445 mg/L	0.009840	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	-164.7	-0.04608 mg/L	0.007752	0.000 mg/kg	0.0000	0.00%
QC value within limits for Fe 259.939 Recovery = Not calculated						
Fe 273.955†	-20.9	-0.04277 mg/L	0.008931	0.000 mg/kg	0.0000	0.00%
K 766.490†	37.9	0.03072 mg/L	0.044914	0.00000 mg/kg	0.000000	0.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 610.362†	-303.2	-0.05603 mg/L	0.192578	0.00000 mg/kg	0.000000	0.00%
Li 670.784†	-195.1	-0.00558 mg/L	0.002156	0.000 mg/kg	0.0000	0.00%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	2.1	0.00549 mg/L	0.010185	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mg 280.271†	973.4	0.01759 mg/L	0.005165	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	81.7	0.01885 mg/L	0.005276	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	-18.9	-0.00137 mg/L	0.000111	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 259.372†	-17.3	-0.00127 mg/L	0.000130	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	-17.0	-0.00204 mg/L	0.000459	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	-0.2	-0.01506 mg/L	0.009494	0.000 mg/kg	0.0000	0.00%
Mo 203.845†	1.0	0.02388 mg/L	0.009783	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	0.1	0.00095 mg/L	0.013559	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Mo 204.597 Recovery = Not calculated						
Na 588.995†	1556.9	0.2573 mg/L	0.07900	0.000 mg/kg	0.0000	0.00%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated						
Na 589.592†	134.8	0.03599 mg/L	0.037007	0.000 mg/kg	0.0000	0.00%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 221.648†	-1.2	-0.01259 mg/L	0.029776	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	-1.7	-0.00515 mg/L	0.001715	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Ni 232.003†	-2.3	-0.01260 mg/L	0.013243	0.00000 mg/kg	0.000000	0.00%
Pb 217.000†	1.6	0.06469 mg/L	0.035697	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	-0.3	-0.00582 mg/L	0.028482	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-1.0	-0.03635 mg/L	0.008254	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Sb 217.582†	-1.0	-0.04337 mg/L	0.053827	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	-0.6	-0.02556 mg/L	0.042821	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	1.2	0.1240 mg/L	0.27365	0.00000 mg/kg	0.000000	0.00%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Se 203.985†	-1.7	-0.1770 mg/L	0.20809	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	1.4	0.1584 mg/L	0.09585	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	-1.4	-0.01823 mg/L	0.115836	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Sn 235.485 Recovery = Not calculated						
Sn 283.998†	8.7	0.01762 mg/L	0.010538	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sn 283.998 Recovery = Not calculated						
Sr 407.771†	-70.0	-0.00021 mg/L	0.000282	0.00000 mg/kg	0.000000	0.00%
Sr 421.552†	-10.8	-0.00008 mg/L	0.000023	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-31.6	-0.01461 mg/L	0.036598	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Sr 460.733 Recovery = Not calculated						
Ti 334.940†	0.5	0.00002 mg/L	0.000194	0.00000 mg/kg	0.000000	0.00%
Ti 336.121†	-13.7	-0.00088 mg/L	0.000022	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ti 336.121 Recovery = Not calculated						
Ti 337.279†	-10.5	-0.00137 mg/L	0.000610	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	0.0	0.00037 mg/L	0.168941	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 276.787†	-9.3	-0.08554 mg/L	0.028594	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	0.8	0.00517 mg/L	0.038618	0.00000 mg/kg	0.000000	0.00%
V 290.880†	-13.6	-0.00447 mg/L	0.002342	0.000 mg/kg	0.0000	0.00%
V 309.310†	59.7	0.00892 mg/L	0.000854	0.000 mg/kg	0.0000	0.00%
V 310.230†	170.0	0.02197 mg/L	0.005443	0.000 mg/kg	0.0000	0.00%
QC value within limits for V 310.230 Recovery = Not calculated						
Zn 202.548†	-5.4	-0.01515 mg/L	0.003404	0.000 mg/kg	0.0000	0.00%

Zn 206.200†	-7.5	-0.02012 mg/L	0.003164	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	-10.4	-0.02094 mg/L	0.001237	0.000 mg/kg	0.0000	0.00%

QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Analysis Begun

Start Time: 7/25/03 11:42:44 AM
Logged In Analyst: KSWAN
Spectrometer Model: Optima 3300 DV
Plasma On Time: 7/25/03 8:41:55 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\KSWAN\Sample Information\0305007 072503 01-09.sif
Results Data Set: 0305007 072503 IH(2)3050B
Results Library: D:\KSWAN\Results\Results.mdb

Sequence No.: 1
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 7/25/03 11:42:44 AM
Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 7/25/03 11:43:11 AM
Logged In Analyst: KSWAN
Spectrometer Model: Optima 3300 DV
Plasma On Time: 7/25/03 8:41:55 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\KSWAN\Sample Information\0305007 072503 01-09.sif
Results Data Set: 0305007 072503 IH(2)3050B
Results Library: D:\KSWAN\Results\Results.mdb

Sequence No.: 6
Sample ID: RLC
Analyst:
Sample Wt: 0 g
Dilution: 1X
Autosampler Location: 19
Date Collected: 7/25/03 11:43:11 AM
Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: RLC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	176872.8						2919.76	1.65%
Ag 328.068†	1109.5	0.1881	mg/L	0.00231	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	599.9	0.1876	mg/L	0.00362	0.000	mg/kg	0.0000	0.00%
Al 308.215†	381.8	0.5488	mg/L	0.01686	0.000	mg/kg	0.0000	0.00%
Al 394.401†	422.1	0.5051	mg/L	0.00691	0.000	mg/kg	0.0000	0.00%
Al 396.153†	1033.9	0.5164	mg/L	0.00860	0.000	mg/kg	0.0000	0.00%
As 188.979†	6.0	0.6460	mg/L	0.02860	0.000	mg/kg	0.0000	0.00%
As 193.696†	5.1	0.8078	mg/L	0.37188	0.000	mg/kg	0.0000	0.00%
As 197.197†	4.5	0.6160	mg/L	0.06323	0.000	mg/kg	0.0000	0.00%
B 208.889†	9.3	0.1297	mg/L	0.02130	0.000	mg/kg	0.0000	0.00%
B 249.677†	52.4	0.1015	mg/L	0.00098	0.000	mg/kg	0.0000	0.00%
B 249.772†	120.8	0.1067	mg/L	0.00180	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	17.4	0.00748	mg/L	0.002004	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	608.7	0.00497	mg/L	0.000400	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	582.6	0.00514	mg/L	0.000440	0.000	mg/kg	0.0000	0.00%
Be 234.861†	76.5	0.00548	mg/L	0.000384	0.000	mg/kg	0.0000	0.00%
Be 313.042†	243.3	0.00342	mg/L	0.000082	0.000	mg/kg	0.0000	0.00%
Be 313.107†	190.3	0.00511	mg/L	0.000205	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	1014.9	0.5274	mg/L	0.00688	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	1338.3	0.6207	mg/L	0.01156	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	15.6	0.01465	mg/L	0.001043	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	8.8	0.01322	mg/L	0.003721	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	16.2	0.00807	mg/L	0.006606	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-14.4	-0.01241	mg/L	0.003138	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	1.1	0.00072	mg/L	0.014303	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	-16.1	-0.00999	mg/L	0.015229	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	33.6	0.04845	mg/L	0.003745	0.000	mg/kg	0.0000	0.00%
Co 230.786†	34.3	0.04892	mg/L	0.001892	0.000	mg/kg	0.0000	0.00%
Co 238.892†	27.1	0.04394	mg/L	0.004423	0.000	mg/kg	0.0000	0.00%

Cr 205.560†	2.1	0.01417 mg/L	0.010903	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	6.7	-0.00695 mg/L	0.004215	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	47.5	0.00967 mg/L	0.000897	0.000 mg/kg	0.0000	0.00%
Cu 224.700†	9.0	0.02747 mg/L	0.003688	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	247.9	0.03506 mg/L	0.002456	0.000 mg/kg	0.0000	0.00%
Cu 327.393†	100.7	0.03291 mg/L	0.001758	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	798.6	0.4496 mg/L	0.00784	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	479.0	0.4629 mg/L	0.01317	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	1622.1	0.4560 mg/L	0.01080	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	234.8	0.4812 mg/L	0.00362	0.000 mg/kg	0.0000	0.00%
K 766.490†	748.3	0.6059 mg/L	0.02819	0.000 mg/kg	0.0000	0.00%
Li 610.362†	499.9	0.08995 mg/L	0.109536	0.00000 mg/kg	0.000000	0.00%
Li 670.784†	1628.4	0.04679 mg/L	0.001112	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	201.1	0.5160 mg/L	0.01874	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	28373.5	0.5126 mg/L	0.00129	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	2252.3	0.5193 mg/L	0.00924	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	53.2	0.00380 mg/L	0.000078	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	63.4	0.00376 mg/L	0.000252	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	27.1	0.00320 mg/L	0.000861	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	1.8	0.1476 mg/L	0.07596	0.000 mg/kg	0.0000	0.00%
Mo 203.845†	5.5	0.1366 mg/L	0.02692	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	7.1	0.09588 mg/L	0.008567	0.000 mg/kg	0.0000	0.00%
Na 588.995†	7800.5	1.289 mg/L	0.0274	0.000 mg/kg	0.0000	0.00%
Na 589.592†	3975.4	1.061 mg/L	0.0290	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	11.1	0.1210 mg/L	0.01834	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	28.9	0.09007 mg/L	0.008302	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	20.8	0.1083 mg/L	0.01613	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	2.8	0.1102 mg/L	0.04139	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	5.1	0.1103 mg/L	0.04672	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	11.7	0.4028 mg/L	0.07550	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	11.1	0.4927 mg/L	0.05734	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	12.8	0.5196 mg/L	0.01736	0.000 mg/kg	0.0000	0.00%
Se 196.026†	6.2	0.6386 mg/L	0.12173	0.000 mg/kg	0.0000	0.00%
Se 203.985†	3.0	0.2859 mg/L	0.06940	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	2.1	0.2340 mg/L	0.17850	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	9.5	0.05768 mg/L	0.078561	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	22.5	0.05188 mg/L	0.002946	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	1535.5	0.00464 mg/L	0.000226	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	728.2	0.00489 mg/L	0.000162	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-28.0	-0.01286 mg/L	0.021742	0.00000 mg/kg	0.000000	0.00%
Ti 334.940†	225.6	0.01020 mg/L	0.000687	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	164.6	0.01049 mg/L	0.000719	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	67.2	0.00878 mg/L	0.000694	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	0.9	0.1501 mg/L	0.10183	0.000 mg/kg	0.0000	0.00%
Tl 276.787†	-1.0	-0.02019 mg/L	0.033607	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	8.2	0.05533 mg/L	0.023737	0.000 mg/kg	0.0000	0.00%
V 290.880†	147.8	0.04879 mg/L	0.002678	0.000 mg/kg	0.0000	0.00%
V 309.310†	414.6	0.06029 mg/L	0.003103	0.000 mg/kg	0.0000	0.00%
V 310.230†	580.6	0.07499 mg/L	0.005269	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	165.8	0.4709 mg/L	0.01461	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	166.8	0.4469 mg/L	0.01301	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	234.1	0.4730 mg/L	0.00896	0.000 mg/kg	0.0000	0.00%

==========

Sequence No.: 7
Sample ID: B307012-BLK1
Analyst:
Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 21
Date Collected: 7/25/03 11:46:54 AM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: B307012-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	177302.6						2644.37	1.49%
Ag 328.068†	8.7	0.00149	mg/L	0.001137	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	4.0	0.00123	mg/L	0.001516	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	51.8	0.07464	mg/L	0.008698	0.000	mg/kg	0.0000	0.00%
Al 394.401†	26.7	0.03210	mg/L	0.004917	0.000	mg/kg	0.0000	0.00%
Al 396.153†	79.2	0.04016	mg/L	0.007612	0.000	mg/kg	0.0000	0.00%

As 188.979†	0.6	0.05960 mg/L	0.142469	0.00000 mg/kg	0.000000	0.00%
As 193.696†	1.9	0.3008 mg/L	0.23601	0.000 mg/kg	0.0000	0.00%
As 197.197†	0.1	0.01034 mg/L	0.265544	0.00000 mg/kg	0.000000	0.00%
B 208.889†	8.8	0.1225 mg/L	0.03225	0.000 mg/kg	0.0000	0.00%
B 249.677†	52.6	0.1019 mg/L	0.00470	0.000 mg/kg	0.0000	0.00%
B 249.772†	120.6	0.1067 mg/L	0.00990	0.000 mg/kg	0.0000	0.00%
Ba 233.527†	4.7	0.00203 mg/L	0.000684	0.000 mg/kg	0.0000	0.00%
Ba 455.403†	74.5	0.00060 mg/L	0.000092	0.000 mg/kg	0.0000	0.00%
Ba 493.408†	109.3	0.00096 mg/L	0.000789	0.000 mg/kg	0.0000	0.00%
Be 234.861†	5.9	0.00043 mg/L	0.000049	0.000 mg/kg	0.0000	0.00%
Be 313.042†	-121.1	-0.00172 mg/L	0.000072	0.000 mg/kg	0.0000	0.00%
Be 313.107†	2.5	0.00007 mg/L	0.000105	0.00000 mg/kg	0.000000	0.00%
Ca 315.887†	258.2	0.1342 mg/L	0.00365	0.000 mg/kg	0.0000	0.00%
Ca 317.933†	549.1	0.2546 mg/L	0.00474	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	3.2	0.00295 mg/L	0.000852	0.000 mg/kg	0.0000	0.00%
Cd 226.502†	1.7	0.00258 mg/L	0.002273	0.00000 mg/kg	0.000000	0.00%
Cd 228.802†	-1.3	-0.00496 mg/L	0.003935	0.000 mg/kg	0.0000	0.00%
Ce 413.380†	-4.7	-0.00396 mg/L	0.006024	0.00000 mg/kg	0.000000	0.00%
Ce 413.764†	-3.2	-0.00270 mg/L	0.006180	0.00000 mg/kg	0.000000	0.00%
Ce 418.660†	-4.4	-0.00272 mg/L	0.016275	0.00000 mg/kg	0.000000	0.00%
Co 228.616†	-1.7	-0.00239 mg/L	0.001377	0.000 mg/kg	0.0000	0.00%
Co 230.786†	0.2	0.00028 mg/L	0.002784	0.00000 mg/kg	0.000000	0.00%
Co 238.892†	1.2	0.00212 mg/L	0.008111	0.00000 mg/kg	0.000000	0.00%
Cr 205.560†	0.9	0.00607 mg/L	0.001452	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	-0.2	-0.00025 mg/L	0.004050	0.00000 mg/kg	0.000000	0.00%
Cr 283.563†	-2.6	-0.00050 mg/L	0.001742	0.00000 mg/kg	0.000000	0.00%
Cu 224.700†	-8.2	-0.02548 mg/L	0.009250	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	-81.1	-0.01149 mg/L	0.000326	0.000 mg/kg	0.0000	0.00%
Cu 327.393†	-40.2	-0.01315 mg/L	0.001707	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	-94.2	-0.05282 mg/L	0.001929	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	-49.9	-0.04800 mg/L	0.003418	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	-183.6	-0.05143 mg/L	0.000654	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	-28.5	-0.05830 mg/L	0.002621	0.000 mg/kg	0.0000	0.00%
K 766.490†	71.2	0.05765 mg/L	0.064865	0.00000 mg/kg	0.000000	0.00%
Li 610.362†	264.9	0.04853 mg/L	0.123497	0.00000 mg/kg	0.000000	0.00%
Li 670.784†	-138.4	-0.00396 mg/L	0.000903	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	10.2	0.02626 mg/L	0.007965	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	1915.2	0.03460 mg/L	0.001033	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	151.8	0.03500 mg/L	0.000635	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	-13.1	-0.00095 mg/L	0.000303	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	-10.4	-0.00066 mg/L	0.000385	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	-12.7	-0.00153 mg/L	0.000532	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	-1.7	-0.1411 mg/L	0.08313	0.000 mg/kg	0.0000	0.00%
Mo 203.845†	2.6	0.06356 mg/L	0.030799	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	-0.9	-0.01165 mg/L	0.014321	0.00000 mg/kg	0.000000	0.00%
Na 588.995†	1779.6	0.2941 mg/L	0.03605	0.000 mg/kg	0.0000	0.00%
Na 589.592†	467.7	0.1249 mg/L	0.01789	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	-2.3	-0.02550 mg/L	0.017241	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	0.1	0.00024 mg/L	0.004876	0.00000 mg/kg	0.000000	0.00%
Ni 232.003†	-4.2	-0.02218 mg/L	0.008326	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	0.8	0.03108 mg/L	0.049125	0.00000 mg/kg	0.000000	0.00%
Pb 220.353†	0.6	0.01293 mg/L	0.052673	0.00000 mg/kg	0.000000	0.00%
Sb 206.836†	-3.3	-0.1138 mg/L	0.02774	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	-0.9	-0.04100 mg/L	0.053348	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	2.6	0.1081 mg/L	0.09154	0.000 mg/kg	0.0000	0.00%
Se 196.026†	-0.1	-0.01289 mg/L	0.155953	0.00000 mg/kg	0.000000	0.00%
Se 203.985†	0.3	0.03103 mg/L	0.220758	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	0.7	0.07892 mg/L	0.115917	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	-4.3	-0.07966 mg/L	0.080853	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	10.9	0.02545 mg/L	0.001080	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	41.8	0.00012 mg/L	0.000208	0.00000 mg/kg	0.000000	0.00%
Sr 421.552†	39.9	0.00026 mg/L	0.000041	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-77.4	-0.03588 mg/L	0.036727	0.000 mg/kg	0.0000	0.00%
Ti 334.940†	19.6	0.00088 mg/L	0.000328	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	3.5	0.00021 mg/L	0.000514	0.00000 mg/kg	0.000000	0.00%
Ti 337.279†	0.5	0.00006 mg/L	0.000889	0.00000 mg/kg	0.000000	0.00%
Tl 190.801†	0.8	0.1420 mg/L	0.15166	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	-7.0	-0.06514 mg/L	0.065451	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	-0.7	-0.00455 mg/L	0.049394	0.00000 mg/kg	0.000000	0.00%
V 290.880†	-8.4	-0.00276 mg/L	0.001536	0.000 mg/kg	0.0000	0.00%

V 309.310†	58.6	0.00867 mg/L	0.000785	0.000 mg/kg	0.0000	0.00%
V 310.230†	146.2	0.01889 mg/L	0.005450	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	3.6	0.01034 mg/L	0.002690	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	4.9	0.01324 mg/L	0.002560	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	3.6	0.00733 mg/L	0.004498	0.000 mg/kg	0.0000	0.00%

Sequence No.: 8 **Autosampler Location: 5**
Sample ID: wash **Date Collected: 7/25/03 11:50:39 AM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	181420.0						925.25	0.51%
Ag 328.068†	-2.7	-0.00046	mg/L	0.001220	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	1.2	0.00036	mg/L	0.002611	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	24.7	0.03559	mg/L	0.013960	0.000	mg/kg	0.0000	0.00%
Al 394.401†	-4.5	-0.00493	mg/L	0.011871	0.00000	mg/kg	0.000000	0.00%
Al 396.153†	-2.5	-0.00104	mg/L	0.007374	0.00000	mg/kg	0.000000	0.00%
As 188.979†	1.2	0.1311	mg/L	0.01925	0.000	mg/kg	0.0000	0.00%
As 193.696†	1.0	0.1550	mg/L	0.12150	0.000	mg/kg	0.0000	0.00%
As 197.197†	0.3	0.03936	mg/L	0.253367	0.00000	mg/kg	0.000000	0.00%
B 208.889†	3.3	0.04659	mg/L	0.018238	0.000	mg/kg	0.0000	0.00%
B 249.677†	-0.4	-0.00070	mg/L	0.005632	0.00000	mg/kg	0.000000	0.00%
B 249.772†	4.9	0.00434	mg/L	0.000834	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	0.8	0.00033	mg/L	0.000445	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	-67.2	-0.00056	mg/L	0.000074	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	17.9	0.00016	mg/L	0.000017	0.000	mg/kg	0.0000	0.00%
Be 234.861†	6.4	0.00046	mg/L	0.000040	0.000	mg/kg	0.0000	0.00%
Be 313.042†	-112.9	-0.00160	mg/L	0.000075	0.000	mg/kg	0.0000	0.00%
Be 313.107†	2.7	0.00007	mg/L	0.000092	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	-58.8	-0.03054	mg/L	0.002036	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	212.1	0.09831	mg/L	0.004460	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	0.8	0.00071	mg/L	0.001751	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	0.8	0.00127	mg/L	0.001585	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	-3.4	-0.00553	mg/L	0.002501	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-8.1	-0.00690	mg/L	0.009168	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	-0.9	-0.00080	mg/L	0.005634	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	-16.6	-0.01019	mg/L	0.010709	0.000	mg/kg	0.0000	0.00%
Co 228.616†	-2.4	-0.00344	mg/L	0.000775	0.000	mg/kg	0.0000	0.00%
Co 230.786†	-2.8	-0.00394	mg/L	0.008056	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	-2.8	-0.00445	mg/L	0.007215	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	1.1	0.00747	mg/L	0.008451	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-7.0	-0.00734	mg/L	0.004450	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	-8.6	-0.00176	mg/L	0.000947	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	-7.9	-0.02467	mg/L	0.004664	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-105.3	-0.01499	mg/L	0.000451	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	-43.8	-0.01437	mg/L	0.001521	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	-139.3	-0.07820	mg/L	0.004285	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	-79.2	-0.07637	mg/L	0.002262	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	-269.3	-0.07552	mg/L	0.001325	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	-34.7	-0.07096	mg/L	0.005011	0.000	mg/kg	0.0000	0.00%
K 766.490†	-2.5	-0.00199	mg/L	0.033680	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	-740.4	-0.1363	mg/L	0.03620	0.000	mg/kg	0.0000	0.00%
Li 670.784†	-201.3	-0.00577	mg/L	0.001537	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	-8.1	-0.02079	mg/L	0.009339	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	-37.0	-0.00067	mg/L	0.000192	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	-6.4	-0.00148	mg/L	0.000538	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	-18.4	-0.00133	mg/L	0.000055	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	-19.2	-0.00134	mg/L	0.000311	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	-18.6	-0.00224	mg/L	0.000153	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.4	-0.03387	mg/L	0.083023	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	-0.2	-0.00461	mg/L	0.043337	0.00000	mg/kg	0.000000	0.00%
Mo 204.597†	-0.6	-0.00868	mg/L	0.019936	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	1050.8	0.1736	mg/L	0.02511	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-191.0	-0.05100	mg/L	0.019369	0.000	mg/kg	0.0000	0.00%

Ni 221.648†	-0.5	-0.00570 mg/L	0.002678	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	-3.6	-0.01135 mg/L	0.004141	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	-2.4	-0.01313 mg/L	0.029335	0.00000 mg/kg	0.000000	0.00%
Pb 217.000†	-1.9	-0.07629 mg/L	0.100760	0.00000 mg/kg	0.000000	0.00%
Pb 220.353†	1.9	0.04068 mg/L	0.022641	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	-1.7	-0.05849 mg/L	0.030938	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	-1.3	-0.06006 mg/L	0.037359	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	-1.5	-0.06028 mg/L	0.060130	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	-0.1	-0.00832 mg/L	0.110134	0.00000 mg/kg	0.000000	0.00%
Se 203.985†	0.3	0.03323 mg/L	0.115625	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	-0.1	-0.00894 mg/L	0.100002	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	-4.5	-0.07989 mg/L	0.073385	0.000 mg/kg	0.0000	0.00%
Sn 283.998†	6.6	0.01365 mg/L	0.010264	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	-133.3	-0.00041 mg/L	0.000101	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	-19.3	-0.00013 mg/L	0.000145	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	7.7	0.00359 mg/L	0.006862	0.00000 mg/kg	0.000000	0.00%
Ti 334.940†	-1.5	-0.00007 mg/L	0.000118	0.00000 mg/kg	0.000000	0.00%
Ti 336.121†	-11.4	-0.00073 mg/L	0.000535	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	-9.5	-0.00124 mg/L	0.000524	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	-0.0	-0.00232 mg/L	0.185773	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	-14.9	-0.1362 mg/L	0.04161	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	0.4	0.00284 mg/L	0.039982	0.00000 mg/kg	0.000000	0.00%
V 290.880†	-11.6	-0.00383 mg/L	0.001505	0.000 mg/kg	0.0000	0.00%
V 309.310†	62.6	0.00946 mg/L	0.000773	0.000 mg/kg	0.0000	0.00%
V 310.230†	131.0	0.01693 mg/L	0.000856	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	-5.4	-0.01512 mg/L	0.005159	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	-8.4	-0.02249 mg/L	0.003254	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	-9.6	-0.01940 mg/L	0.001523	0.000 mg/kg	0.0000	0.00%

Sequence No.: 9 **Autosampler Location: 29**
Sample ID: 0305007-01 **Date Collected: 7/25/03 11:54:26 AM**
Analyst:
Sample Wt: 0.5607 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: 0305007-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	174715.1						1925.49	1.10%
Ag 328.068†	20.2	0.00688	mg/L	0.000746	1.228	mg/kg	0.1330	10.84%
Ag 338.289†	-46.1	0.01069	mg/L	0.001187	1.907	mg/kg	0.2116	11.10%
Al 308.215†	11202.5	16.17	mg/L	0.125	2885	mg/kg	22.2	0.77%
Al 394.401†	13346.4	16.01	mg/L	0.248	2855	mg/kg	44.2	1.55%
Al 396.153†	32615.6	16.40	mg/L	0.255	2924	mg/kg	45.5	1.56%
As 188.979†	6.1	0.6000	mg/L	0.12544	107.0	mg/kg	22.37	20.91%
As 193.696†	3.9	0.6481	mg/L	0.12026	115.6	mg/kg	21.45	18.56%
As 197.197†	-0.9	0.1375	mg/L	0.28258	24.53	mg/kg	50.397	205.48%
B 208.889†	16.4	0.1986	mg/L	0.04074	35.42	mg/kg	7.266	20.51%
B 249.677†	64.1	0.1348	mg/L	0.00146	24.04	mg/kg	0.261	1.08%
B 249.772†	453.7	0.1931	mg/L	0.00273	34.44	mg/kg	0.487	1.41%
Ba 233.527†	720.8	0.2776	mg/L	0.00471	49.51	mg/kg	0.840	1.70%
Ba 455.403†	34684.6	0.2867	mg/L	0.00559	51.14	mg/kg	0.996	1.95%
Ba 493.408†	32273.0	0.2858	mg/L	0.00544	50.97	mg/kg	0.970	1.90%
Be 234.861†	458.4	0.00341	mg/L	0.000610	0.6074	mg/kg	0.10871	17.90%
Be 313.042†	44.7	0.00040	mg/L	0.000079	0.07098	mg/kg	0.014009	19.74%
Be 313.107†	88.4	0.00235	mg/L	0.000055	0.4192	mg/kg	0.00974	2.32%
Ca 315.887†	193145.2	100.4	mg/L	0.53	17900	mg/kg	94.0	0.52%
Ca 317.933†	201754.5	93.58	mg/L	0.544	16690	mg/kg	97.0	0.58%
Cd 214.440†	55.3	0.04761	mg/L	0.004234	8.492	mg/kg	0.7552	8.89%
Cd 226.502†	41.5	0.03765	mg/L	0.001888	6.715	mg/kg	0.3368	5.02%
Cd 228.802†	29.5	0.03066	mg/L	0.002853	5.468	mg/kg	0.5089	9.31%
Ce 413.380†	177.7	0.07677	mg/L	0.007043	13.69	mg/kg	1.256	9.17%
Ce 413.764†	88.0	0.05404	mg/L	0.007544	9.637	mg/kg	1.3455	13.96%
Ce 418.660†	128.8	0.06452	mg/L	0.033198	11.51	mg/kg	5.921	51.46%
Co 228.616†	17.6	0.01943	mg/L	0.003330	3.466	mg/kg	0.5938	17.13%
Co 230.786†	25.9	0.02432	mg/L	0.004557	4.338	mg/kg	0.8127	18.73%
Co 238.892†	438.3	0.08678	mg/L	0.029318	15.48	mg/kg	5.229	33.78%
Cr 205.560†	119.3	0.7987	mg/L	0.02295	142.5	mg/kg	4.09	2.87%

Cr 267.716†	735.7	0.7799	mg/L	0.00940	139.1	mg/kg	1.68	1.20%
Cr 283.563†	5052.3	0.8682	mg/L	0.02258	154.8	mg/kg	4.03	2.60%
Cu 224.700†	209.5	0.5989	mg/L	0.01644	106.8	mg/kg	2.93	2.74%
Cu 324.752†	4531.9	0.6394	mg/L	0.00768	114.0	mg/kg	1.37	1.20%
Cu 327.393†	1945.9	0.6351	mg/L	0.00681	113.3	mg/kg	1.22	1.07%
Fe 238.204†	637072.2	357.9	mg/L	1.93	63830	mg/kg	344.8	0.54%
Fe 239.562†	381763.1	368.1	mg/L	2.04	65660	mg/kg	363.4	0.55%
Fe 259.939†	1290178.7	362.0	mg/L	2.24	64560	mg/kg	399.3	0.62%
Fe 273.955†	194656.6	398.4	mg/L	2.39	71050	mg/kg	426.9	0.60%
K 766.490†	1590.2	1.288	mg/L	0.0212	229.6	mg/kg	3.78	1.65%
Li 610.362†	152.7	-0.03262	mg/L	0.080438	-5.819	mg/kg	14.3459	246.56%
Li 670.784†	286.9	0.00996	mg/L	0.002339	1.777	mg/kg	0.4172	23.48%
Mg 279.077†	18568.0	47.53	mg/L	0.805	8476	mg/kg	143.6	1.69%
Mg 280.271†	2472962.2	44.65	mg/L	0.279	7963	mg/kg	49.8	0.62%
Mg 285.213†	200146.8	46.12	mg/L	0.284	8225	mg/kg	50.6	0.62%
Mn 257.610†	24363.0	1.764	mg/L	0.0356	314.6	mg/kg	6.35	2.02%
Mn 259.372†	28682.3	1.736	mg/L	0.0403	309.7	mg/kg	7.19	2.32%
Mn 260.568†	14396.9	1.723	mg/L	0.0319	307.3	mg/kg	5.69	1.85%
Mo 202.031†	7.3	0.4163	mg/L	0.13722	74.24	mg/kg	24.473	32.97%
Mo 203.845†	6.2	0.09691	mg/L	0.030436	17.28	mg/kg	5.428	31.41%
Mo 204.597†	3.6	0.03974	mg/L	0.015539	7.088	mg/kg	2.7714	39.10%
Na 588.995†	4520.9	0.7471	mg/L	0.01228	133.2	mg/kg	2.19	1.64%
Na 589.592†	2045.4	0.5460	mg/L	0.03213	97.39	mg/kg	5.731	5.88%
Ni 221.648†	17.7	0.1943	mg/L	0.01021	34.66	mg/kg	1.821	5.25%
Ni 231.604†	76.9	0.2349	mg/L	0.01427	41.89	mg/kg	2.545	6.07%
Ni 232.003†	55.0	0.2446	mg/L	0.01829	43.62	mg/kg	3.261	7.48%
Pb 217.000†	139.0	5.104	mg/L	0.1131	910.3	mg/kg	20.18	2.22%
Pb 220.353†	237.3	5.149	mg/L	0.0535	918.2	mg/kg	9.55	1.04%
Sb 206.836†	0.1	-0.01059	mg/L	0.026673	-1.889	mg/kg	4.7571	251.85%
Sb 217.582†	1.8	-0.04065	mg/L	0.041693	-7.250	mg/kg	7.4358	102.57%
Sb 231.146†	1.6	0.02643	mg/L	0.114615	4.714	mg/kg	20.4414	433.66%
Se 196.026†	1.0	0.05326	mg/L	0.199949	9.498	mg/kg	35.6607	375.45%
Se 203.985†	1.9	-0.07116	mg/L	0.501757	-12.69	mg/kg	89.488	705.11%
Sn 189.927†	7.4	0.8159	mg/L	0.05757	145.5	mg/kg	10.27	7.06%
Sn 235.485†	7103.2	27.06	mg/L	2.994	4827	mg/kg	534.1	11.06%
Sn 283.998†	103.7	0.2526	mg/L	0.02223	45.05	mg/kg	3.964	8.80%
Sr 407.771†	22546.2	0.06638	mg/L	0.001188	11.84	mg/kg	0.212	1.79%
Sr 421.552†	10291.9	0.06653	mg/L	0.001375	11.87	mg/kg	0.245	2.07%
Sr 460.733†	164.6	0.06726	mg/L	0.024023	12.00	mg/kg	4.284	35.72%
Ti 334.940†	17202.9	0.7802	mg/L	0.01814	139.2	mg/kg	3.23	2.32%
Ti 336.121†	12435.5	0.7931	mg/L	0.01677	141.5	mg/kg	2.99	2.11%
Ti 337.279†	5872.5	0.7666	mg/L	0.01318	136.7	mg/kg	2.35	1.72%
Tl 190.801†	-0.0	-0.06126	mg/L	0.216321	-10.93	mg/kg	38.581	353.12%
Tl 276.787†	229.8	0.8531	mg/L	0.06652	152.1	mg/kg	11.86	7.80%
Tl 351.924†	4.7	0.01259	mg/L	0.043577	2.245	mg/kg	7.7718	346.25%
V 290.880†	286.3	0.08366	mg/L	0.004922	14.92	mg/kg	0.878	5.88%
V 309.310†	1705.1	0.1042	mg/L	0.00169	18.58	mg/kg	0.301	1.62%
V 310.230†	927.4	0.1194	mg/L	0.00104	21.29	mg/kg	0.185	0.87%
Zn 202.548†	1970.7	5.584	mg/L	0.0466	995.9	mg/kg	8.31	0.83%
Zn 206.200†	2034.9	5.458	mg/L	0.0424	973.4	mg/kg	7.57	0.78%
Zn 213.857†	2877.6	5.792	mg/L	0.0466	1033	mg/kg	8.3	0.80%

==========

Sequence No.: 10
Sample ID: 0305007-02
Analyst:
Sample Wt: 0.5751 g
Dilution: 1X

Autosampler Location: 31
Date Collected: 7/25/03 11:58:16 AM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	176834.3						1269.84	0.72%
Ag 328.068†	-1.2	0.00240	mg/L	0.000876	0.4178	mg/kg	0.15240	36.48%
Ag 338.289†	-11.6	0.00515	mg/L	0.000919	0.8962	mg/kg	0.15987	17.84%
Al 308.215†	5994.0	8.642	mg/L	0.0831	1503	mg/kg	14.4	0.96%
Al 394.401†	7070.5	8.497	mg/L	0.0253	1478	mg/kg	4.4	0.30%
Al 396.153†	17400.8	8.736	mg/L	0.0479	1519	mg/kg	8.3	0.55%
As 188.979†	6.3	0.5886	mg/L	0.12738	102.4	mg/kg	22.15	21.64%

As 193.696†	2.1	0.3712 mg/L	0.20299	64.54 mg/kg	35.297	54.69%
As 197.197†	-6.9	-0.6357 mg/L	0.46899	-110.5 mg/kg	81.55	73.77%
B 208.889†	11.4	0.1385 mg/L	0.04152	24.08 mg/kg	7.219	29.98%
B 249.677†	54.7	0.1098 mg/L	0.00482	19.09 mg/kg	0.838	4.39%
B 249.772†	245.4	0.1395 mg/L	0.00447	24.27 mg/kg	0.778	3.21%
Ba 233.527†	286.8	0.1111 mg/L	0.00239	19.31 mg/kg	0.415	2.15%
Ba 455.403†	13905.4	0.1148 mg/L	0.00075	19.96 mg/kg	0.130	0.65%
Ba 493.408†	12941.0	0.1145 mg/L	0.00068	19.91 mg/kg	0.117	0.59%
Be 234.861†	178.2	0.00160 mg/L	0.000475	0.2785 mg/kg	0.08260	29.66%
Be 313.042†	-45.0	-0.00085 mg/L	0.000152	-0.1480 mg/kg	0.02649	17.90%
Be 313.107†	39.9	0.00106 mg/L	0.000088	0.1844 mg/kg	0.01530	8.30%
Ca 315.887†	240207.9	124.8 mg/L	2.11	21710 mg/kg	367.2	1.69%
Ca 317.933†	250581.3	116.2 mg/L	1.93	20210 mg/kg	335.0	1.66%
Cd 214.440†	12.4	0.00961 mg/L	0.002100	1.671 mg/kg	0.3651	21.85%
Cd 226.502†	6.1	0.00235 mg/L	0.002633	0.4090 mg/kg	0.45785	111.93%
Cd 228.802†	2.4	0.00074 mg/L	0.005379	0.1285 mg/kg	0.93527	727.60%
Ce 413.380†	59.4	0.02312 mg/L	0.015919	4.021 mg/kg	2.7680	68.85%
Ce 413.764†	48.9	0.03178 mg/L	0.008495	5.527 mg/kg	1.4771	26.73%
Ce 418.660†	51.4	0.02765 mg/L	0.019511	4.807 mg/kg	3.3926	70.57%
Co 228.616†	6.2	0.00736 mg/L	0.003706	1.279 mg/kg	0.6444	50.38%
Co 230.786†	13.4	0.01383 mg/L	0.007061	2.404 mg/kg	1.2278	51.07%
Co 238.892†	175.2	0.04843 mg/L	0.026794	8.421 mg/kg	4.6591	55.33%
Cr 205.560†	23.0	0.1534 mg/L	0.00739	26.68 mg/kg	1.285	4.82%
Cr 267.716†	130.7	0.1401 mg/L	0.00787	24.35 mg/kg	1.368	5.62%
Cr 283.563†	1148.8	0.1707 mg/L	0.00447	29.69 mg/kg	0.778	2.62%
Cu 224.700†	93.1	0.2667 mg/L	0.00830	46.38 mg/kg	1.442	3.11%
Cu 324.752†	2026.5	0.2861 mg/L	0.00277	49.75 mg/kg	0.481	0.97%
Cu 327.393†	883.0	0.2867 mg/L	0.00230	49.85 mg/kg	0.400	0.80%
Fe 238.204†	245458.5	137.9 mg/L	0.58	23980 mg/kg	101.1	0.42%
Fe 239.562†	145550.6	140.4 mg/L	0.45	24410 mg/kg	78.8	0.32%
Fe 259.939†	493269.9	138.4 mg/L	2.34	24070 mg/kg	407.1	1.69%
Fe 273.955†	73483.1	150.4 mg/L	0.50	26150 mg/kg	86.2	0.33%
K 766.490†	1274.8	1.032 mg/L	0.0511	179.5 mg/kg	8.88	4.95%
Li 610.362†	-293.5	-0.1012 mg/L	0.04058	-17.60 mg/kg	7.057	40.10%
Li 670.784†	384.5	0.01233 mg/L	0.001434	2.143 mg/kg	0.2493	11.63%
Mg 279.077†	25144.4	64.48 mg/L	0.272	11210 mg/kg	47.4	0.42%
Mg 280.271†	3303598.0	59.68 mg/L	0.951	10380 mg/kg	165.3	1.59%
Mg 285.213†	268006.3	61.78 mg/L	0.921	10740 mg/kg	160.1	1.49%
Mn 257.610†	14394.8	1.043 mg/L	0.0046	181.3 mg/kg	0.80	0.44%
Mn 259.372†	15699.9	1.026 mg/L	0.0073	178.4 mg/kg	1.27	0.71%
Mn 260.568†	8471.9	1.017 mg/L	0.0045	176.9 mg/kg	0.79	0.45%
Mo 202.031†	10.7	0.6717 mg/L	0.13469	116.8 mg/kg	23.42	20.05%
Mo 203.845†	1.9	0.03420 mg/L	0.032025	5.947 mg/kg	5.5686	93.64%
Mo 204.597†	2.0	0.02488 mg/L	0.009450	4.326 mg/kg	1.6432	37.98%
Na 588.995†	4840.4	0.7998 mg/L	0.02250	139.1 mg/kg	3.91	2.81%
Na 589.592†	1953.3	0.5214 mg/L	0.02693	90.67 mg/kg	4.682	5.16%
Ni 221.648†	5.3	0.06415 mg/L	0.009166	11.15 mg/kg	1.594	14.29%
Ni 231.604†	37.0	0.1134 mg/L	0.00346	19.71 mg/kg	0.602	3.06%
Ni 232.003†	20.7	0.1034 mg/L	0.01261	17.98 mg/kg	2.193	12.20%
Pb 217.000†	64.6	2.382 mg/L	0.0700	414.1 mg/kg	12.17	2.94%
Pb 220.353†	111.3	2.369 mg/L	0.0341	411.9 mg/kg	5.92	1.44%
Sb 206.836†	0.2	-0.00810 mg/L	0.064864	-1.408 mg/kg	11.2788	800.87%
Sb 217.582†	-3.1	-0.1458 mg/L	0.06144	-25.34 mg/kg	10.683	42.15%
Sb 231.146†	-0.3	-0.02459 mg/L	0.129140	-4.276 mg/kg	22.4553	525.18%
Se 196.026†	1.4	0.1179 mg/L	0.27174	20.51 mg/kg	47.251	230.41%
Se 203.985†	0.9	0.00926 mg/L	0.405263	1.610 mg/kg	70.4683	>999.9%
Sn 189.927†	3.8	0.4118 mg/L	0.21679	71.60 mg/kg	37.696	52.65%
Sn 235.485†	2641.7	9.295 mg/L	0.4156	1616 mg/kg	72.3	4.47%
Sn 283.998†	-19.7	0.03861 mg/L	0.017688	6.714 mg/kg	3.0757	45.81%
Sr 407.771†	19709.9	0.05703 mg/L	0.000237	9.916 mg/kg	0.0412	0.42%
Sr 421.552†	8844.9	0.05653 mg/L	0.000384	9.829 mg/kg	0.0668	0.68%
Sr 460.733†	148.7	0.06046 mg/L	0.019809	10.51 mg/kg	3.444	32.76%
Ti 334.940†	11660.3	0.5305 mg/L	0.00249	92.24 mg/kg	0.432	0.47%
Ti 336.121†	8476.1	0.5393 mg/L	0.00135	93.77 mg/kg	0.235	0.25%
Ti 337.279†	3988.3	0.5206 mg/L	0.00655	90.53 mg/kg	1.139	1.26%
Tl 190.801†	-0.1	-0.00502 mg/L	0.330607	-0.8727 mg/kg	57.48687	>999.9%
Tl 276.787†	334.6	1.560 mg/L	0.0657	271.3 mg/kg	11.42	4.21%
Tl 351.924†	-5.2	-0.04343 mg/L	0.069651	-7.552 mg/kg	12.1112	160.38%
V 290.880†	58.0	0.02684 mg/L	0.003402	4.667 mg/kg	0.5915	12.67%
V 309.310†	1794.0	0.05271 mg/L	0.005171	9.165 mg/kg	0.8991	9.81%

V 310.230†	531.9	0.06783	mg/L	0.004599	11.79	mg/kg	0.800	6.78%
Zn 202.548†	621.7	1.758	mg/L	0.0211	305.6	mg/kg	3.66	1.20%
Zn 206.200†	643.2	1.726	mg/L	0.0247	300.2	mg/kg	4.30	1.43%
Zn 213.857†	918.0	1.841	mg/L	0.0076	320.2	mg/kg	1.31	0.41%

Sequence No.: 11
Sample ID: 0305007-03
Analyst:
Sample Wt: 0.5224 g
Dilution: 1X

Autosampler Location: 33
Date Collected: 7/25/03 12:02:06 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	173144.8						644.54	0.37%
Ag 328.068†	4.3	0.00354	mg/L	0.001575	0.6784	mg/kg	0.30157	44.46%
Ag 338.289†	-12.8	-0.00771	mg/L	-0.002389	1.476	mg/kg	0.4574	30.99%
Al 308.215†	7897.3	11.39	mg/L	0.094	2180	mg/kg	17.9	0.82%
Al 394.401†	9399.1	11.29	mg/L	0.084	2162	mg/kg	16.1	0.75%
Al 396.153†	23116.4	11.61	mg/L	0.088	2222	mg/kg	16.8	0.76%
As 188.979†	5.6	0.5076	mg/L	0.11247	97.17	mg/kg	21.530	22.16%
As 193.696†	1.8	0.3361	mg/L	0.12850	64.33	mg/kg	24.597	38.24%
As 197.197†	-6.0	-0.4540	mg/L	0.14882	-86.91	mg/kg	28.488	32.78%
B 208.889†	12.1	0.1429	mg/L	0.04057	27.35	mg/kg	7.767	28.40%
B 249.677†	57.7	0.1167	mg/L	0.00441	22.33	mg/kg	0.844	3.78%
B 249.772†	283.2	0.1483	mg/L	0.00267	28.39	mg/kg	0.511	1.80%
Ba 233.527†	359.5	0.1386	mg/L	0.00273	26.53	mg/kg	0.523	1.97%
Ba 455.403†	17224.2	0.1422	mg/L	0.00092	27.21	mg/kg	0.176	0.65%
Ba 493.408†	16060.3	0.1420	mg/L	0.00087	27.18	mg/kg	0.166	0.61%
Be 234.861†	226.1	0.00152	mg/L	0.001496	0.2906	mg/kg	0.28637	98.55%
Be 313.042†	-11.9	-0.00041	mg/L	0.000083	-0.07823	mg/kg	0.015799	20.19%
Be 313.107†	53.4	0.00143	mg/L	0.000052	0.2729	mg/kg	0.00990	3.63%
Ca 315.887†	283726.0	147.5	mg/L	1.61	28230	mg/kg	307.6	1.09%
Ca 317.933†	295643.8	137.1	mg/L	1.37	26250	mg/kg	262.1	1.00%
Cd 214.440†	50.3	0.04451	mg/L	0.001573	8.521	mg/kg	0.3011	3.53%
Cd 226.502†	31.5	0.03799	mg/L	0.001088	7.272	mg/kg	0.2082	2.86%
Cd 228.802†	22.8	0.02428	mg/L	0.003439	4.648	mg/kg	0.6582	14.16%
Ce 413.380†	59.9	0.01467	mg/L	0.039242	2.808	mg/kg	7.5118	267.52%
Ce 413.764†	71.0	0.04773	mg/L	0.012158	9.137	mg/kg	2.3274	25.47%
Ce 418.660†	100.8	0.05638	mg/L	0.022233	10.79	mg/kg	4.256	39.44%
Co 228.616†	13.7	0.01749	mg/L	0.001973	3.348	mg/kg	0.3777	11.28%
Co 230.786†	19.6	0.02093	mg/L	0.005012	4.007	mg/kg	0.9594	23.94%
Co 238.892†	225.2	0.05486	mg/L	0.049751	10.50	mg/kg	9.524	90.69%
Cr 205.560†	93.6	0.6241	mg/L	0.00060	119.5	mg/kg	0.12	0.10%
Cr 267.716†	582.0	0.6132	mg/L	0.00192	117.4	mg/kg	0.37	0.31%
Cr 283.563†	3582.6	0.6557	mg/L	0.00376	125.5	mg/kg	0.72	0.57%
Cu 224.700†	138.8	0.4042	mg/L	0.01528	77.38	mg/kg	2.926	3.78%
Cu 324.752†	3062.6	0.4325	mg/L	0.00199	82.78	mg/kg	0.381	0.46%
Cu 327.393†	1334.2	0.4341	mg/L	0.00258	83.11	mg/kg	0.493	0.59%
Fe 238.204†	324438.4	182.3	mg/L	2.13	34890	mg/kg	407.2	1.17%
Fe 239.562†	191059.2	184.2	mg/L	0.55	35270	mg/kg	106.2	0.30%
Fe 259.939†	655450.8	183.9	mg/L	2.24	35200	mg/kg	429.3	1.22%
Fe 273.955†	96714.0	197.9	mg/L	0.90	37890	mg/kg	172.6	0.46%
K 766.490†	1438.4	1.165	mg/L	0.0262	222.9	mg/kg	5.01	2.25%
Li 610.362†	575.0	0.04803	mg/L	0.046300	9.194	mg/kg	8.8629	96.40%
Li 670.784†	303.3	0.01031	mg/L	0.000833	1.974	mg/kg	0.1595	8.08%
Mg 279.077†	26481.7	67.90	mg/L	0.276	13000	mg/kg	52.8	0.41%
Mg 280.271†	3514346.5	63.48	mg/L	0.661	12150	mg/kg	126.6	1.04%
Mg 285.213†	285761.3	65.87	mg/L	0.707	12610	mg/kg	135.4	1.07%
Mn 257.610†	24195.9	1.754	mg/L	0.0084	335.8	mg/kg	1.60	0.48%
Mn 259.372†	25667.4	1.732	mg/L	0.0074	331.6	mg/kg	1.42	0.43%
Mn 260.568†	14280.0	1.718	mg/L	0.0125	328.9	mg/kg	2.40	0.73%
Mo 202.031†	11.9	0.7483	mg/L	0.15961	143.2	mg/kg	30.55	21.33%
Mo 203.845†	2.2	0.03625	mg/L	0.055566	6.939	mg/kg	10.6367	153.30%
Mo 204.597†	3.4	0.04204	mg/L	0.009317	8.047	mg/kg	1.7834	22.16%
Na 588.995†	4579.1	0.7567	mg/L	0.02971	144.8	mg/kg	5.69	3.93%
Na 589.592†	2008.4	0.5362	mg/L	0.00870	102.6	mg/kg	1.67	1.62%
Ni 221.648†	17.5	0.1989	mg/L	0.03959	38.07	mg/kg	7.578	19.90%

Ni 231.604†	78.9	0.2437	mg/L	0.00401	46.65	mg/kg	0.767	1.64%
Ni 232.003†	48.7	0.2272	mg/L	0.01431	43.48	mg/kg	2.740	6.30%
Pb 217.000†	50.3	1.749	mg/L	0.0320	334.8	mg/kg	6.13	1.83%
Pb 220.353†	85.5	1.822	mg/L	0.0479	348.7	mg/kg	9.17	2.63%
Sb 206.836†	-0.2	-0.03277	mg/L	0.081887	-6.273	mg/kg	15.6752	249.90%
Sb 217.582†	-1.9	-0.1011	mg/L	0.06198	-19.36	mg/kg	11.864	61.28%
Sb 231.146†	-1.4	-0.07327	mg/L	0.140909	-14.03	mg/kg	26.973	192.32%
Se 196.026†	-0.1	-0.03745	mg/L	0.148249	-7.168	mg/kg	28.3784	395.90%
Se 203.985†	2.7	0.1064	mg/L	0.10323	20.37	mg/kg	19.760	97.00%
Sn 189.927†	5.8	0.6324	mg/L	0.17651	121.1	mg/kg	33.79	27.91%
Sn 235.485†	3528.3	13.43	mg/L	0.270	2570	mg/kg	51.8	2.01%
Sn 283.998†	103.9	0.1886	mg/L	0.01737	36.10	mg/kg	3.326	9.21%
Sr 407.771†	25241.1	0.07334	mg/L	0.000467	14.04	mg/kg	0.089	0.64%
Sr 421.552†	11440.6	0.07345	mg/L	0.000794	14.06	mg/kg	0.152	1.08%
Sr 460.733†	189.9	0.07811	mg/L	0.019499	14.95	mg/kg	3.733	24.96%
Ti 334.940†	12216.2	0.5561	mg/L	0.00343	106.4	mg/kg	0.66	0.62%
Ti 336.121†	8891.5	0.5653	mg/L	0.00341	108.2	mg/kg	0.65	0.60%
Ti 337.279†	4175.8	0.5450	mg/L	0.00215	104.3	mg/kg	0.41	0.39%
Tl 190.801†	0.4	0.07704	mg/L	0.122202	14.75	mg/kg	23.392	158.63%
Tl 276.787†	331.6	1.423	mg/L	0.2689	272.3	mg/kg	51.47	18.90%
Tl 351.924†	-0.5	-0.01383	mg/L	0.089254	-2.647	mg/kg	17.0854	645.49%
V 290.880†	87.0	0.03457	mg/L	0.004123	6.617	mg/kg	0.7893	11.93%
V 309.310†	1933.9	0.06278	mg/L	0.002436	12.02	mg/kg	0.466	3.88%
V 310.230†	653.0	0.08342	mg/L	0.000647	15.97	mg/kg	0.124	0.78%
Zn 202.548†	1400.7	3.968	mg/L	0.0203	759.6	mg/kg	3.90	0.51%
Zn 206.200†	1441.5	3.865	mg/L	0.0110	739.8	mg/kg	2.10	0.28%
Zn 213.857†	2048.7	4.124	mg/L	0.0145	789.4	mg/kg	2.77	0.35%

Sequence No.: 12 **Autosampler Location: 35**
Sample ID: 0305007-04 **Date Collected: 7/25/03 12:05:59 PM**
Analyst:
Sample Wt: 0.6996 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: 0305007-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	171787.4						1376.24	0.80%
Ag 328.068†	0.1	0.00363	mg/L	0.001854	0.5187	mg/kg	0.26506	51.10%
Ag 338.289†	-9.7	0.00669	mg/L	0.001081	0.9559	mg/kg	0.15449	16.16%
Al 308.215†	9251.9	13.34	mg/L	0.017	1907	mg/kg	2.5	0.13%
Al 394.401†	10956.0	13.15	mg/L	0.059	1880	mg/kg	8.5	0.45%
Al 396.153†	26889.7	13.50	mg/L	0.019	1930	mg/kg	2.8	0.14%
As 188.979†	5.1	0.4375	mg/L	0.02393	62.53	mg/kg	3.420	5.47%
As 193.696†	1.7	0.3236	mg/L	0.16346	46.25	mg/kg	23.365	50.52%
As 197.197†	-4.1	-0.1682	mg/L	0.38080	-24.05	mg/kg	54.431	226.35%
B 208.889†	10.9	0.1267	mg/L	0.04754	18.11	mg/kg	6.796	37.52%
B 249.677†	61.6	0.1235	mg/L	0.00919	17.65	mg/kg	1.313	7.44%
B 249.772†	262.8	0.1455	mg/L	0.00044	20.80	mg/kg	0.062	0.30%
Ba 233.527†	376.3	0.1481	mg/L	0.00342	21.17	mg/kg	0.488	2.31%
Ba 455.403†	18100.3	0.1494	mg/L	0.00023	21.35	mg/kg	0.032	0.15%
Ba 493.408†	16714.7	0.1480	mg/L	0.00130	21.16	mg/kg	0.185	0.88%
Be 234.861†	198.7	0.00165	mg/L	0.000895	0.2364	mg/kg	0.12795	54.12%
Be 313.042†	-16.8	-0.00052	mg/L	0.000090	-0.07421	mg/kg	0.012919	17.41%
Be 313.107†	52.6	0.00140	mg/L	0.000237	0.1996	mg/kg	0.03393	17.00%
Ca 315.887†	305254.4	158.6	mg/L	1.38	22680	mg/kg	196.7	0.87%
Ca 317.933†	318315.5	147.6	mg/L	1.37	21100	mg/kg	195.6	0.93%
Cd 214.440†	23.9	0.02019	mg/L	0.004055	2.886	mg/kg	0.5796	20.08%
Cd 226.502†	11.0	0.00945	mg/L	0.002412	1.351	mg/kg	0.3448	25.53%
Cd 228.802†	10.6	0.01057	mg/L	0.003297	1.511	mg/kg	0.4712	31.18%
Ce 413.380†	88.7	0.04477	mg/L	0.027137	6.400	mg/kg	3.8789	60.61%
Ce 413.764†	88.0	0.06292	mg/L	0.011212	8.994	mg/kg	1.6026	17.82%
Ce 418.660†	103.1	0.05910	mg/L	0.014047	8.448	mg/kg	2.0079	23.77%
Co 228.616†	15.5	0.02047	mg/L	0.001730	2.926	mg/kg	0.2473	8.45%
Co 230.786†	22.8	0.02644	mg/L	0.002951	3.779	mg/kg	0.4218	11.16%
Co 238.892†	209.6	0.07480	mg/L	0.024671	10.69	mg/kg	3.526	32.98%
Cr 205.560†	54.7	0.3644	mg/L	0.00785	52.09	mg/kg	1.123	2.16%
Cr 267.716†	344.7	0.3644	mg/L	0.00593	52.09	mg/kg	0.848	1.63%

Cr 283.563†	2277.5	0.3975 mg/L	0.00538	56.81 mg/kg	0.769	1.35%
Cu 224.700†	103.7	0.2981 mg/L	0.00259	42.61 mg/kg	0.370	0.87%
Cu 324.752†	2294.6	0.3236 mg/L	0.00220	46.26 mg/kg	0.314	0.68%
Cu 327.393†	995.1	0.3224 mg/L	0.00286	46.09 mg/kg	0.409	0.89%
Fe 238.204†	275499.4	154.8 mg/L	0.25	22120 mg/kg	35.2	0.16%
Fe 239.562†	163342.6	157.5 mg/L	0.40	22520 mg/kg	56.6	0.25%
Fe 259.939†	566741.2	159.0 mg/L	1.48	22730 mg/kg	212.0	0.93%
Fe 273.955†	82728.9	169.3 mg/L	0.04	24200 mg/kg	5.1	0.02%
K 766.490†	2137.5	1.731 mg/L	0.0494	247.4 mg/kg	7.05	2.85%
Li 610.362†	895.0	0.1064 mg/L	0.08782	15.21 mg/kg	12.553	82.55%
Li 670.784†	404.4	0.01323 mg/L	0.001570	1.891 mg/kg	0.2245	11.87%
Mg 279.077†	32237.9	82.68 mg/L	0.389	11820 mg/kg	55.6	0.47%
Mg 280.271†	4262159.5	77.00 mg/L	0.611	11010 mg/kg	87.4	0.79%
Mg 285.213†	349163.7	80.50 mg/L	0.546	11510 mg/kg	78.0	0.68%
Mn 257.610†	19129.7	1.386 mg/L	0.0015	198.1 mg/kg	0.21	0.10%
Mn 259.372†	20495.4	1.370 mg/L	0.0032	195.8 mg/kg	0.46	0.24%
Mn 260.568†	11268.4	1.355 mg/L	0.0009	193.6 mg/kg	0.12	0.06%
Mo 202.031†	11.9	0.7223 mg/L	0.19456	103.2 mg/kg	27.81	26.94%
Mo 203.845†	5.0	0.1102 mg/L	0.02397	15.75 mg/kg	3.426	21.75%
Mo 204.597†	3.7	0.04754 mg/L	0.038154	6.796 mg/kg	5.4537	80.25%
Na 588.995†	4872.3	0.8051 mg/L	0.03220	115.1 mg/kg	4.60	4.00%
Na 589.592†	2225.0	0.5940 mg/L	0.01706	84.91 mg/kg	2.439	2.87%
Ni 221.648†	11.3	0.1325 mg/L	0.04097	18.93 mg/kg	5.856	30.93%
Ni 231.604†	53.1	0.1634 mg/L	0.00365	23.35 mg/kg	0.521	2.23%
Ni 232.003†	38.2	0.1865 mg/L	0.01150	26.65 mg/kg	1.644	6.17%
Pb 217.000†	39.7	1.343 mg/L	0.0967	192.0 mg/kg	13.82	7.20%
Pb 220.353†	68.9	1.454 mg/L	0.0329	207.8 mg/kg	4.71	2.27%
Sb 206.836†	2.1	0.04829 mg/L	0.027357	6.903 mg/kg	3.9104	56.65%
Sb 217.582†	-3.2	-0.1464 mg/L	0.07151	-20.93 mg/kg	10.221	48.84%
Sb 231.146†	0.1	-0.00803 mg/L	0.113145	-1.148 mg/kg	16.1729	>999.9%
Se 196.026†	-1.6	-0.1942 mg/L	0.48398	-27.75 mg/kg	69.180	249.27%
Se 203.985†	3.4	0.2172 mg/L	0.18877	31.05 mg/kg	26.982	86.89%
Sn 189.927†	4.1	0.4341 mg/L	0.14324	62.05 mg/kg	20.475	33.00%
Sn 235.485†	3011.8	11.34 mg/L	0.332	1621 mg/kg	47.4	2.92%
Sn 283.998†	17.9	0.06951 mg/L	0.029001	9.935 mg/kg	4.1454	41.72%
Sr 407.771†	24911.4	0.07202 mg/L	0.000251	10.29 mg/kg	0.036	0.35%
Sr 421.552†	11244.4	0.07187 mg/L	0.000259	10.27 mg/kg	0.037	0.36%
Sr 460.733†	124.5	0.04709 mg/L	0.007689	6.732 mg/kg	1.0990	16.33%
Ti 334.940†	17364.8	0.7891 mg/L	0.00268	112.8 mg/kg	0.38	0.34%
Ti 336.121†	12637.1	0.8047 mg/L	0.00146	115.0 mg/kg	0.21	0.18%
Ti 337.279†	5921.9	0.7733 mg/L	0.00271	110.5 mg/kg	0.39	0.35%
Tl 190.801†	-0.7	-0.1134 mg/L	0.51095	-16.20 mg/kg	73.035	450.72%
Tl 276.787†	411.6	1.849 mg/L	0.3119	264.3 mg/kg	44.59	16.87%
Tl 351.924†	2.1	0.00315 mg/L	0.059007	0.4502 mg/kg	8.43446	>999.9%
V 290.880†	132.4	0.05483 mg/L	0.004208	7.838 mg/kg	0.6014	7.67%
V 309.310†	2405.4	0.08055 mg/L	0.005506	11.51 mg/kg	0.787	6.84%
V 310.230†	839.2	0.1072 mg/L	0.00411	15.33 mg/kg	0.588	3.83%
Zn 202.548†	987.7	2.796 mg/L	0.0232	399.6 mg/kg	3.31	0.83%
Zn 206.200†	1017.3	2.729 mg/L	0.0199	390.0 mg/kg	2.85	0.73%
Zn 213.857†	1449.5	2.913 mg/L	0.0200	416.4 mg/kg	2.86	0.69%

==========

Sequence No.: 13 **Autosampler Location: 37**
Sample ID: B307012-DUP1 **Date Collected: 7/25/03 12:09:53 PM**
Analyst:
Sample Wt: 0.6983 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: B307012-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	174904.6						3930.94	2.25%
Ag 328.068†	-10.6	0.00167	mg/L	0.000260	0.2394	mg/kg	0.03722	15.55%
Ag 338.289†	-4.5	0.00822	mg/L	0.001540	1.177	mg/kg	0.2206	18.74%
Al 308.215†	9255.6	13.35	mg/L	0.008	1911	mg/kg	1.2	0.06%
Al 394.401†	11056.2	13.27	mg/L	0.112	1900	mg/kg	16.1	0.85%
Al 396.153†	27052.8	13.59	mg/L	0.118	1946	mg/kg	16.9	0.87%
As 188.979†	3.7	0.2982	mg/L	0.16630	42.70	mg/kg	23.815	55.77%
As 193.696†	2.4	0.4330	mg/L	0.12028	62.01	mg/kg	17.225	27.78%

As 197.197†	-6.6	-0.5373 mg/L	0.17161	-76.94 mg/kg	24.576	31.94%
B 208.889†	14.1	0.1712 mg/L	0.05027	24.52 mg/kg	7.199	29.36%
B 249.677†	63.7	0.1274 mg/L	0.00472	18.25 mg/kg	0.675	3.70%
B 249.772†	274.1	0.1566 mg/L	0.00610	22.42 mg/kg	0.874	3.90%
Ba 233.527†	356.5	0.1398 mg/L	0.00247	20.02 mg/kg	0.353	1.76%
Ba 455.403†	17981.7	0.1484 mg/L	0.00069	21.25 mg/kg	0.099	0.47%
Ba 493.408†	16628.4	0.1473 mg/L	0.00146	21.09 mg/kg	0.209	0.99%
Be 234.861†	198.9	0.00183 mg/L	0.000497	0.2620 mg/kg	0.07113	27.15%
Be 313.042†	-18.5	-0.00053 mg/L	0.000065	-0.07594 mg/kg	0.009355	12.32%
Be 313.107†	49.0	0.00130 mg/L	0.000119	0.1863 mg/kg	0.01708	9.17%
Ca 315.887†	285193.5	148.2 mg/L	3.97	21230 mg/kg	568.2	2.68%
Ca 317.933†	297332.4	137.9 mg/L	3.90	19750 mg/kg	558.1	2.83%
Cd 214.440†	22.1	0.01855 mg/L	0.000458	2.656 mg/kg	0.0656	2.47%
Cd 226.502†	12.3	0.01113 mg/L	0.002784	1.593 mg/kg	0.3987	25.02%
Cd 228.802†	9.5	0.00798 mg/L	0.001078	1.143 mg/kg	0.1543	13.51%
Ce 413.380†	89.9	0.04614 mg/L	0.051761	6.608 mg/kg	7.4124	112.18%
Ce 413.764†	81.2	0.05748 mg/L	0.001180	8.232 mg/kg	0.1690	2.05%
Ce 418.660†	91.3	0.05173 mg/L	0.012270	7.407 mg/kg	1.7571	23.72%
Co 228.616†	14.9	0.01950 mg/L	0.001619	2.792 mg/kg	0.2319	8.30%
Co 230.786†	18.7	0.02068 mg/L	0.004021	2.962 mg/kg	0.5758	19.44%
Co 238.892†	189.1	0.04443 mg/L	0.006453	6.363 mg/kg	0.9241	14.52%
Cr 205.560†	55.5	0.3699 mg/L	0.01663	52.98 mg/kg	2.381	4.50%
Cr 267.716†	342.6	0.3622 mg/L	0.01023	51.87 mg/kg	1.464	2.82%
Cr 283.563†	2297.3	0.4025 mg/L	0.01128	57.64 mg/kg	1.615	2.80%
Cu 224.700†	101.6	0.2922 mg/L	0.00345	41.85 mg/kg	0.494	1.18%
Cu 324.752†	2276.5	0.3212 mg/L	0.00794	46.00 mg/kg	1.136	2.47%
Cu 327.393†	994.1	0.3223 mg/L	0.00875	46.16 mg/kg	1.253	2.71%
Fe 238.204†	271921.6	152.8 mg/L	1.51	21880 mg/kg	216.6	0.99%
Fe 239.562†	161277.5	155.5 mg/L	1.57	22270 mg/kg	225.3	1.01%
Fe 259.939†	547611.7	153.6 mg/L	4.33	22000 mg/kg	620.2	2.82%
Fe 273.955†	81677.4	167.2 mg/L	1.73	23940 mg/kg	248.2	1.04%
K 766.490†	2287.2	1.852 mg/L	0.0266	265.2 mg/kg	3.81	1.44%
Li 610.362†	33.0	-0.04936 mg/L	0.146685	-7.069 mg/kg	21.0059	297.18%
Li 670.784†	447.1	0.01438 mg/L	0.001839	2.059 mg/kg	0.2633	12.79%
Mg 279.077†	30749.2	78.86 mg/L	0.905	11290 mg/kg	129.6	1.15%
Mg 280.271†	3990616.1	72.09 mg/L	1.994	10320 mg/kg	285.5	2.77%
Mg 285.213†	325798.6	75.11 mg/L	1.970	10760 mg/kg	282.1	2.62%
Mn 257.610†	18716.5	1.356 mg/L	0.0116	194.2 mg/kg	1.66	0.86%
Mn 259.372†	20072.3	1.340 mg/L	0.0103	191.9 mg/kg	1.47	0.77%
Mn 260.568†	11119.1	1.337 mg/L	0.0099	191.4 mg/kg	1.42	0.74%
Mo 202.031†	10.6	0.6246 mg/L	0.08779	89.45 mg/kg	12.572	14.06%
Mo 203.845†	3.1	0.06390 mg/L	0.021993	9.151 mg/kg	3.1495	34.42%
Mo 204.597†	2.3	0.02737 mg/L	0.021100	3.919 mg/kg	3.0217	77.10%
Na 588.995†	5779.4	0.9550 mg/L	0.03464	136.8 mg/kg	4.96	3.63%
Na 589.592†	2533.0	0.6762 mg/L	0.02795	96.84 mg/kg	4.002	4.13%
Ni 221.648†	11.6	0.1346 mg/L	0.01572	19.27 mg/kg	2.251	11.68%
Ni 231.604†	49.0	0.1506 mg/L	0.00168	21.57 mg/kg	0.240	1.11%
Ni 232.003†	32.8	0.1573 mg/L	0.01970	22.53 mg/kg	2.822	12.52%
Pb 217.000†	40.5	1.379 mg/L	0.0884	197.5 mg/kg	12.66	6.41%
Pb 220.353†	67.3	1.424 mg/L	0.0205	203.9 mg/kg	2.94	1.44%
Sb 206.836†	1.5	0.02981 mg/L	0.012722	4.269 mg/kg	1.8219	42.67%
Sb 217.582†	-0.1	-0.01208 mg/L	0.056343	-1.730 mg/kg	8.0685	466.28%
Sb 231.146†	-0.5	-0.03545 mg/L	0.046751	-5.077 mg/kg	6.6950	131.88%
Se 196.026†	0.9	0.05962 mg/L	0.163701	8.538 mg/kg	23.4428	274.57%
Se 203.985†	2.9	0.1654 mg/L	0.25365	23.68 mg/kg	36.323	153.37%
Sn 189.927†	3.7	0.3915 mg/L	0.15941	56.06 mg/kg	22.828	40.72%
Sn 235.485†	2915.9	9.859 mg/L	1.3842	1412 mg/kg	198.2	14.04%
Sn 283.998†	24.0	0.07881 mg/L	0.021800	11.29 mg/kg	3.122	27.66%
Sr 407.771†	23658.0	0.06846 mg/L	0.000603	9.803 mg/kg	0.0864	0.88%
Sr 421.552†	10669.3	0.06824 mg/L	0.000617	9.772 mg/kg	0.0883	0.90%
Sr 460.733†	115.1	0.04333 mg/L	0.017388	6.205 mg/kg	2.4901	40.13%
Ti 334.940†	16883.4	0.7671 mg/L	0.00895	109.8 mg/kg	1.28	1.17%
Ti 336.121†	12282.0	0.7822 mg/L	0.00382	112.0 mg/kg	0.55	0.49%
Ti 337.279†	5752.0	0.7511 mg/L	0.00593	107.6 mg/kg	0.85	0.79%
Tl 190.801†	0.2	0.05182 mg/L	0.295601	7.421 mg/kg	42.3315	570.46%
Tl 276.787†	379.0	1.635 mg/L	0.2657	234.2 mg/kg	38.05	16.25%
Tl 351.924†	3.2	0.01057 mg/L	0.040396	1.513 mg/kg	5.7849	382.23%
V 290.880†	118.1	0.04929 mg/L	0.004532	7.058 mg/kg	0.6491	9.20%
V 309.310†	2291.9	0.07627 mg/L	0.005975	10.92 mg/kg	0.856	7.83%
V 310.230†	739.5	0.09439 mg/L	0.006507	13.52 mg/kg	0.932	6.89%

Zn 202.548†	967.2	2.738	mg/L	0.0759	392.1	mg/kg	10.88	2.77%
Zn 206.200†	984.1	2.639	mg/L	0.0589	378.0	mg/kg	8.43	2.23%
Zn 213.857†	1419.8	2.854	mg/L	0.0653	408.7	mg/kg	9.36	2.29%

Sequence No.: 14 **Autosampler Location: 39**
Sample ID: B307012-MS1 **Date Collected: 7/25/03 12:13:49 PM**
Analyst:
Sample Wt: 0.6288 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: B307012-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	182986.8						982.76	0.54%
Ag 328.068†	454.6	0.08007	mg/L	0.001698	12.73	mg/kg	0.270	2.12%
Ag 338.289†	225.7	0.07956	mg/L	0.001271	12.65	mg/kg	0.202	1.60%
Al 308.215†	8481.0	12.21	mg/L	0.068	1942	mg/kg	10.9	0.56%
Al 394.401†	10040.2	12.04	mg/L	0.073	1915	mg/kg	11.6	0.61%
Al 396.153†	24685.3	12.37	mg/L	0.060	1967	mg/kg	9.5	0.48%
As 188.979†	3.9	0.3250	mg/L	0.07597	51.69	mg/kg	12.082	23.38%
As 193.696†	2.6	0.4576	mg/L	0.46857	72.77	mg/kg	74.519	102.40%
As 197.197†	-4.8	-0.3483	mg/L	0.19435	-55.39	mg/kg	30.908	55.80%
B 208.889†	70.8	0.9665	mg/L	0.05027	153.7	mg/kg	7.99	5.20%
B 249.677†	518.9	1.008	mg/L	0.0073	160.4	mg/kg	1.16	0.73%
B 249.772†	1229.3	1.019	mg/L	0.0162	162.0	mg/kg	2.58	1.59%
Ba 233.527†	1361.6	0.5772	mg/L	0.00937	91.79	mg/kg	1.490	1.62%
Ba 455.403†	71604.5	0.5923	mg/L	0.00187	94.20	mg/kg	0.297	0.32%
Ba 493.408†	65995.7	0.5897	mg/L	0.00394	93.79	mg/kg	0.627	0.67%
Be 234.861†	807.2	0.04811	mg/L	0.001835	7.650	mg/kg	0.2919	3.81%
Be 313.042†	3223.0	0.04525	mg/L	0.000357	7.196	mg/kg	0.0568	0.79%
Be 313.107†	1758.6	0.04717	mg/L	0.000246	7.502	mg/kg	0.0391	0.52%
Ca 315.887†	247714.0	128.7	mg/L	3.00	20470	mg/kg	477.7	2.33%
Ca 317.933†	258264.5	119.8	mg/L	2.83	19050	mg/kg	450.5	2.36%
Cd 214.440†	118.1	0.1088	mg/L	0.00189	17.30	mg/kg	0.300	1.73%
Cd 226.502†	69.8	0.09968	mg/L	0.001101	15.85	mg/kg	0.175	1.10%
Cd 228.802†	75.1	0.07889	mg/L	0.002851	12.55	mg/kg	0.453	3.61%
Ce 413.380†	65.7	0.03087	mg/L	0.020403	4.910	mg/kg	3.2447	66.09%
Ce 413.764†	70.3	0.04937	mg/L	0.012215	7.851	mg/kg	1.9427	24.74%
Ce 418.660†	59.2	0.03275	mg/L	0.006295	5.209	mg/kg	1.0011	19.22%
Co 228.616†	334.1	0.4803	mg/L	0.00396	76.38	mg/kg	0.630	0.82%
Co 230.786†	310.1	0.4373	mg/L	0.00314	69.54	mg/kg	0.499	0.72%
Co 238.892†	412.3	0.4625	mg/L	0.02660	73.56	mg/kg	4.231	5.75%
Cr 205.560†	112.2	0.7468	mg/L	0.00405	118.8	mg/kg	0.64	0.54%
Cr 267.716†	723.5	0.7583	mg/L	0.00885	120.6	mg/kg	1.41	1.17%
Cr 283.563†	4082.0	0.7884	mg/L	0.00993	125.4	mg/kg	1.58	1.26%
Cu 224.700†	225.1	0.6784	mg/L	0.01031	107.9	mg/kg	1.64	1.52%
Cu 324.752†	4997.5	0.7080	mg/L	0.00872	112.6	mg/kg	1.39	1.23%
Cu 327.393†	2155.4	0.7036	mg/L	0.00723	111.9	mg/kg	1.15	1.03%
Fe 238.204†	221863.5	124.6	mg/L	0.60	19820	mg/kg	95.9	0.48%
Fe 239.562†	131212.5	126.5	mg/L	0.49	20120	mg/kg	77.8	0.39%
Fe 259.939†	447687.1	125.6	mg/L	3.07	19980	mg/kg	488.9	2.45%
Fe 273.955†	66363.3	135.8	mg/L	0.45	21600	mg/kg	71.8	0.33%
K 766.490†	2139.5	1.732	mg/L	0.0563	275.5	mg/kg	8.96	3.25%
Li 610.362†	2175.7	0.3433	mg/L	0.01428	54.60	mg/kg	2.271	4.16%
Li 670.784†	16741.7	0.4818	mg/L	0.00136	76.62	mg/kg	0.216	0.28%
Mg 279.077†	26486.4	67.93	mg/L	0.140	10800	mg/kg	22.3	0.21%
Mg 280.271†	3474686.8	62.77	mg/L	1.460	9983	mg/kg	232.2	2.33%
Mg 285.213†	281967.0	65.00	mg/L	1.530	10340	mg/kg	243.3	2.35%
Mn 257.610†	40788.5	2.961	mg/L	0.0134	470.8	mg/kg	2.13	0.45%
Mn 259.372†	40533.0	2.932	mg/L	0.0164	466.3	mg/kg	2.60	0.56%
Mn 260.568†	24070.7	2.906	mg/L	0.0052	462.2	mg/kg	0.83	0.18%
Mo 202.031†	22.3	1.603	mg/L	0.0996	255.0	mg/kg	15.84	6.21%
Mo 203.845†	37.5	0.9193	mg/L	0.10018	146.2	mg/kg	15.93	10.90%
Mo 204.597†	67.0	0.8988	mg/L	0.01037	142.9	mg/kg	1.65	1.15%
Na 588.995†	5768.3	0.9532	mg/L	0.00485	151.6	mg/kg	0.77	0.51%
Na 589.592†	2532.1	0.6760	mg/L	0.01676	107.5	mg/kg	2.67	2.48%
Ni 221.648†	46.4	0.5135	mg/L	0.02956	81.67	mg/kg	4.702	5.76%
Ni 231.604†	183.8	0.5714	mg/L	0.00706	90.87	mg/kg	1.123	1.24%

Ni 232.003†	116.0	0.5716	mg/L	0.02945	90.90	mg/kg	4.684	5.15%
Pb 217.000†	56.1	2.046	mg/L	0.0743	325.3	mg/kg	11.82	3.63%
Pb 220.353†	99.9	2.131	mg/L	0.0650	339.0	mg/kg	10.34	3.05%
Sb 206.836†	-0.2	-0.03663	mg/L	0.066732	-5.826	mg/kg	10.6126	182.17%
Sb 217.582†	-2.6	-0.1205	mg/L	0.02240	-19.16	mg/kg	3.563	18.60%
Sb 231.146†	1.9	0.01314	mg/L	0.079507	2.089	mg/kg	12.6443	605.16%
Se 196.026†	-1.8	-0.2209	mg/L	0.05664	-35.13	mg/kg	9.007	25.64%
Se 203.985†	1.3	-0.03728	mg/L	0.336248	-5.929	mg/kg	53.4746	901.91%
Sn 189.927†	10.4	1.148	mg/L	0.0700	182.6	mg/kg	11.13	6.09%
Sn 235.485†	2426.3	9.374	mg/L	0.1840	1491	mg/kg	29.3	1.96%
Sn 283.998†	266.8	0.5034	mg/L	0.01663	80.06	mg/kg	2.644	3.30%
Sr 407.771†	324581.6	0.9819	mg/L	0.02639	156.1	mg/kg	4.20	2.69%
Sr 421.552†	145463.0	0.9774	mg/L	0.00198	155.4	mg/kg	0.31	0.20%
Sr 460.733†	2190.5	1.007	mg/L	0.0183	160.2	mg/kg	2.90	1.81%
Ti 334.940†	14677.5	0.6667	mg/L	0.00186	106.0	mg/kg	0.30	0.28%
Ti 336.121†	10600.2	0.6749	mg/L	0.00202	107.3	mg/kg	0.32	0.30%
Ti 337.279†	5017.7	0.6553	mg/L	0.00247	104.2	mg/kg	0.39	0.38%
Tl 190.801†	1.7	0.3129	mg/L	0.49600	49.77	mg/kg	78.881	158.50%
Tl 276.787†	302.6	1.164	mg/L	0.2053	185.1	mg/kg	32.65	17.64%
Tl 351.924†	4.3	0.02023	mg/L	0.075563	3.217	mg/kg	12.0170	373.52%
V 290.880†	1429.7	0.4803	mg/L	0.00234	76.38	mg/kg	0.373	0.49%
V 309.310†	4969.1	0.5158	mg/L	0.00381	82.03	mg/kg	0.605	0.74%
V 310.230†	3911.5	0.5042	mg/L	0.00997	80.18	mg/kg	1.585	1.98%
Zn 202.548†	1123.7	3.181	mg/L	0.0132	505.9	mg/kg	2.10	0.42%
Zn 206.200†	1154.2	3.095	mg/L	0.0327	492.2	mg/kg	5.20	1.06%
Zn 213.857†	1624.5	3.269	mg/L	0.0180	519.9	mg/kg	2.87	0.55%

Sequence No.: 15 **Autosampler Location: 41**
Sample ID: B307012-MS5 **Date Collected: 7/25/03 12:17:38 PM**
Analyst:
Sample Wt: 0.5777 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: B307012-MS5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	172920.1						4411.59	2.55%
Ag 328.068†	3.0	0.00264	mg/L	0.001380	0.4569	mg/kg	0.23887	52.28%
Ag 338.289†	-9.4	0.00475	mg/L	0.002463	0.8222	mg/kg	0.42631	51.85%
Al 308.215†	7826.2	11.27	mg/L	0.073	1950	mg/kg	12.7	0.65%
Al 394.401†	9328.5	11.19	mg/L	0.027	1937	mg/kg	4.7	0.25%
Al 396.153†	22924.9	11.51	mg/L	0.084	1993	mg/kg	14.6	0.73%
As 188.979†	4.7	0.3902	mg/L	0.20535	67.54	mg/kg	35.546	52.63%
As 193.696†	4.8	0.8067	mg/L	0.23007	139.6	mg/kg	39.82	28.52%
As 197.197†	-6.3	-0.5278	mg/L	0.30947	-91.36	mg/kg	53.570	58.64%
B 208.889†	73.4	0.9930	mg/L	0.05931	171.9	mg/kg	10.27	5.97%
B 249.677†	545.4	1.060	mg/L	0.0282	183.4	mg/kg	4.88	2.66%
B 249.772†	1284.3	1.070	mg/L	0.0287	185.1	mg/kg	4.97	2.68%
Ba 233.527†	11266.4	4.855	mg/L	0.0277	840.4	mg/kg	4.80	0.57%
Ba 455.403†	599093.2	4.959	mg/L	0.0828	858.5	mg/kg	14.32	1.67%
Ba 493.408†	552661.3	4.949	mg/L	0.0803	856.7	mg/kg	13.90	1.62%
Be 234.861†	894.8	0.05450	mg/L	0.002609	9.434	mg/kg	0.4517	4.79%
Be 313.042†	3610.0	0.05069	mg/L	0.001186	8.774	mg/kg	0.2053	2.34%
Be 313.107†	1964.6	0.05274	mg/L	0.001135	9.129	mg/kg	0.1965	2.15%
Ca 315.887†	264075.3	137.2	mg/L	2.40	23750	mg/kg	416.2	1.75%
Ca 317.933†	275179.2	127.6	mg/L	2.56	22090	mg/kg	442.5	2.00%
Cd 214.440†	1050.8	0.9809	mg/L	0.02099	169.8	mg/kg	3.63	2.14%
Cd 226.502†	645.0	0.9702	mg/L	0.02534	167.9	mg/kg	4.39	2.61%
Cd 228.802†	721.8	0.7816	mg/L	0.01671	135.3	mg/kg	2.89	2.14%
Ce 413.380†	77.0	0.03936	mg/L	0.011817	6.814	mg/kg	2.0456	30.02%
Ce 413.764†	72.6	0.04955	mg/L	0.001758	8.577	mg/kg	0.3043	3.55%
Ce 418.660†	81.1	0.04416	mg/L	0.008336	7.645	mg/kg	1.4430	18.88%
Co 228.616†	345.1	0.4939	mg/L	0.00989	85.49	mg/kg	1.712	2.00%
Co 230.786†	330.9	0.4639	mg/L	0.01355	80.31	mg/kg	2.346	2.92%
Co 238.892†	438.8	0.5066	mg/L	0.05088	87.68	mg/kg	8.807	10.04%
Cr 205.560†	744.6	4.962	mg/L	0.0885	858.8	mg/kg	15.32	1.78%
Cr 267.716†	4833.5	5.054	mg/L	0.0300	874.8	mg/kg	5.20	0.59%
Cr 283.563†	24692.6	5.082	mg/L	0.0171	879.8	mg/kg	2.96	0.34%

Cu 224.700†	1513.3	4.706	mg/L	0.1005	814.7	mg/kg	17.40	2.14%
Cu 324.752†	34415.1	4.907	mg/L	0.0086	849.3	mg/kg	1.49	0.18%
Cu 327.393†	14852.3	4.886	mg/L	0.0099	845.8	mg/kg	1.71	0.20%
Fe 238.204†	218685.4	122.9	mg/L	0.90	21270	mg/kg	155.9	0.73%
Fe 239.562†	129412.1	124.8	mg/L	0.82	21610	mg/kg	141.7	0.66%
Fe 259.939†	440034.3	123.5	mg/L	2.15	21380	mg/kg	372.9	1.74%
Fe 273.955†	65288.1	133.6	mg/L	0.68	23130	mg/kg	117.6	0.51%
K 766.490†	2065.8	1.673	mg/L	0.0847	289.5	mg/kg	14.66	5.06%
Li 610.362†	3504.2	0.5475	mg/L	0.19746	94.77	mg/kg	34.181	36.07%
Li 670.784†	17763.7	0.5121	mg/L	0.00462	88.64	mg/kg	0.800	0.90%
Mg 279.077†	26089.4	66.90	mg/L	0.407	11580	mg/kg	70.4	0.61%
Mg 280.271†	3435338.1	62.06	mg/L	1.157	10740	mg/kg	200.2	1.86%
Mg 285.213†	279156.5	64.35	mg/L	1.113	11140	mg/kg	192.6	1.73%
Mn 257.610†	148217.6	10.77	mg/L	0.061	1864	mg/kg	10.5	0.57%
Mn 259.372†	141983.5	10.68	mg/L	0.075	1848	mg/kg	12.9	0.70%
Mn 260.568†	87353.2	10.57	mg/L	0.063	1829	mg/kg	10.9	0.59%
Mo 202.031†	9.8	0.5960	mg/L	0.26119	103.2	mg/kg	45.21	43.82%
Mo 203.845†	2.9	0.06470	mg/L	0.012489	11.20	mg/kg	2.162	19.30%
Mo 204.597†	2.3	0.02485	mg/L	0.019643	4.301	mg/kg	3.4002	79.05%
Na 588.995†	4965.5	0.8205	mg/L	0.08504	142.0	mg/kg	14.72	10.36%
Na 589.592†	2297.0	0.6132	mg/L	0.03987	106.1	mg/kg	6.90	6.50%
Ni 221.648†	179.7	1.968	mg/L	0.0371	340.7	mg/kg	6.43	1.89%
Ni 231.604†	650.3	2.025	mg/L	0.0613	350.6	mg/kg	10.61	3.03%
Ni 232.003†	438.8	2.067	mg/L	0.0773	357.8	mg/kg	13.38	3.74%
Pb 217.000†	153.2	5.937	mg/L	0.2305	1028	mg/kg	39.9	3.88%
Pb 220.353†	274.1	5.899	mg/L	0.1302	1021	mg/kg	22.5	2.21%
Sb 206.836†	2.5	-0.01777	mg/L	0.043904	-3.077	mg/kg	7.5999	247.01%
Sb 217.582†	-1.2	-0.05449	mg/L	0.112685	-9.432	mg/kg	19.5058	206.81%
Sb 231.146†	2.7	0.02743	mg/L	0.144150	4.747	mg/kg	24.9524	525.60%
Se 196.026†	0.4	-0.02291	mg/L	0.242521	-3.965	mg/kg	41.9805	>999.9%
Se 203.985†	9.3	0.1936	mg/L	0.31062	33.51	mg/kg	53.769	160.44%
Sn 189.927†	2.7	0.2802	mg/L	0.22650	48.50	mg/kg	39.207	80.84%
Sn 235.485†	2353.3	8.421	mg/L	1.0187	1458	mg/kg	176.3	12.10%
Sn 283.998†	812.9	0.05904	mg/L	0.014406	10.22	mg/kg	2.494	24.40%
Sr 407.771†	344244.4	1.041	mg/L	0.0173	180.2	mg/kg	2.99	1.66%
Sr 421.552†	154685.2	1.039	mg/L	0.0019	179.9	mg/kg	0.32	0.18%
Sr 460.733†	2364.5	1.091	mg/L	0.0350	188.9	mg/kg	6.06	3.21%
Ti 334.940†	14305.6	0.6488	mg/L	0.00311	112.3	mg/kg	0.54	0.48%
Ti 336.121†	10359.2	0.6592	mg/L	0.00466	114.1	mg/kg	0.81	0.71%
Ti 337.279†	4861.0	0.6347	mg/L	0.00599	109.9	mg/kg	1.04	0.94%
Tl 190.801†	1.2	0.2055	mg/L	0.13763	35.57	mg/kg	23.824	66.97%
Tl 276.787†	338.2	1.357	mg/L	0.4620	234.8	mg/kg	79.98	34.06%
Tl 351.924†	8.1	0.04495	mg/L	0.056684	7.781	mg/kg	9.8120	126.10%
V 290.880†	1497.2	0.5034	mg/L	0.01055	87.13	mg/kg	1.827	2.10%
V 309.310†	5090.7	0.5384	mg/L	0.00512	93.19	mg/kg	0.887	0.95%
V 310.230†	4205.4	0.5415	mg/L	0.00276	93.73	mg/kg	0.477	0.51%
Zn 202.548†	3936.7	11.14	mg/L	0.293	1929	mg/kg	50.7	2.63%
Zn 206.200†	4060.8	10.88	mg/L	0.264	1883	mg/kg	45.7	2.43%
Zn 213.857†	5728.5	11.56	mg/L	0.068	2001	mg/kg	11.7	0.59%

==========

Sequence No.: 16 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 7/25/03 12:21:31 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	291388.1						20301.38	6.97%
Ag 328.068†	25.4	0.00430	mg/L	0.001638	0.000	mg/kg	0.0000	0.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	2.9	0.00087	mg/L	0.002706	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	36.2	0.05239	mg/L	0.006165	0.000	mg/kg	0.0000	0.00%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	6.7	0.00773	mg/L	0.005123	0.000	mg/kg	0.0000	0.00%
Al 396.153†	7.5	0.00478	mg/L	0.001894	0.000	mg/kg	0.0000	0.00%
As 188.979†	1.9	0.2000	mg/L	0.00269	0.000	mg/kg	0.0000	0.00%

As 193.696†	0.9	0.1353 mg/L	0.05892	0.000 mg/kg	0.0000	0.00%
QC value greater than the upper limit for As 193.696 Recovery = Not calculated						
As 197.197†	-1.5	-0.2082 mg/L	0.04349	0.000 mg/kg	0.0000	0.00%
B 208.889†	-0.7	-0.00915 mg/L	0.029241	0.00000 mg/kg	0.000000	0.00%
B 249.677†	1.8	0.00351 mg/L	0.001697	0.000 mg/kg	0.0000	0.00%
QC value within limits for B 249.677 Recovery = Not calculated						
B 249.772†	5.9	0.00515 mg/L	0.001197	0.000 mg/kg	0.0000	0.00%
Ba 233.527†	4.5	0.00191 mg/L	0.000898	0.000 mg/kg	0.0000	0.00%
Ba 455.403†	52.8	0.00043 mg/L	0.000228	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ba 455.403 Recovery = Not calculated						
Ba 493.408†	183.6	0.00164 mg/L	0.000117	0.000 mg/kg	0.0000	0.00%
Be 234.861†	11.6	0.00083 mg/L	0.000030	0.000 mg/kg	0.0000	0.00%
Be 313.042†	-167.9	-0.00239 mg/L	0.000053	0.000 mg/kg	0.0000	0.00%
QC value within limits for Be 313.042 Recovery = Not calculated						
Be 313.107†	4.3	0.00012 mg/L	0.000063	0.000 mg/kg	0.0000	0.00%
Ca 315.887†	122.1	0.06345 mg/L	0.021343	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933†	438.8	0.2035 mg/L	0.01420	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	7.8	0.00731 mg/L	0.001260	0.000 mg/kg	0.0000	0.00%
Cd 226.502†	1.2	0.00180 mg/L	0.000470	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Cd 228.802†	6.4	0.00535 mg/L	0.002191	0.000 mg/kg	0.0000	0.00%
Ce 413.380†	4.3	0.00370 mg/L	0.011315	0.00000 mg/kg	0.000000	0.00%
Ce 413.764†	-21.8	-0.01831 mg/L	0.010462	0.000 mg/kg	0.0000	0.00%
Ce 418.660†	-75.2	-0.04608 mg/L	0.014964	0.000 mg/kg	0.0000	0.00%
Co 228.616†	2.3	0.00334 mg/L	0.002380	0.000 mg/kg	0.0000	0.00%
QC value within limits for Co 228.616 Recovery = Not calculated						
Co 230.786†	-8.4	-0.01203 mg/L	0.000317	0.000 mg/kg	0.0000	0.00%
Co 238.892†	-5.0	-0.00832 mg/L	0.005140	0.000 mg/kg	0.0000	0.00%
Cr 205.560†	1.6	0.01066 mg/L	0.006516	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	-7.8	-0.00813 mg/L	0.001714	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	-17.1	-0.00356 mg/L	0.000877	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cr 283.563 Recovery = Not calculated						
Cu 224.700†	-10.7	-0.03373 mg/L	0.004784	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	-109.4	-0.01556 mg/L	0.001046	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Cu 327.393†	-29.1	-0.00953 mg/L	0.000758	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	25.6	0.01441 mg/L	0.023356	0.00000 mg/kg	0.000000	0.00%
Fe 239.562†	29.6	0.02860 mg/L	0.024912	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	40.3	0.01134 mg/L	0.023947	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Fe 259.939 Recovery = Not calculated						
Fe 273.955†	16.2	0.03324 mg/L	0.027192	0.000 mg/kg	0.0000	0.00%
K 766.490†	-164.3	-0.1331 mg/L	0.02108	0.000 mg/kg	0.0000	0.00%
QC value less than the lower limit for K 766.490 Recovery = Not calculated						
Li 610.362†	-4882.2	-0.8990 mg/L	0.25363	0.000 mg/kg	0.0000	0.00%
Li 670.784†	-300.5	-0.00862 mg/L	0.001691	0.000 mg/kg	0.0000	0.00%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	3.4	0.00863 mg/L	0.013820	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mg 280.271†	2272.6	0.04103 mg/L	0.010886	0.000 mg/kg	0.0000	0.00%
Saturated within auto integration window (code 4)						
Mg 285.213†	175.2	0.04038 mg/L	0.011426	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	32.4	0.00237 mg/L	0.000600	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 259.372†	36.6	0.00291 mg/L	0.000470	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	11.5	0.00139 mg/L	0.000742	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	1.0	0.07692 mg/L	0.016535	0.000 mg/kg	0.0000	0.00%
Mo 203.845†	-2.1	-0.05209 mg/L	0.007669	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	-2.2	-0.02946 mg/L	0.008571	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mo 204.597 Recovery = Not calculated						
Na 588.995†	1231.1	0.2034 mg/L	0.08512	0.000 mg/kg	0.0000	0.00%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated						
Na 589.592†	-441.4	-0.1178 mg/L	0.01707	0.000 mg/kg	0.0000	0.00%
QC value less than the lower limit for Na 589.592 Recovery = Not calculated						
Ni 221.648†	-1.4	-0.01575 mg/L	0.018872	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	-0.4	-0.00120 mg/L	0.005187	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Ni 232.003†	-6.8	-0.03634 mg/L	0.009658	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	-4.5	-0.1791 mg/L	0.04375	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	5.7	0.1223 mg/L	0.02556	0.000 mg/kg	0.0000	0.00%

QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-2.5	-0.08588 mg/L	0.014680	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Sb 217.582†	-2.4	-0.1081 mg/L	0.02254	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	0.2	0.00821 mg/L	0.103265	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	0.1	0.00824 mg/L	0.044701	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Se 196.026 Recovery = Not calculated						
Se 203.985†	-3.6	-0.3636 mg/L	0.13748	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	0.7	0.08379 mg/L	0.027510	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	-3.7	-0.09862 mg/L	0.073717	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sn 235.485 Recovery = Not calculated						
Sn 283.998†	3.6	0.00471 mg/L	0.007024	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Sn 283.998 Recovery = Not calculated						
Sr 407.771†	-235.0	-0.00072 mg/L	0.000170	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	-19.1	-0.00013 mg/L	0.000158	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	85.3	0.03952 mg/L	0.017056	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sr 460.733 Recovery = Not calculated						
Ti 334.940†	3.1	0.00014 mg/L	0.000239	0.00000 mg/kg	0.000000	0.00%
Ti 336.121†	-34.7	-0.00222 mg/L	0.000221	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ti 336.121 Recovery = Not calculated						
Ti 337.279†	5.6	0.00073 mg/L	0.000845	0.00000 mg/kg	0.000000	0.00%
Tl 190.801†	0.4	0.07365 mg/L	0.172557	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 276.787†	-31.4	-0.2878 mg/L	0.01750	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	-7.7	-0.05167 mg/L	0.038472	0.000 mg/kg	0.0000	0.00%
V 290.880†	-57.9	-0.01906 mg/L	0.002323	0.000 mg/kg	0.0000	0.00%
V 309.310†	54.3	0.00810 mg/L	0.000565	0.000 mg/kg	0.0000	0.00%
V 310.230†	-689.9	-0.08914 mg/L	0.008670	0.000 mg/kg	0.0000	0.00%
QC value within limits for V 310.230 Recovery = Not calculated						
Zn 202.548†	-3.9	-0.01074 mg/L	0.001982	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	-4.0	-0.01078 mg/L	0.003487	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	-6.7	-0.01353 mg/L	0.001097	0.000 mg/kg	0.0000	0.00%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

==========

Sequence No.: 17 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 7/25/03 12:25:19 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	172273.2						1691.12	0.98%
Ag 328.068†	-0.1	-0.00001	mg/L	0.000284				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	3.7	0.00111	mg/L	0.000325				29.42%
Al 308.215†	30.4	0.04401	mg/L	0.007004				15.92%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	2.6	0.00438	mg/L	0.006144				140.39%
Al 396.153†	18.0	0.00981	mg/L	0.007414				75.59%
As 188.979†	1.8	0.1925	mg/L	0.25430				132.09%
As 193.696†	0.7	0.1098	mg/L	0.11564				105.32%
As 197.197†	0.9	0.1209	mg/L	0.26287				217.44%
B 208.889†	3.7	0.05207	mg/L	0.015182				29.16%
B 249.677†	4.2	0.00805	mg/L	0.002940				36.53%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	17.9	0.01578	mg/L	0.002596				16.45%
Ba 233.527†	5.1	0.00218	mg/L	0.001459				66.96%
Ba 455.403†	69.3	0.00057	mg/L	0.000166				29.03%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	32.8	0.00029	mg/L	0.000422				143.38%
Be 234.861†	5.1	0.00037	mg/L	0.000246				67.25%
Be 313.042†	-115.6	-0.00164	mg/L	0.000060				3.68%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	4.1	0.00011	mg/L	0.000038				34.39%
Ca 315.887†	71.9	0.03736	mg/L	0.006955				18.62%

QC value within limits for Ca 315.887 Recovery = Not calculated					
Ca 317.933†	356.8	0.1655	mg/L	0.00765	4.62%
Cd 214.440†	-0.1	-0.00010	mg/L	0.000840	876.54%
Cd 226.502†	1.2	0.00187	mg/L	0.001195	64.00%
Cd 228.802†	-0.4	-0.00170	mg/L	0.002265	133.14%
QC value within limits for Cd 228.802 Recovery = Not calculated					
Ce 413.380†	-22.4	-0.01920	mg/L	0.007796	40.60%
Ce 413.764†	3.4	0.00284	mg/L	0.006378	224.33%
Ce 418.660†	7.9	0.00481	mg/L	0.008035	167.20%
Co 228.616†	-2.4	-0.00342	mg/L	0.007874	230.05%
QC value within limits for Co 228.616 Recovery = Not calculated					
Co 230.786†	1.2	0.00177	mg/L	0.000686	38.77%
Co 238.892†	3.1	0.00508	mg/L	0.001099	21.64%
Cr 205.560†	0.1	0.00087	mg/L	0.003994	461.57%
Cr 267.716†	-1.7	-0.00180	mg/L	0.003921	217.29%
Cr 283.563†	-10.6	-0.00219	mg/L	0.001748	79.80%
QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	0.2	0.00052	mg/L	0.005930	>999.9%
Cu 324.752†	92.6	0.01330	mg/L	0.002382	17.91%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	34.6	0.01146	mg/L	0.001346	11.75%
Fe 238.204†	34.6	0.01947	mg/L	0.007560	38.83%
Fe 239.562†	23.8	0.02301	mg/L	0.005751	24.99%
Fe 259.939†	73.5	0.02064	mg/L	0.006238	30.22%
Fe 273.955†	10.3	0.02106	mg/L	0.006882	32.67%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	83.7	0.06778	mg/L	0.035653	52.60%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	1101.6	0.2029	mg/L	0.08222	40.53%
Li 670.784†	-39.8	-0.00114	mg/L	0.002978	261.62%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	0.7	0.00173	mg/L	0.015673	903.62%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	565.6	0.01021	mg/L	0.002085	20.43%
Mg 285.213†	47.5	0.01096	mg/L	0.001668	15.22%
Mn 257.610†	22.2	0.00162	mg/L	0.000256	15.80%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	17.2	0.00143	mg/L	0.000169	11.81%
Mn 260.568†	7.5	0.00090	mg/L	0.000628	69.75%
Mo 202.031†	-0.9	-0.07029	mg/L	0.125440	178.46%
Mo 203.845†	1.7	0.04144	mg/L	0.023680	57.14%
Mo 204.597†	-2.0	-0.02725	mg/L	0.005507	20.21%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	714.4	0.1180	mg/L	0.03745	31.73%
Na 589.592†	41.3	0.01103	mg/L	0.018010	163.35%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.9	0.01032	mg/L	0.018136	175.68%
Ni 231.604†	0.8	0.00235	mg/L	0.003511	149.47%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	0.3	0.00186	mg/L	0.025723	>999.9%
Pb 217.000†	1.6	0.06452	mg/L	0.126124	195.50%
Pb 220.353†	0.8	0.01759	mg/L	0.020963	119.16%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-1.7	-0.05724	mg/L	0.017456	30.50%
Sb 217.582†	-1.3	-0.05660	mg/L	0.023863	42.16%
Sb 231.146†	-0.0	-0.00222	mg/L	0.057054	>999.9%
Se 196.026†	-0.7	-0.07144	mg/L	0.097898	137.04%
Se 203.985†	-2.2	-0.2208	mg/L	0.22785	103.19%
Sn 189.927†	-0.8	-0.09104	mg/L	0.107600	118.19%
Sn 235.485†	-2.0	-0.05490	mg/L	0.084148	153.28%
Sn 283.998†	10.2	0.02588	mg/L	0.018766	72.51%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	76.3	0.00023	mg/L	0.000119	51.98%
Sr 421.552†	28.0	0.00019	mg/L	0.000123	65.65%
Sr 460.733†	25.8	0.01203	mg/L	0.014779	122.81%
Ti 334.940†	2.0	0.00009	mg/L	0.000336	368.75%
Ti 336.121†	-0.6	-0.00005	mg/L	0.000641	>999.9%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-9.0	-0.00117	mg/L	0.000648	55.24%
Tl 190.801†	0.4	0.06906	mg/L	0.338415	490.04%

Tl 276.787†	-3.2	-0.02999	mg/L	0.045205	150.75%
Tl 351.924†	3.3	0.02240	mg/L	0.061510	274.55%
V 290.880†	-4.4	-0.00144	mg/L	0.001104	76.79%
V 309.310†	62.0	0.00930	mg/L	0.001182	12.71%
V 310.230†	194.3	0.02511	mg/L	0.003516	14.00%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	13.2	0.03750	mg/L	0.001556	4.15%
Zn 206.200†	11.4	0.03046	mg/L	0.003040	9.98%
Zn 213.857†	16.2	0.03280	mg/L	0.007229	22.04%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analytes passed QC.

==========

Sequence No.: 18 **Autosampler Location:** 2
Sample ID: LCM1 **Date Collected:** 7/25/03 12:29:32 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	175272.2						518.26	0.30%
Ag 328.068†	1447.8	0.2458	mg/L	0.00263				1.07%
QC value within limits for Ag 328.068 Recovery = 98.31%								
Ag 338.289†	784.6	0.2465	mg/L	0.00150				0.61%
Al 308.215†	756.0	1.069	mg/L	0.0034				0.32%
QC value within limits for Al 308.215 Recovery = 106.93%								
Al 394.401†	908.8	1.016	mg/L	0.0081				0.80%
Al 396.153†	2078.2	1.053	mg/L	0.0210				2.00%
As 188.979†	21.3	2.275	mg/L	0.0812				3.57%
As 193.696†	13.9	2.209	mg/L	0.2091				9.47%
As 197.197†	16.0	2.174	mg/L	0.3989				18.35%
B 208.889†	67.7	0.9437	mg/L	0.02473				2.62%
B 249.677†	509.3	0.9852	mg/L	0.00545				0.55%
QC value within limits for B 249.677 Recovery = 98.52%								
B 249.772†	1105.5	0.9788	mg/L	0.00356				0.36%
Ba 233.527†	2363.3	1.020	mg/L	0.0072				0.71%
Ba 455.403†	124713.8	1.032	mg/L	0.0042				0.40%
QC value within limits for Ba 455.403 Recovery = 103.20%								
Ba 493.408†	114561.9	1.026	mg/L	0.0050				0.49%
Be 234.861†	13832.3	0.9969	mg/L	0.00847				0.85%
Be 313.042†	71913.3	1.019	mg/L	0.0048				0.47%
QC value within limits for Be 313.042 Recovery = 101.90%								
Be 313.107†	38014.5	1.020	mg/L	0.0018				0.18%
Ca 315.887†	2129.4	1.103	mg/L	0.0045				0.40%
Ca 317.933†	2486.9	1.151	mg/L	0.0064				0.56%
QC value greater than the upper limit for Ca 317.933 Recovery = 115.09%								
Cd 214.440†	1145.3	1.071	mg/L	0.0063				0.59%
Cd 226.502†	700.6	1.060	mg/L	0.0115				1.09%
Cd 228.802†	802.9	0.8511	mg/L	0.00661				0.78%
QC value less than the lower limit for Cd 228.802 Recovery = 85.11%								
Ce 413.380†	1218.7	1.042	mg/L	0.0426				4.09%
Ce 413.764†	1186.1	0.9938	mg/L	0.00530				0.53%
Ce 418.660†	1675.1	1.026	mg/L	0.0337				3.29%
Co 228.616†	723.6	1.043	mg/L	0.0022				0.21%
QC value within limits for Co 228.616 Recovery = 104.31%								
Co 230.786†	669.9	0.9560	mg/L	0.01218				1.27%
Co 238.892†	607.4	0.9986	mg/L	0.00258				0.26%
Cr 205.560†	151.2	1.007	mg/L	0.0098				0.98%
Cr 267.716†	954.1	0.9979	mg/L	0.00478				0.48%
Cr 283.563†	4829.0	1.004	mg/L	0.0093				0.93%
QC value within limits for Cr 283.563 Recovery = 100.43%								
Cu 224.700†	320.8	1.001	mg/L	0.0103				1.03%
Cu 324.752†	7234.2	1.033	mg/L	0.0069				0.66%
QC value within limits for Cu 324.752 Recovery = 103.26%								
Cu 327.393†	3092.2	1.019	mg/L	0.0094				0.93%
Fe 238.204†	1847.4	1.046	mg/L	0.0049				0.47%
Fe 239.562†	1094.0	1.062	mg/L	0.0079				0.75%

Fe 259.939†	3704.0	1.046	mg/L	0.0037	0.35%
QC value within limits for Fe 259.939 Recovery = 104.65%					
Fe 273.955†	553.0	1.133	mg/L	0.0035	0.31%
K 766.490†	6055.6	4.903	mg/L	0.1179	2.40%
QC value within limits for K 766.490 Recovery = 98.06%					
Li 610.362†	6117.5	1.098	mg/L	0.0307	2.80%
Li 670.784†	35703.4	1.024	mg/L	0.0077	0.75%
QC value less than the lower limit for Li 670.784 Recovery = 20.49%					
Mg 279.077†	405.6	1.039	mg/L	0.0121	1.16%
Mg 280.271†	56701.8	1.024	mg/L	0.0052	0.50%
QC value within limits for Mg 280.271 Recovery = 102.37%					
Mg 285.213†	4430.7	1.021	mg/L	0.0052	0.51%
Mn 257.610†	14060.2	1.022	mg/L	0.0043	0.42%
QC value within limits for Mn 257.610 Recovery = 102.16%					
Mn 259.372†	13257.5	1.010	mg/L	0.0021	0.21%
Mn 260.568†	8262.4	0.9994	mg/L	0.00330	0.33%
Mo 202.031†	0.8	0.06197	mg/L	0.052827	85.25%
Mo 203.845†	-0.1	-0.00263	mg/L	0.042187	>999.9%
Mo 204.597†	-0.2	-0.00391	mg/L	0.005988	153.33%
Na 588.995†	7491.7	1.238	mg/L	0.0193	1.56%
Na 589.592†	3887.7	1.038	mg/L	0.0134	1.29%
Ni 221.648†	96.1	1.049	mg/L	0.0091	0.87%
Ni 231.604†	326.2	1.017	mg/L	0.0060	0.59%
QC value within limits for Ni 231.604 Recovery = 101.73%					
Ni 232.003†	201.8	1.014	mg/L	0.0027	0.27%
Pb 217.000†	48.3	1.927	mg/L	0.0558	2.90%
Pb 220.353†	93.1	2.014	mg/L	0.0139	0.69%
QC value within limits for Pb 220.353 Recovery = 100.70%					
Sb 206.836†	-0.8	-0.04776	mg/L	0.027265	57.08%
Sb 217.582†	-0.8	-0.04099	mg/L	0.032098	78.30%
Sb 231.146†	6.7	0.1526	mg/L	0.07514	49.23%
Se 196.026†	9.4	0.9562	mg/L	0.05239	5.48%
Se 203.985†	10.0	0.8652	mg/L	0.37605	43.46%
Sn 189.927†	0.3	0.02718	mg/L	0.164174	604.03%
Sn 235.485†	13.5	-0.06299	mg/L	0.029527	46.88%
Sn 283.998†	175.3	0.00696	mg/L	0.019991	287.23%
Sr 407.771†	330944.4	1.004	mg/L	0.0042	0.42%
Sr 421.552†	149591.4	1.008	mg/L	0.0032	0.32%
Sr 460.733†	2219.6	1.024	mg/L	0.0116	1.13%
Ti 334.940†	13.9	0.00019	mg/L	0.000359	188.61%
Ti 336.121†	2.1	0.00006	mg/L	0.000267	481.21%
Ti 337.279†	-11.4	-0.00138	mg/L	0.000688	50.03%
Tl 190.801†	30.1	5.338	mg/L	0.0727	1.36%
Tl 276.787†	519.2	4.737	mg/L	0.0516	1.09%
Tl 351.924†	789.8	5.264	mg/L	0.0466	0.89%
V 290.880†	2959.8	0.9751	mg/L	0.00548	0.56%
V 309.310†	6706.3	1.006	mg/L	0.0087	0.87%
V 310.230†	7713.8	0.9954	mg/L	0.00975	0.98%
QC value within limits for V 310.230 Recovery = 99.54%					
Zn 202.548†	363.5	1.026	mg/L	0.0091	0.89%
Zn 206.200†	373.7	1.003	mg/L	0.0127	1.26%
Zn 213.857†	516.1	1.040	mg/L	0.0112	1.07%
QC value within limits for Zn 213.857 Recovery = 104.04%					

QC Failed. Continue with analysis.

Sequence No.: 19 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 7/25/03 12:33:35 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	174511.7						504.67	0.29%
Ag 328.068†	-2.9	0.00228	mg/L	0.001895				83.00%
Ag 338.289†	8.6	0.00334	mg/L	0.005011				149.91%
Al 308.215†	63.5	0.08014	mg/L	0.017100				21.34%

Al 394.401†	25.8	0.03076 mg/L	0.010379	33.74%
Al 396.153†	144.4	0.03880 mg/L	0.005931	15.29%
As 188.979†	1.9	0.1992 mg/L	0.05882	29.53%
As 193.696†	2.1	0.3278 mg/L	0.13792	42.07%
As 197.197†	-1.0	-0.1399 mg/L	0.20366	145.58%
B 208.889†	5.8	0.08142 mg/L	0.017778	21.83%
B 249.677†	5.4	0.01066 mg/L	0.002499	23.43%
B 249.772†	21.6	0.01938 mg/L	0.003094	15.97%
Ba 233.527†	-14.8	-0.00569 mg/L	0.002022	35.54%
Ba 455.403†	128.7	0.00096 mg/L	0.000185	19.26%
Ba 493.408†	108.0	0.00086 mg/L	0.000436	50.53%
Be 234.861†	7.6	0.00064 mg/L	0.000357	55.61%
Be 313.042†	-94.8	-0.00136 mg/L	0.000116	8.54%
Be 313.107†	13.8	0.00035 mg/L	0.000265	75.66%
Ca 315.887†	41.9	0.02195 mg/L	0.002561	11.67%
Ca 317.933†	304.9	0.1420 mg/L	0.00512	3.60%
Cd 214.440†	2.5	0.00246 mg/L	0.001198	48.62%
Cd 226.502†	-0.0	-0.00016 mg/L	0.001655	>999.9%
Cd 228.802†	-2.0	-0.00628 mg/L	0.002309	36.79%
Ce 413.380†	-8.7	-0.00761 mg/L	0.012950	170.22%
Ce 413.764†	-6.1	-0.00556 mg/L	0.015245	274.12%
Ce 418.660†	-5.7	-0.00380 mg/L	0.003473	91.42%
Co 228.616†	-4.4	-0.00748 mg/L	0.005143	68.76%
Co 230.786†	1.8	0.00221 mg/L	0.010616	480.15%
Co 238.892†	-0.7	-0.00071 mg/L	0.000922	129.07%
Cr 205.560†	0.7	0.00419 mg/L	0.017502	417.37%
Cr 267.716†	-3.0	-0.00323 mg/L	0.003942	122.07%
Cr 283.563†	-2.4	-0.00066 mg/L	0.000556	84.71%
Cu 224.700†	-4.3	-0.01677 mg/L	0.003722	22.19%
Cu 324.752†	-24.4	-0.00568 mg/L	0.000096	1.69%
Cu 327.393†	-13.5	-0.00655 mg/L	0.002285	34.88%
Fe 238.204†	-12.9	-0.00505 mg/L	0.001120	22.18%
Fe 239.562†	-3.0	-0.00070 mg/L	0.003242	460.26%
Fe 259.939†	-18.8	-0.00298 mg/L	0.001556	52.12%
Fe 273.955†	1.1	0.00482 mg/L	0.003566	73.98%
K 766.490†	58.9	0.04768 mg/L	0.027198	57.04%
Li 610.362†	731.5	0.1316 mg/L	0.04507	34.24%
Li 670.784†	55.0	0.00175 mg/L	0.000779	44.63%
Mg 279.077†	-8.8	-0.02205 mg/L	0.005122	23.23%
Mg 280.271†	247.3	0.00450 mg/L	0.000356	7.90%
Mg 285.213†	24.5	0.00572 mg/L	0.000270	4.72%
Mn 257.610†	9.2	0.00031 mg/L	0.000126	40.87%
Mn 259.372†	77.3	0.00072 mg/L	0.000477	66.26%
Mn 260.568†	-1.7	-0.00015 mg/L	0.000910	601.92%
Mo 202.031†	13.9	1.120 mg/L	0.0951	8.49%
Mo 203.845†	41.6	1.032 mg/L	0.0392	3.80%
Mo 204.597†	72.9	0.9811 mg/L	0.03853	3.93%
QC value within limits for Mo 204.597 Recovery = 98.11%				
Na 588.995†	934.5	0.1544 mg/L	0.01851	11.99%
Na 589.592†	65.5	0.01749 mg/L	0.019201	109.76%
Ni 221.648†	-1.7	-0.01785 mg/L	0.011471	64.25%
Ni 231.604†	0.7	0.00188 mg/L	0.008695	463.26%
Ni 232.003†	0.8	-0.00156 mg/L	0.015095	968.94%
Pb 217.000†	-0.4	-0.01362 mg/L	0.082540	606.01%
Pb 220.353†	0.1	0.00573 mg/L	0.034104	595.04%
Sb 206.836†	47.6	1.644 mg/L	0.0066	0.40%
QC value less than the lower limit for Sb 206.836 Recovery = 82.21%				
Sb 217.582†	48.1	2.144 mg/L	0.0662	3.09%
QC value within limits for Sb 217.582 Recovery = 107.21%				
Sb 231.146†	47.6	1.951 mg/L	0.0700	3.59%
QC value within limits for Sb 231.146 Recovery = 97.57%				
Se 196.026†	1.6	0.1525 mg/L	0.14486	95.00%
Se 203.985†	-0.5	-0.1135 mg/L	0.18275	160.95%
Sn 189.927†	42.7	4.825 mg/L	0.3184	6.60%
Sn 235.485†	217.3	5.078 mg/L	0.0629	1.24%
Sn 283.998†	895.8	2.307 mg/L	0.0249	1.08%
QC value less than the lower limit for Sn 283.998 Recovery = 46.14%				
Sr 407.771†	120.2	0.00024 mg/L	0.000246	102.01%
Sr 421.552†	95.7	0.00053 mg/L	0.000036	6.84%
Sr 460.733†	12.6	0.00655 mg/L	0.033846	516.52%

Ti 334.940†	21858.6	0.9880	mg/L	0.00811	0.82%
Ti 336.121†	15732.9	1.007	mg/L	0.0045	0.45%
QC value within limits for Ti 336.121 Recovery = 100.66%					
Ti 337.279†	7441.4	0.9730	mg/L	0.00453	0.47%
Tl 190.801†	2.6	0.4604	mg/L	0.12900	28.02%
Tl 276.787†	-2.3	-0.01868	mg/L	0.013082	70.03%
Tl 351.924†	10.0	0.06373	mg/L	0.051051	80.10%
V 290.880†	-3.8	-0.00132	mg/L	0.002929	222.49%
V 309.310†	56.6	0.00865	mg/L	0.000421	4.87%
V 310.230†	162.5	0.02104	mg/L	0.001903	9.04%
Zn 202.548†	4.2	0.01272	mg/L	0.002725	21.43%
Zn 206.200†	1.4	0.00451	mg/L	0.006894	152.72%
Zn 213.857†	4.7	0.01021	mg/L	0.004879	47.78%

QC Failed. Continue with analysis.

Sequence No.: 20 **Autosampler Location:** 4
Sample ID: Hi AQC **Date Collected:** 7/25/03 12:38:04 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	172947.4						3550.66	2.05%
Ag 328.068†	8.2	0.00247	mg/L	0.001303				52.87%
Ag 338.289†	6.7	0.00843	mg/L	0.001610				19.09%
Al 308.215†	69021.1	99.66	mg/L	0.505				0.51%
QC value within limits for Al 308.215 Recovery = 99.66%								
Al 394.401†	83433.8	99.74	mg/L	0.330				0.33%
Al 396.153†	204621.0	102.9	mg/L	3.00				2.91%
As 188.979†	3.6	0.3134	mg/L	0.13310				42.47%
As 193.696†	1.3	0.2219	mg/L	0.29076				131.02%
As 197.197†	-4.1	-0.3271	mg/L	0.10103				30.88%
B 208.889†	2.6	0.03041	mg/L	0.022851				75.13%
B 249.677†	3.9	0.00985	mg/L	0.002692				27.32%
B 249.772†	93.3	0.02792	mg/L	0.003370				12.07%
Ba 233.527†	19.4	-0.00094	mg/L	0.000913				97.22%
Ba 455.403†	84.3	0.00033	mg/L	0.000191				57.48%
Ba 493.408†	212.1	0.00075	mg/L	0.000141				18.78%
Be 234.861†	120.9	0.00071	mg/L	0.000422				59.69%
Be 313.042†	-99.6	-0.00160	mg/L	0.000113				7.06%
Be 313.107†	3.9	0.00009	mg/L	0.000015				15.91%
Ca 315.887†	204515.0	106.3	mg/L	0.82				0.77%
QC value within limits for Ca 315.887 Recovery = 106.29%								
Ca 317.933†	212192.0	98.41	mg/L	0.692				0.70%
Cd 214.440†	-0.2	0.00228	mg/L	0.001173				51.37%
Cd 226.502†	1.6	-0.00235	mg/L	0.004602				195.95%
Cd 228.802†	-2.4	-0.00375	mg/L	0.004274				113.96%
Ce 413.380†	5.9	-0.01426	mg/L	0.006337				44.46%
Ce 413.764†	10.6	0.00072	mg/L	0.006844				955.93%
Ce 418.660†	-17.6	-0.01318	mg/L	0.013489				102.37%
Co 228.616†	-5.5	-0.00818	mg/L	0.009171				112.13%
Co 230.786†	0.7	-0.00274	mg/L	0.006252				228.56%
Co 238.892†	112.1	0.01443	mg/L	0.037310				258.60%
Cr 205.560†	2.0	0.01242	mg/L	0.017568				141.47%
Cr 267.716†	-9.4	-0.00641	mg/L	0.003716				57.96%
Cr 283.563†	310.0	0.01627	mg/L	0.000737				4.53%
Cu 224.700†	-3.2	-0.02444	mg/L	0.010567				43.24%
Cu 324.752†	-84.9	-0.01463	mg/L	0.001272				8.69%
Cu 327.393†	-21.5	-0.01070	mg/L	0.000418				3.91%
Fe 238.204†	174480.8	98.02	mg/L	0.614				0.63%
Fe 239.562†	103127.9	99.45	mg/L	0.346				0.35%
Fe 259.939†	355204.7	99.67	mg/L	2.838				2.85%
Fe 273.955†	52033.5	106.5	mg/L	0.46				0.43%
QC value within limits for Fe 273.955 Recovery = 106.50%								
K 766.490†	121476.2	98.35	mg/L	0.331				0.34%
Li 610.362†	476.6	0.05207	mg/L	0.166307				319.39%

Li 670.784†	62.3	0.00311 mg/L	0.002161		69.44%
Mg 279.077†	23696.6	60.78 mg/L	0.307		0.51%
QC value within limits for Mg 279.077 Recovery = 101.30%					
Mg 280.271†	3168931.0	57.25 mg/L	1.584		2.77%
Mg 285.213†	256346.7	59.10 mg/L	1.588		2.69%
Mn 257.610†	17.2	-0.00155 mg/L	0.001587		102.40%
Mn 259.372†	1521.6	-0.00556 mg/L	0.001727		31.06%
Mn 260.568†	26.8	-0.00299 mg/L	0.000433		14.45%
Mo 202.031†	6.9	0.3900 mg/L	0.01272		3.26%
Mo 203.845†	3.9	0.06052 mg/L	0.055094		91.03%
Mo 204.597†	-0.7	-0.02136 mg/L	0.006049		28.33%
Na 588.995†	626001.2	103.4 mg/L	2.51		2.42%
Na 589.592†	376105.3	100.4 mg/L	2.68		2.67%
QC value within limits for Na 589.592 Recovery = 100.41%					
Ni 221.648†	1.0	0.01883 mg/L	0.015918		84.52%
Ni 231.604†	1.5	0.00296 mg/L	0.002668		90.24%
Ni 232.003†	1.7	0.01238 mg/L	0.022518		181.93%
Pb 217.000†	11.9	0.1373 mg/L	0.10846		79.01%
Pb 220.353†	1.1	0.1190 mg/L	0.01763		14.81%
Sb 206.836†	-0.6	-0.04348 mg/L	0.017177		39.50%
Sb 217.582†	-1.2	-0.08924 mg/L	0.042050		47.12%
Sb 231.146†	-1.3	-0.05249 mg/L	0.082012		156.25%
Se 196.026†	-0.9	-0.1413 mg/L	0.17174		121.51%
Se 203.985†	2.3	0.07173 mg/L	0.068580		95.61%
Sn 189.927†	2.3	0.2355 mg/L	0.17423		73.97%
Sn 235.485†	1848.3	6.064 mg/L	0.5135		8.47%
Sn 283.998†	-61.9	-0.05167 mg/L	0.009312		18.02%
Sr 407.771†	606.7	-0.00059 mg/L	0.000077		13.05%
Sr 421.552†	282.7	-0.00077 mg/L	0.000046		5.99%
Sr 460.733†	21.6	0.00264 mg/L	0.036226		>999.9%
Ti 334.940†	-29.1	0.00094 mg/L	0.000292		31.12%
Ti 336.121†	54.4	0.00024 mg/L	0.000509		210.35%
Ti 337.279†	7.8	-0.00036 mg/L	0.000932		258.86%
Tl 190.801†	0.8	0.1496 mg/L	0.31848		212.84%
Tl 276.787†	288.2	1.258 mg/L	0.0671		5.34%
Tl 351.924†	5.5	0.02885 mg/L	0.065980		228.68%
V 290.880†	-87.2	-0.02070 mg/L	0.000448		2.17%
V 309.310†	1772.9	-0.00658 mg/L	0.003310		50.29%
V 310.230†	174.0	0.02051 mg/L	0.005830		28.42%
Zn 202.548†	7.3	0.01727 mg/L	0.002684		15.54%
Zn 206.200†	0.0	0.00566 mg/L	0.002829		49.96%
Zn 213.857†	15.2	0.02227 mg/L	0.004096		18.39%

All analytes passed QC.

Sequence No.: 21 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 7/25/03 12:42:15 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	319435.7						2333.65	0.73%
Ag 328.068†	26.2	0.00445	mg/L	0.000338	0.000	mg/kg	0.0000	0.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-5.9	-0.00186	mg/L	0.001733	0.000	mg/kg	0.0000	0.00%
Al 308.215†	103.4	0.1493	mg/L	0.01081	0.000	mg/kg	0.0000	0.00%
QC value greater than the upper limit for Al 308.215 Recovery = Not calculated								
Al 394.401†	87.0	0.1036	mg/L	0.00766	0.000	mg/kg	0.0000	0.00%
Al 396.153†	200.2	0.1015	mg/L	0.00296	0.000	mg/kg	0.0000	0.00%
As 188.979†	1.6	0.1692	mg/L	0.06255	0.000	mg/kg	0.0000	0.00%
As 193.696†	1.5	0.2368	mg/L	0.05612	0.000	mg/kg	0.0000	0.00%
QC value greater than the upper limit for As 193.696 Recovery = Not calculated								
As 197.197†	0.4	0.05674	mg/L	0.074008	0.00000	mg/kg	0.000000	0.00%
B 208.889†	-0.6	-0.00876	mg/L	0.008446	0.000	mg/kg	0.0000	0.00%
B 249.677†	1.1	0.00213	mg/L	0.002506	0.00000	mg/kg	0.000000	0.00%
QC value within limits for B 249.677 Recovery = Not calculated								

B 249.772†	2.2	0.00189 mg/L	0.000729	0.000 mg/kg	0.0000	0.00%
Ba 233.527†	1.5	0.00063 mg/L	0.001041	0.00000 mg/kg	0.000000	0.00%
Ba 455.403†	-115.6	-0.00097 mg/L	0.000486	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ba 455.403 Recovery = Not calculated						
Ba 493.408†	21.9	0.00018 mg/L	0.000245	0.00000 mg/kg	0.000000	0.00%
Be 234.861†	16.3	0.00117 mg/L	0.000159	0.000 mg/kg	0.0000	0.00%
Be 313.042†	-155.8	-0.00221 mg/L	0.000021	0.000 mg/kg	0.0000	0.00%
QC value within limits for Be 313.042 Recovery = Not calculated						
Be 313.107†	8.3	0.00022 mg/L	0.000046	0.000 mg/kg	0.0000	0.00%
Ca 315.887†	189.4	0.09844 mg/L	0.006207	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933†	454.0	0.2105 mg/L	0.00695	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	7.3	0.00686 mg/L	0.001314	0.000 mg/kg	0.0000	0.00%
Cd 226.502†	0.3	0.00046 mg/L	0.001924	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Cd 228.802†	9.4	0.00747 mg/L	0.001090	0.000 mg/kg	0.0000	0.00%
Ce 413.380†	5.4	0.00465 mg/L	0.003243	0.000 mg/kg	0.0000	0.00%
Ce 413.764†	-39.6	-0.03323 mg/L	0.005776	0.000 mg/kg	0.0000	0.00%
Ce 418.660†	-104.0	-0.06374 mg/L	0.004092	0.000 mg/kg	0.0000	0.00%
Co 228.616†	5.5	0.00789 mg/L	0.001958	0.000 mg/kg	0.0000	0.00%
QC value within limits for Co 228.616 Recovery = Not calculated						
Co 230.786†	-10.5	-0.01502 mg/L	0.001170	0.000 mg/kg	0.0000	0.00%
Co 238.892†	-7.5	-0.01242 mg/L	0.001181	0.000 mg/kg	0.0000	0.00%
Cr 205.560†	0.3	0.00189 mg/L	0.005270	0.00000 mg/kg	0.000000	0.00%
Cr 267.716†	-9.0	-0.00937 mg/L	0.002232	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	-25.6	-0.00535 mg/L	0.000629	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cr 283.563 Recovery = Not calculated						
Cu 224.700†	-12.7	-0.03993 mg/L	0.005053	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	-144.0	-0.02049 mg/L	0.000397	0.000 mg/kg	0.0000	0.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Cu 327.393†	-42.0	-0.01378 mg/L	0.002425	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	47.8	0.02696 mg/L	0.005431	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	44.8	0.04332 mg/L	0.006254	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	85.1	0.02397 mg/L	0.005347	0.000 mg/kg	0.0000	0.00%
QC value within limits for Fe 259.939 Recovery = Not calculated						
Fe 273.955†	22.2	0.04553 mg/L	0.004733	0.000 mg/kg	0.0000	0.00%
K 766.490†	12.5	0.01012 mg/L	0.038589	0.00000 mg/kg	0.000000	0.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 610.362†	-6898.7	-1.270 mg/L	0.0272	0.000 mg/kg	0.0000	0.00%
Li 670.784†	-262.0	-0.00751 mg/L	0.000715	0.000 mg/kg	0.0000	0.00%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	12.3	0.03143 mg/L	0.003615	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mg 280.271†	3619.2	0.06536 mg/L	0.002799	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	269.8	0.06219 mg/L	0.003711	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	-24.0	-0.00173 mg/L	0.000047	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 259.372†	-14.8	-0.00106 mg/L	0.000383	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	-22.2	-0.00267 mg/L	0.000681	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	0.3	0.02236 mg/L	0.034574	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	-3.2	-0.07914 mg/L	0.008600	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	-1.7	-0.02251 mg/L	0.007627	0.000 mg/kg	0.0000	0.00%
QC value within limits for Mo 204.597 Recovery = Not calculated						
Na 588.995†	3176.3	0.5249 mg/L	0.02264	0.000 mg/kg	0.0000	0.00%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated						
Na 589.592†	73.7	0.01968 mg/L	0.012496	0.000 mg/kg	0.0000	0.00%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 221.648†	-0.2	-0.00262 mg/L	0.014301	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	-2.1	-0.00649 mg/L	0.003134	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Ni 232.003†	-6.5	-0.03416 mg/L	0.009939	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	-5.7	-0.2274 mg/L	0.00596	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	6.5	0.1389 mg/L	0.01286	0.000 mg/kg	0.0000	0.00%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.7	-0.09394 mg/L	0.035874	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Sb 217.582†	-3.2	-0.1449 mg/L	0.02095	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	1.6	0.06658 mg/L	0.062874	0.000 mg/kg	0.0000	0.00%
Se 196.026†	-0.6	-0.05844 mg/L	0.110768	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Se 196.026 Recovery = Not calculated						

Se 203.985†	-4.2	-0.4180 mg/L	0.20356	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	0.8	0.09256 mg/L	0.082269	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	-5.2	-0.1379 mg/L	0.05395	0.000 mg/kg	0.0000	0.00%
QC value less than the lower limit for Sn 235.485 Recovery = Not calculated						
Sn 283.998†	3.6	0.00845 mg/L	0.006392	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sn 283.998 Recovery = Not calculated						
Sr 407.771†	-420.2	-0.00128 mg/L	0.000077	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	-93.6	-0.00064 mg/L	0.000035	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	99.8	0.04623 mg/L	0.015283	0.000 mg/kg	0.0000	0.00%
QC value within limits for Sr 460.733 Recovery = Not calculated						
Ti 334.940†	-8.6	-0.00039 mg/L	0.000101	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	-40.8	-0.00261 mg/L	0.000737	0.000 mg/kg	0.0000	0.00%
QC value within limits for Ti 336.121 Recovery = Not calculated						
Ti 337.279†	8.8	0.00114 mg/L	0.000267	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	-0.4	-0.06343 mg/L	0.197413	0.00000 mg/kg	0.000000	0.00%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 276.787†	-30.5	-0.2807 mg/L	0.03723	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	-4.5	-0.03004 mg/L	0.022089	0.000 mg/kg	0.0000	0.00%
V 290.880†	-61.3	-0.02017 mg/L	0.001551	0.000 mg/kg	0.0000	0.00%
V 309.310†	58.3	0.00856 mg/L	0.000776	0.000 mg/kg	0.0000	0.00%
V 310.230†	-786.6	-0.1016 mg/L	0.00121	0.000 mg/kg	0.0000	0.00%
QC value less than the lower limit for V 310.230 Recovery = Not calculated						
Zn 202.548†	-6.6	-0.01838 mg/L	0.003336	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	-7.0	-0.01877 mg/L	0.001376	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	-8.7	-0.01758 mg/L	0.001155	0.000 mg/kg	0.0000	0.00%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

==========

Sequence No.: 22 **Autosampler Location: 43**
Sample ID: 0305007-05 **Date Collected: 7/25/03 12:46:25 PM**
Analyst:
Sample Wt: 0.4946 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: 0305007-05

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	172494.0						2824.44	1.64%
Ag 328.068†	-2.2	0.00194	mg/L	0.000963	0.3917	mg/kg	0.19475	49.72%
Ag 338.289†	0.8	0.00351	mg/L	0.002463	0.7097	mg/kg	0.49807	70.18%
Al 308.215†	4144.4	5.968	mg/L	0.1082	1207	mg/kg	21.9	1.81%
Al 394.401†	4985.5	6.000	mg/L	0.0141	1213	mg/kg	2.8	0.23%
Al 396.153†	12163.7	6.100	mg/L	0.0351	1233	mg/kg	7.1	0.58%
As 188.979†	3.7	0.3009	mg/L	0.15777	60.85	mg/kg	31.898	52.42%
As 193.696†	1.4	0.2743	mg/L	0.10278	55.46	mg/kg	20.780	37.47%
As 197.197†	-7.9	-0.7581	mg/L	0.07107	-153.3	mg/kg	14.37	9.37%
B 208.889†	12.5	0.1560	mg/L	0.05497	31.54	mg/kg	11.114	35.24%
B 249.677†	56.6	0.1111	mg/L	0.01169	22.45	mg/kg	2.363	10.53%
B 249.772†	178.0	0.1239	mg/L	0.00358	25.06	mg/kg	0.724	2.89%
Ba 233.527†	160.6	0.06358	mg/L	0.001100	12.85	mg/kg	0.222	1.73%
Ba 455.403†	7859.0	0.06472	mg/L	0.000111	13.08	mg/kg	0.022	0.17%
Ba 493.408†	7248.4	0.06411	mg/L	0.000967	12.96	mg/kg	0.196	1.51%
Be 234.861†	83.0	0.00092	mg/L	0.000729	0.1854	mg/kg	0.14745	79.53%
Be 313.042†	-57.0	-0.00102	mg/L	0.000082	-0.2052	mg/kg	0.01660	8.09%
Be 313.107†	30.6	0.00081	mg/L	0.000046	0.1647	mg/kg	0.00939	5.70%
Ca 315.887†	257403.6	133.8	mg/L	2.75	27050	mg/kg	556.5	2.06%
Ca 317.933†	267594.1	124.1	mg/L	2.66	25090	mg/kg	537.8	2.14%
Cd 214.440†	6.1	0.00441	mg/L	0.002184	0.8911	mg/kg	0.44154	49.55%
Cd 226.502†	2.0	0.00226	mg/L	0.003986	0.4562	mg/kg	0.80591	176.65%
Cd 228.802†	0.4	-0.00150	mg/L	0.003068	-0.3031	mg/kg	0.62031	204.67%
Ce 413.380†	52.9	0.03358	mg/L	0.005424	6.790	mg/kg	1.0967	16.15%
Ce 413.764†	60.2	0.04484	mg/L	0.006823	9.066	mg/kg	1.3795	15.22%
Ce 418.660†	40.6	0.02460	mg/L	0.016041	4.973	mg/kg	3.2431	65.21%
Co 228.616†	4.6	0.00652	mg/L	0.003077	1.318	mg/kg	0.6220	47.19%
Co 230.786†	7.7	0.00816	mg/L	0.002067	1.650	mg/kg	0.4179	25.33%
Co 238.892†	75.4	0.01671	mg/L	0.013528	3.378	mg/kg	2.7352	80.98%
Cr 205.560†	10.4	0.06795	mg/L	0.017373	13.74	mg/kg	3.513	25.57%
Cr 267.716†	43.9	0.04716	mg/L	0.005093	9.535	mg/kg	1.0297	10.80%

Cr 283.563†	442.2	0.06242	mg/L	0.002921	12.62	mg/kg	0.591	4.68%
Cu 224.700†	29.2	0.07785	mg/L	0.009766	15.74	mg/kg	1.975	12.54%
Cu 324.752†	684.6	0.09597	mg/L	0.000407	19.40	mg/kg	0.082	0.42%
Cu 327.393†	313.7	0.09973	mg/L	0.002336	20.16	mg/kg	0.472	2.34%
Fe 238.204†	110203.4	61.91	mg/L	0.237	12520	mg/kg	47.9	0.38%
Fe 239.562†	64995.1	62.68	mg/L	0.126	12670	mg/kg	25.4	0.20%
Fe 259.939†	221852.4	62.25	mg/L	0.095	12590	mg/kg	19.1	0.15%
Fe 273.955†	32766.0	67.07	mg/L	0.069	13560	mg/kg	13.9	0.10%
K 766.490†	1133.3	0.9176	mg/L	0.04929	185.5	mg/kg	9.97	5.37%
Li 610.362†	591.4	0.06603	mg/L	0.124345	13.35	mg/kg	25.141	188.31%
Li 670.784†	199.9	0.00689	mg/L	0.001754	1.392	mg/kg	0.3546	25.47%
Mg 279.077†	27243.8	69.90	mg/L	0.160	14130	mg/kg	32.3	0.23%
Mg 280.271†	3568663.0	64.48	mg/L	1.347	13040	mg/kg	272.4	2.09%
Mg 285.213†	289155.2	66.67	mg/L	1.252	13480	mg/kg	253.2	1.88%
Mn 257.610†	10529.1	0.7629	mg/L	0.00600	154.2	mg/kg	1.21	0.79%
Mn 259.372†	10930.1	0.7564	mg/L	0.00514	152.9	mg/kg	1.04	0.68%
Mn 260.568†	6251.5	0.7524	mg/L	0.00612	152.1	mg/kg	1.24	0.81%
Mo 202.031†	10.2	0.6317	mg/L	0.14099	127.7	mg/kg	28.50	22.32%
Mo 203.845†	2.1	0.05453	mg/L	0.023800	11.03	mg/kg	4.812	43.64%
Mo 204.597†	-0.8	-0.01058	mg/L	0.039056	-2.140	mg/kg	7.8964	369.03%
Na 588.995†	4247.2	0.7018	mg/L	0.04831	141.9	mg/kg	9.77	6.88%
Na 589.592†	1902.0	0.5077	mg/L	0.01407	102.7	mg/kg	2.85	2.77%
Ni 221.648†	1.3	0.02288	mg/L	0.019399	4.625	mg/kg	3.9221	84.80%
Ni 231.604†	20.0	0.06144	mg/L	0.001270	12.42	mg/kg	0.257	2.07%
Ni 232.003†	6.2	0.03429	mg/L	0.020521	6.934	mg/kg	4.1491	59.84%
Pb 217.000†	34.4	1.259	mg/L	0.0546	254.5	mg/kg	11.03	4.34%
Pb 220.353†	60.3	1.249	mg/L	0.0064	252.6	mg/kg	1.29	0.51%
Sb 206.836†	-1.4	-0.06724	mg/L	0.070675	-13.60	mg/kg	14.289	105.10%
Sb 217.582†	-3.8	-0.1411	mg/L	0.06391	-28.53	mg/kg	12.922	45.29%
Sb 231.146†	0.7	0.02756	mg/L	0.075367	5.572	mg/kg	15.2379	273.47%
Se 196.026†	-0.9	-0.1030	mg/L	0.09773	-20.83	mg/kg	19.760	94.86%
Se 203.985†	-0.9	-0.1324	mg/L	0.15622	-26.77	mg/kg	31.585	117.98%
Sn 189.927†	2.3	0.2380	mg/L	0.14374	48.13	mg/kg	29.063	60.39%
Sn 235.485†	1166.5	3.879	mg/L	0.4964	784.4	mg/kg	100.37	12.80%
Sn 283.998†	-30.0	-0.01069	mg/L	0.024746	-2.162	mg/kg	5.0032	231.41%
Sr 407.771†	16265.7	0.04631	mg/L	0.000074	9.363	mg/kg	0.0149	0.16%
Sr 421.552†	7313.4	0.04610	mg/L	0.000290	9.321	mg/kg	0.0587	0.63%
Sr 460.733†	112.5	0.04368	mg/L	0.020998	8.831	mg/kg	4.2455	48.08%
Ti 334.940†	9754.7	0.4446	mg/L	0.00129	89.88	mg/kg	0.260	0.29%
Ti 336.121†	7093.2	0.4506	mg/L	0.00364	91.11	mg/kg	0.736	0.81%
Ti 337.279†	3280.4	0.4282	mg/L	0.00927	86.58	mg/kg	1.875	2.17%
Tl 190.801†	1.0	0.2147	mg/L	0.06808	43.41	mg/kg	13.764	31.70%
Tl 276.787†	324.2	1.386	mg/L	0.2059	280.3	mg/kg	41.63	14.85%
Tl 351.924†	2.5	0.01106	mg/L	0.032122	2.236	mg/kg	6.4945	290.41%
V 290.880†	-23.5	0.00609	mg/L	0.004472	1.232	mg/kg	0.9041	73.37%
V 309.310†	1788.8	0.03122	mg/L	0.003673	6.311	mg/kg	0.7427	11.77%
V 310.230†	451.0	0.05722	mg/L	0.000568	11.57	mg/kg	0.115	0.99%
Zn 202.548†	370.8	1.048	mg/L	0.0302	211.8	mg/kg	6.11	2.88%
Zn 206.200†	379.6	1.018	mg/L	0.0185	205.9	mg/kg	3.73	1.81%
Zn 213.857†	544.9	1.091	mg/L	0.0170	220.5	mg/kg	3.43	1.56%

Sequence No.: 23
Sample ID: 0305007-06
Analyst:
Sample Wt: 0.6239 g
Dilution:

Autosampler Location: 45
Date Collected: 7/25/03 12:50:16 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	170703.0						2521.46	1.48%
Ag 328.068†	19.7	0.00768	mg/L	0.000321	1.231	mg/kg	0.0515	4.18%
Ag 338.289†	-89.4	0.01625	mg/L	0.000417	2.604	mg/kg	0.0669	2.57%
Al 308.215†	13899.5	20.08	mg/L	0.815	3219	mg/kg	130.7	4.06%
Al 394.401†	16753.6	20.10	mg/L	0.824	3222	mg/kg	132.1	4.10%
Al 396.153†	40649.1	20.45	mg/L	0.779	3277	mg/kg	124.8	3.81%
As 188.979†	5.8	0.5979	mg/L	0.15265	95.83	mg/kg	24.467	25.53%
As 193.696†	5.6	0.9181	mg/L	0.41410	147.1	mg/kg	66.37	45.11%

As 197.197†	0.0	0.2406 mg/L	0.13912	38.56 mg/kg	22.299	57.82%
B 208.889†	15.7	0.1746 mg/L	0.03785	27.98 mg/kg	6.066	21.68%
B 249.677†	64.2	0.1428 mg/L	0.00052	22.89 mg/kg	0.083	0.36%
B 249.772†	665.6	0.2270 mg/L	0.01396	36.38 mg/kg	2.238	6.15%
Ba 233.527†	952.9	0.3534 mg/L	0.00691	56.64 mg/kg	1.107	1.96%
Ba 455.403†	45420.6	0.3756 mg/L	0.01488	60.20 mg/kg	2.385	3.96%
Ba 493.408†	42166.8	0.3722 mg/L	0.01715	59.66 mg/kg	2.749	4.61%
Be 234.861†	751.5	0.00293 mg/L	0.005578	0.4697 mg/kg	0.89411	190.35%
Be 313.042†	64.8	0.00067 mg/L	0.000070	0.1072 mg/kg	0.01116	10.41%
Be 313.107†	91.6	0.00243 mg/L	0.000084	0.3898 mg/kg	0.01343	3.45%
Ca 315.887†	145543.8	75.66 mg/L	0.452	12130 mg/kg	72.4	0.60%
Ca 317.933†	151610.0	70.33 mg/L	0.349	11270 mg/kg	55.9	0.50%
Cd 214.440†	107.8	0.09401 mg/L	0.002222	15.07 mg/kg	0.356	2.36%
Cd 226.502†	84.3	0.08122 mg/L	0.004881	13.02 mg/kg	0.782	6.01%
Cd 228.802†	59.2	0.06417 mg/L	0.003937	10.29 mg/kg	0.631	6.13%
Ce 413.380†	207.9	0.04671 mg/L	0.018554	7.487 mg/kg	2.9738	39.72%
Ce 413.764†	114.0	0.06336 mg/L	0.006824	10.16 mg/kg	1.094	10.77%
Ce 418.660†	172.4	0.07891 mg/L	0.050871	12.65 mg/kg	8.154	64.47%
Co 228.616†	23.2	0.02257 mg/L	0.006933	3.617 mg/kg	1.1113	30.72%
Co 230.786†	32.9	0.02568 mg/L	0.002502	4.116 mg/kg	0.4010	9.74%
Co 238.892†	793.2	0.2076 mg/L	0.05092	33.27 mg/kg	8.162	24.53%
Cr 205.560†	240.6	1.611 mg/L	0.0602	258.3 mg/kg	9.65	3.74%
Cr 267.716†	1494.9	1.582 mg/L	0.0333	253.6 mg/kg	5.33	2.10%
Cr 283.563†	9883.9	1.739 mg/L	0.0708	278.8 mg/kg	11.35	4.07%
Cu 224.700†	325.7	0.9313 mg/L	0.02270	149.3 mg/kg	3.64	2.44%
Cu 324.752†	7059.5	0.9951 mg/L	0.03670	159.5 mg/kg	5.88	3.69%
Cu 327.393†	3039.6	0.9931 mg/L	0.02473	159.2 mg/kg	3.96	2.49%
Fe 238.204†	1075821.8	604.3 mg/L	2.82	96870 mg/kg	451.3	0.47%
Fe 239.562†	648432.7	625.3 mg/L	2.46	100200 mg/kg	394.9	0.39%
Fe 259.939†	2185442.3	613.2 mg/L	2.72	98280 mg/kg	435.9	0.44%
Fe 273.955†	336951.3	689.6 mg/L	3.42	110500 mg/kg	548.3	0.50%
K 766.490†	1725.3	1.397 mg/L	0.0275	223.9 mg/kg	4.40	1.97%
Li 610.362†	853.1	0.08212 mg/L	0.006152	13.16 mg/kg	0.986	7.49%
Li 670.784†	284.5	0.01041 mg/L	0.003071	1.669 mg/kg	0.4922	29.50%
Mg 279.077†	12634.2	32.21 mg/L	1.106	5162 mg/kg	177.3	3.43%
Mg 280.271†	1716332.9	30.95 mg/L	0.144	4961 mg/kg	23.0	0.46%
Mg 285.213†	137485.4	31.65 mg/L	0.152	5072 mg/kg	24.4	0.48%
Mn 257.610†	39712.1	2.876 mg/L	0.1081	460.9 mg/kg	17.33	3.76%
Mn 259.372†	47410.8	2.836 mg/L	0.1436	454.6 mg/kg	23.02	5.06%
Mn 260.568†	23566.6	2.819 mg/L	0.1023	451.9 mg/kg	16.40	3.63%
Mo 202.031†	7.9	0.4715 mg/L	0.18169	75.57 mg/kg	29.122	38.53%
Mo 203.845†	8.2	0.09883 mg/L	0.023036	15.84 mg/kg	3.692	23.31%
Mo 204.597†	5.1	0.05428 mg/L	0.014496	8.700 mg/kg	2.3234	26.71%
Na 588.995†	4009.0	0.6625 mg/L	0.04503	106.2 mg/kg	7.22	6.80%
Na 589.592†	1782.0	0.4757 mg/L	0.01485	76.25 mg/kg	2.381	3.12%
Ni 221.648†	28.5	0.3076 mg/L	0.04151	49.30 mg/kg	6.653	13.50%
Ni 231.604†	104.4	0.3174 mg/L	0.01228	50.87 mg/kg	1.968	3.87%
Ni 232.003†	85.8	0.3578 mg/L	0.04346	57.36 mg/kg	6.966	12.15%
Pb 217.000†	124.3	4.211 mg/L	0.1427	674.9 mg/kg	22.87	3.39%
Pb 220.353†	194.1	4.297 mg/L	0.1465	688.7 mg/kg	23.48	3.41%
Sb 206.836†	0.3	-0.00032 mg/L	0.075335	-0.05179 mg/kg	12.074822	>999.9%
Sb 217.582†	5.0	-0.02468 mg/L	0.021501	-3.956 mg/kg	3.4463	87.11%
Sb 231.146†	3.0	0.05549 mg/L	0.146723	8.894 mg/kg	23.5171	264.41%
Se 196.026†	-0.7	-0.1568 mg/L	0.18379	-25.13 mg/kg	29.459	117.22%
Se 203.985†	5.3	0.05838 mg/L	0.288594	9.357 mg/kg	46.2564	494.35%
Sn 189.927†	13.8	1.551 mg/L	0.2009	248.6 mg/kg	32.20	12.95%
Sn 235.485†	12205.8	44.76 mg/L	11.101	7174 mg/kg	1779.3	24.80%
Sn 283.998†	303.9	0.6250 mg/L	0.01204	100.2 mg/kg	1.93	1.93%
Sr 407.771†	21672.6	0.06453 mg/L	0.002785	10.34 mg/kg	0.446	4.32%
Sr 421.552†	9921.6	0.06425 mg/L	0.002540	10.30 mg/kg	0.407	3.95%
Sr 460.733†	164.7	0.06671 mg/L	0.024157	10.69 mg/kg	3.872	36.21%
Ti 334.940†	22563.7	1.022 mg/L	0.0448	163.8 mg/kg	7.19	4.39%
Ti 336.121†	16330.3	1.043 mg/L	0.0456	167.2 mg/kg	7.31	4.37%
Ti 337.279†	7637.8	0.9969 mg/L	0.04343	159.8 mg/kg	6.96	4.36%
Tl 190.801†	0.6	-0.02750 mg/L	0.128576	-4.407 mg/kg	20.6084	467.59%
Tl 276.787†	181.6	0.6019 mg/L	0.16048	96.47 mg/kg	25.723	26.66%
Tl 351.924†	6.4	0.01350 mg/L	0.043919	2.163 mg/kg	7.0394	325.38%
V 290.880†	499.0	0.1334 mg/L	0.00129	21.39 mg/kg	0.207	0.97%
V 309.310†	1577.8	0.1491 mg/L	0.00382	23.90 mg/kg	0.612	2.56%
V 310.230†	1238.3	0.1602 mg/L	0.00475	25.68 mg/kg	0.761	2.97%

Zn 202.548†	2493.6	7.063	mg/L	0.1230	1132	mg/kg	19.7	1.74%
Zn 206.200†	2575.2	6.911	mg/L	0.1292	1108	mg/kg	20.7	1.87%
Zn 213.857†	3621.1	7.282	mg/L	0.1355	1167	mg/kg	21.7	1.86%

Sequence No.: 24 **Autosampler Location: 47**
Sample ID: 0305007-07 **Date Collected: 7/25/03 12:54:57 PM**
Analyst:
Sample Wt: 0.5351 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: 0305007-07

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	173726.0						1847.08	1.06%
Ag 328.068†	-5.9	0.00153	mg/L	0.000489	0.2864	mg/kg	0.09134	31.89%
Ag 338.289†	-6.4	0.00298	mg/L	0.002252	0.5563	mg/kg	0.42082	75.65%
Al 308.215†	5363.7	7.730	mg/L	0.0379	1445	mg/kg	7.1	0.49%
Al 394.401†	6368.3	7.650	mg/L	0.0699	1430	mg/kg	13.1	0.91%
Al 396.153†	15610.0	7.835	mg/L	0.0196	1464	mg/kg	3.7	0.25%
As 188.979†	3.8	0.3206	mg/L	0.09215	59.91	mg/kg	17.222	28.75%
As 193.696†	1.7	0.3143	mg/L	0.37695	58.73	mg/kg	70.445	119.94%
As 197.197†	-3.2	-0.1565	mg/L	0.26996	-29.24	mg/kg	50.450	172.52%
B 208.889†	13.1	0.1644	mg/L	0.01278	30.72	mg/kg	2.389	7.78%
B 249.677†	54.9	0.1084	mg/L	0.00270	20.25	mg/kg	0.505	2.49%
B 249.772†	196.7	0.1273	mg/L	0.00397	23.79	mg/kg	0.742	3.12%
Ba 233.527†	212.3	0.08384	mg/L	0.003008	15.67	mg/kg	0.562	3.59%
Ba 455.403†	10478.4	0.08641	mg/L	0.000533	16.15	mg/kg	0.100	0.62%
Ba 493.408†	9770.0	0.08652	mg/L	0.000992	16.17	mg/kg	0.185	1.15%
Be 234.861†	115.7	0.00145	mg/L	0.001683	0.2714	mg/kg	0.31446	115.88%
Be 313.042†	-41.7	-0.00080	mg/L	0.000077	-0.1493	mg/kg	0.01444	9.67%
Be 313.107†	31.7	0.00084	mg/L	0.000139	0.1569	mg/kg	0.02588	16.50%
Ca 315.887†	228994.1	119.0	mg/L	0.61	22240	mg/kg	113.9	0.51%
Ca 317.933†	237006.5	109.9	mg/L	0.95	20540	mg/kg	176.7	0.86%
Cd 214.440†	13.7	0.01145	mg/L	0.000100	2.140	mg/kg	0.0188	0.88%
Cd 226.502†	7.1	0.00782	mg/L	0.002630	1.462	mg/kg	0.4915	33.62%
Cd 228.802†	6.2	0.00460	mg/L	0.004398	0.8596	mg/kg	0.82192	95.61%
Ce 413.380†	72.1	0.04509	mg/L	0.002682	8.426	mg/kg	0.5012	5.95%
Ce 413.764†	58.1	0.04212	mg/L	0.009633	7.872	mg/kg	1.8003	22.87%
Ce 418.660†	68.2	0.04015	mg/L	0.012072	7.503	mg/kg	2.2560	30.07%
Co 228.616†	8.9	0.01195	mg/L	0.003362	2.233	mg/kg	0.6284	28.14%
Co 230.786†	11.5	0.01288	mg/L	0.004655	2.406	mg/kg	0.8699	36.15%
Co 238.892†	101.5	0.02050	mg/L	0.018098	3.830	mg/kg	3.3821	88.30%
Cr 205.560†	26.3	0.1744	mg/L	0.00783	32.58	mg/kg	1.462	4.49%
Cr 267.716†	149.5	0.1583	mg/L	0.00247	29.59	mg/kg	0.462	1.56%
Cr 283.563†	1048.3	0.1770	mg/L	0.00275	33.09	mg/kg	0.513	1.55%
Cu 224.700†	60.7	0.1739	mg/L	0.01463	32.50	mg/kg	2.735	8.41%
Cu 324.752†	1337.4	0.1888	mg/L	0.00210	35.28	mg/kg	0.393	1.11%
Cu 327.393†	589.4	0.1906	mg/L	0.00519	35.62	mg/kg	0.969	2.72%
Fe 238.204†	150434.1	84.51	mg/L	0.398	15790	mg/kg	74.4	0.47%
Fe 239.562†	88657.0	85.50	mg/L	0.251	15980	mg/kg	46.9	0.29%
Fe 259.939†	302096.1	84.76	mg/L	0.701	15840	mg/kg	131.1	0.83%
Fe 273.955†	44828.3	91.75	mg/L	0.565	17150	mg/kg	105.5	0.62%
K 766.490†	1199.2	0.9710	mg/L	0.05625	181.5	mg/kg	10.51	5.79%
Li 610.362†	319.3	0.01754	mg/L	0.083133	3.278	mg/kg	15.5360	473.89%
Li 670.784†	214.6	0.00728	mg/L	0.001704	1.361	mg/kg	0.3184	23.39%
Mg 279.077†	24779.7	63.56	mg/L	0.308	11880	mg/kg	57.6	0.49%
Mg 280.271†	3280723.1	59.27	mg/L	0.498	11080	mg/kg	93.1	0.84%
Mg 285.213†	264744.4	61.04	mg/L	0.393	11410	mg/kg	73.5	0.64%
Mn 257.610†	11955.1	0.8663	mg/L	0.00480	161.9	mg/kg	0.90	0.55%
Mn 259.372†	12607.9	0.8565	mg/L	0.00297	160.1	mg/kg	0.55	0.35%
Mn 260.568†	7077.3	0.8513	mg/L	0.00429	159.1	mg/kg	0.80	0.50%
Mo 202.031†	9.4	0.5802	mg/L	0.07558	108.4	mg/kg	14.12	13.03%
Mo 203.845†	2.5	0.05853	mg/L	0.025248	10.94	mg/kg	4.718	43.14%
Mo 204.597†	0.7	0.00850	mg/L	0.005407	1.588	mg/kg	1.0105	63.63%
Na 588.995†	4854.1	0.8021	mg/L	0.03518	149.9	mg/kg	6.57	4.39%
Na 589.592†	2101.1	0.5609	mg/L	0.00847	104.8	mg/kg	1.58	1.51%
Ni 221.648†	5.8	0.07004	mg/L	0.015280	13.09	mg/kg	2.856	21.82%
Ni 231.604†	29.3	0.09018	mg/L	0.005146	16.85	mg/kg	0.962	5.71%

Ni 232.003†	18.2	0.09080	mg/L	0.013302	16.97	mg/kg	2.486	14.65%
Pb 217.000†	33.8	1.212	mg/L	0.0945	226.5	mg/kg	17.66	7.80%
Pb 220.353†	62.6	1.314	mg/L	0.0234	245.6	mg/kg	4.37	1.78%
Sb 206.836†	-1.1	-0.05696	mg/L	0.027937	-10.64	mg/kg	5.221	49.05%
Sb 217.582†	-0.6	-0.01346	mg/L	0.015398	-2.515	mg/kg	2.8776	114.41%
Sb 231.146†	-1.7	-0.07594	mg/L	0.072272	-14.19	mg/kg	13.506	95.17%
Se 196.026†	2.1	0.1945	mg/L	0.00841	36.35	mg/kg	1.572	4.33%
Se 203.985†	-0.1	-0.07677	mg/L	0.190148	-14.35	mg/kg	35.535	247.70%
Sn 189.927†	1.6	0.1594	mg/L	0.07059	29.78	mg/kg	13.191	44.29%
Sn 235.485†	1591.5	5.206	mg/L	0.3304	972.8	mg/kg	61.75	6.35%
Sn 283.998†	-2.7	0.02821	mg/L	0.013038	5.271	mg/kg	2.4365	46.22%
Sr 407.771†	16646.7	0.04781	mg/L	0.000371	8.935	mg/kg	0.0694	0.78%
Sr 421.552†	7581.3	0.04820	mg/L	0.000577	9.008	mg/kg	0.1078	1.20%
Sr 460.733†	98.1	0.03765	mg/L	0.018690	7.036	mg/kg	3.4927	49.64%
Ti 334.940†	12002.8	0.5457	mg/L	0.00250	102.0	mg/kg	0.47	0.46%
Ti 336.121†	8739.9	0.5563	mg/L	0.00297	104.0	mg/kg	0.55	0.53%
Ti 337.279†	4072.1	0.5318	mg/L	0.00693	99.38	mg/kg	1.295	1.30%
Tl 190.801†	0.3	0.07305	mg/L	0.474542	13.65	mg/kg	88.683	649.64%
Tl 276.787†	259.6	0.9208	mg/L	0.27713	172.1	mg/kg	51.79	30.10%
Tl 351.924†	2.9	0.01214	mg/L	0.042351	2.269	mg/kg	7.9146	348.75%
V 290.880†	35.5	0.02251	mg/L	0.002147	4.207	mg/kg	0.4012	9.54%
V 309.310†	1801.3	0.05455	mg/L	0.003015	10.19	mg/kg	0.563	5.53%
V 310.230†	502.2	0.06392	mg/L	0.005393	11.95	mg/kg	1.008	8.44%
Zn 202.548†	601.7	1.703	mg/L	0.0151	318.2	mg/kg	2.83	0.89%
Zn 206.200†	621.6	1.667	mg/L	0.0220	311.5	mg/kg	4.11	1.32%
Zn 213.857†	874.8	1.757	mg/L	0.0245	328.4	mg/kg	4.58	1.39%

Sequence No.: 25 **Autosampler Location: 49**
Sample ID: 0305007-08 **Date Collected: 7/25/03 12:59:05 PM**
Analyst:
Sample Wt: 0.5401 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: 0305007-08

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	171324.0						898.10	0.52%
Ag 328.068†	-1.7	0.00236	mg/L	0.000225	0.4370	mg/kg	0.04159	9.52%
Ag 338.289†	-21.4	0.00597	mg/L	0.003437	1.105	mg/kg	0.6364	57.59%
Al 308.215†	7806.5	11.26	mg/L	0.023	2085	mg/kg	4.2	0.20%
Al 394.401†	9306.3	11.17	mg/L	0.051	2068	mg/kg	9.4	0.46%
Al 396.153†	22672.6	11.39	mg/L	0.027	2109	mg/kg	5.0	0.24%
As 188.979†	5.3	0.5021	mg/L	0.13148	92.97	mg/kg	24.343	26.18%
As 193.696†	2.2	0.3913	mg/L	0.16905	72.46	mg/kg	31.300	43.20%
As 197.197†	-2.4	-0.05247	mg/L	0.195456	-9.715	mg/kg	36.1888	372.49%
B 208.889†	13.9	0.1714	mg/L	0.01934	31.74	mg/kg	3.581	11.28%
B 249.677†	57.9	0.1176	mg/L	0.01270	21.78	mg/kg	2.352	10.80%
B 249.772†	289.7	0.1483	mg/L	0.00225	27.46	mg/kg	0.417	1.52%
Ba 233.527†	416.7	0.1623	mg/L	0.00071	30.05	mg/kg	0.131	0.43%
Ba 455.403†	20696.6	0.1710	mg/L	0.00010	31.66	mg/kg	0.019	0.06%
Ba 493.408†	19159.4	0.1698	mg/L	0.00050	31.43	mg/kg	0.093	0.30%
Be 234.861†	237.7	0.00163	mg/L	0.002105	0.3021	mg/kg	0.38982	129.03%
Be 313.042†	-11.6	-0.00037	mg/L	0.000067	-0.06781	mg/kg	0.012340	18.20%
Be 313.107†	57.2	0.00152	mg/L	0.000144	0.2815	mg/kg	0.02666	9.47%
Ca 315.887†	208385.7	108.3	mg/L	0.38	20050	mg/kg	70.6	0.35%
Ca 317.933†	215353.3	99.88	mg/L	0.344	18490	mg/kg	63.8	0.34%
Cd 214.440†	28.4	0.02417	mg/L	0.002423	4.475	mg/kg	0.4487	10.03%
Cd 226.502†	20.7	0.01986	mg/L	0.002789	3.676	mg/kg	0.5165	14.05%
Cd 228.802†	9.8	0.00936	mg/L	0.002907	1.732	mg/kg	0.5382	31.06%
Ce 413.380†	100.9	0.04755	mg/L	0.026478	8.804	mg/kg	4.9024	55.69%
Ce 413.764†	77.0	0.05307	mg/L	0.005803	9.826	mg/kg	1.0744	10.93%
Ce 418.660†	129.9	0.07312	mg/L	0.025049	13.54	mg/kg	4.638	34.26%
Co 228.616†	14.5	0.01821	mg/L	0.003642	3.371	mg/kg	0.6743	20.00%
Co 230.786†	21.6	0.02387	mg/L	0.006547	4.419	mg/kg	1.2122	27.43%
Co 238.892†	222.2	0.03427	mg/L	0.033671	6.346	mg/kg	6.2341	98.24%
Cr 205.560†	39.7	0.2656	mg/L	0.01515	49.18	mg/kg	2.804	5.70%
Cr 267.716†	253.3	0.2696	mg/L	0.00699	49.92	mg/kg	1.294	2.59%
Cr 283.563†	1972.4	0.3153	mg/L	0.00466	58.37	mg/kg	0.864	1.48%

Cu 224.700†	150.9	0.4413 mg/L	0.00480	81.71 mg/kg	0.888	1.09%
Cu 324.752†	3332.8	0.4714 mg/L	0.00172	87.28 mg/kg	0.319	0.37%
Cu 327.393†	1442.7	0.4708 mg/L	0.00297	87.18 mg/kg	0.550	0.63%
Fe 238.204†	338053.8	189.9 mg/L	1.98	35160 mg/kg	367.1	1.04%
Fe 239.562†	199704.5	192.6 mg/L	0.70	35660 mg/kg	128.9	0.36%
Fe 259.939†	681700.1	191.3 mg/L	1.88	35410 mg/kg	347.7	0.98%
Fe 273.955†	101564.2	207.9 mg/L	0.59	38490 mg/kg	108.8	0.28%
K 766.490†	1679.2	1.360 mg/L	0.0677	251.7 mg/kg	12.54	4.98%
Li 610.362†	904.1	0.1186 mg/L	0.05436	21.96 mg/kg	10.064	45.83%
Li 670.784†	335.5	0.01095 mg/L	0.002936	2.028 mg/kg	0.5435	26.80%
Mg 279.077†	20506.4	52.56 mg/L	0.051	9732 mg/kg	9.5	0.10%
Mg 280.271†	2745207.2	49.58 mg/L	0.485	9181 mg/kg	89.8	0.98%
Mg 285.213†	219705.6	50.64 mg/L	0.203	9376 mg/kg	37.5	0.40%
Mn 257.610†	19070.6	1.382 mg/L	0.0014	255.9 mg/kg	0.25	0.10%
Mn 259.372†	20983.9	1.364 mg/L	0.0017	252.6 mg/kg	0.31	0.12%
Mn 260.568†	11308.7	1.358 mg/L	0.0095	251.5 mg/kg	1.75	0.70%
Mo 202.031†	7.7	0.4548 mg/L	0.11270	84.20 mg/kg	20.867	24.78%
Mo 203.845†	6.6	0.1390 mg/L	0.08797	25.73 mg/kg	16.288	63.30%
Mo 204.597†	1.4	0.01543 mg/L	0.024859	2.857 mg/kg	4.6027	161.11%
Na 588.995†	5349.3	0.8839 mg/L	0.01061	163.7 mg/kg	1.96	1.20%
Na 589.592†	2624.2	0.7006 mg/L	0.02073	129.7 mg/kg	3.84	2.96%
Ni 221.648†	16.6	0.1860 mg/L	0.02002	34.44 mg/kg	3.707	10.76%
Ni 231.604†	69.7	0.2148 mg/L	0.00205	39.77 mg/kg	0.380	0.96%
Ni 232.003†	44.7	0.2220 mg/L	0.01939	41.11 mg/kg	3.590	8.73%
Pb 217.000†	66.3	2.392 mg/L	0.0335	442.9 mg/kg	6.20	1.40%
Pb 220.353†	117.7	2.532 mg/L	0.0843	468.7 mg/kg	15.60	3.33%
Sb 206.836†	1.3	0.03154 mg/L	0.012760	5.840 mg/kg	2.3626	40.46%
Sb 217.582†	-1.9	-0.1228 mg/L	0.06489	-22.73 mg/kg	12.015	52.86%
Sb 231.146†	0.9	0.01867 mg/L	0.053310	3.457 mg/kg	9.8704	285.52%
Se 196.026†	-0.2	-0.05361 mg/L	0.245145	-9.926 mg/kg	45.3888	457.25%
Se 203.985†	2.7	0.1498 mg/L	0.20775	27.73 mg/kg	38.465	138.72%
Sn 189.927†	3.6	0.3887 mg/L	0.27210	71.97 mg/kg	50.380	70.00%
Sn 235.485†	3649.8	12.81 mg/L	0.864	2373 mg/kg	159.9	6.74%
Sn 283.998†	9.0	0.09949 mg/L	0.013148	18.42 mg/kg	2.434	13.22%
Sr 407.771†	22974.5	0.06735 mg/L	0.000394	12.47 mg/kg	0.073	0.58%
Sr 421.552†	10440.8	0.06759 mg/L	0.000259	12.52 mg/kg	0.048	0.38%
Sr 460.733†	183.8	0.07721 mg/L	0.029096	14.30 mg/kg	5.387	37.68%
Ti 334.940†	12608.1	0.5728 mg/L	0.00172	106.1 mg/kg	0.32	0.30%
Ti 336.121†	9169.7	0.5840 mg/L	0.00114	108.1 mg/kg	0.21	0.19%
Ti 337.279†	4277.3	0.5584 mg/L	0.00221	103.4 mg/kg	0.41	0.40%
Tl 190.801†	-0.2	-0.05093 mg/L	0.352227	-9.430 mg/kg	65.2151	691.60%
Tl 276.787†	256.9	1.081 mg/L	0.2625	200.2 mg/kg	48.59	24.27%
Tl 351.924†	5.6	0.02627 mg/L	0.078893	4.863 mg/kg	14.6070	300.35%
V 290.880†	120.2	0.04103 mg/L	0.000764	7.597 mg/kg	0.1414	1.86%
V 309.310†	1580.0	0.06204 mg/L	0.005971	11.49 mg/kg	1.106	9.62%
V 310.230†	630.0	0.08069 mg/L	0.001382	14.94 mg/kg	0.256	1.71%
Zn 202.548†	857.3	2.425 mg/L	0.0156	449.1 mg/kg	2.88	0.64%
Zn 206.200†	880.4	2.363 mg/L	0.0055	437.5 mg/kg	1.02	0.23%
Zn 213.857†	1246.8	2.504 mg/L	0.0166	463.6 mg/kg	3.08	0.66%

Sequence No.: 26 **Autosampler Location: 51**
Sample ID: 0305007-09 **Date Collected: 7/25/03 1:03:13 PM**
Analyst:
Sample Wt: 0.5215 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: 0305007-09

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	172019.7						313.41	0.18%
Ag 328.068†	-9.5	0.00114	mg/L	0.003021	0.2186	mg/kg	0.57928	264.94%
Ag 338.289†	-6.1	0.00297	mg/L	0.001936	0.5704	mg/kg	0.37123	65.08%
Al 308.215†	5605.2	8.077	mg/L	0.0477	1549	mg/kg	9.1	0.59%
Al 394.401†	6695.8	8.047	mg/L	0.0520	1543	mg/kg	10.0	0.65%
Al 396.153†	16409.1	8.235	mg/L	0.0105	1579	mg/kg	2.0	0.13%
As 188.979†	4.0	0.3302	mg/L	0.10330	63.32	mg/kg	19.808	31.28%
As 193.696†	3.8	0.6414	mg/L	0.32541	123.0	mg/kg	62.40	50.73%
As 197.197†	-5.2	-0.3871	mg/L	0.17037	-74.22	mg/kg	32.670	44.02%

B 208.889†	14.7	0.1849 mg/L	0.03642	35.45 mg/kg	6.983	19.70%
B 249.677†	71.0	0.1397 mg/L	0.00721	26.78 mg/kg	1.382	5.16%
B 249.772†	234.3	0.1603 mg/L	0.00510	30.75 mg/kg	0.978	3.18%
Ba 233.527†	213.7	0.08434 mg/L	0.001438	16.17 mg/kg	0.276	1.71%
Ba 455.403†	10860.4	0.08951 mg/L	0.000228	17.16 mg/kg	0.044	0.25%
Ba 493.408†	10060.9	0.08907 mg/L	0.000472	17.08 mg/kg	0.091	0.53%
Be 234.861†	104.3	0.00056 mg/L	0.000296	0.1076 mg/kg	0.05671	52.68%
Be 313.042†	-49.4	-0.00092 mg/L	0.000020	-0.1771 mg/kg	0.00388	2.19%
Be 313.107†	36.5	0.00097 mg/L	0.000049	0.1858 mg/kg	0.00944	5.08%
Ca 315.887†	261912.9	136.1 mg/L	1.93	26100 mg/kg	369.4	1.42%
Ca 317.933†	271815.9	126.1 mg/L	1.74	24170 mg/kg	334.2	1.38%
Cd 214.440†	15.5	0.01304 mg/L	0.000711	2.501 mg/kg	0.1363	5.45%
Cd 226.502†	3.5	0.00280 mg/L	0.001777	0.5365 mg/kg	0.34072	63.51%
Cd 228.802†	6.6	0.00118 mg/L	0.004712	0.2256 mg/kg	0.90353	400.58%
Ce 413.380†	60.2	0.03494 mg/L	0.004508	6.700 mg/kg	0.8644	12.90%
Ce 413.764†	65.3	0.04776 mg/L	0.002481	9.159 mg/kg	0.4757	5.19%
Ce 418.660†	65.2	0.03863 mg/L	0.006656	7.407 mg/kg	1.2764	17.23%
Co 228.616†	8.1	0.01101 mg/L	0.008591	2.112 mg/kg	1.6473	78.01%
Co 230.786†	14.4	0.01696 mg/L	0.002505	3.252 mg/kg	0.4804	14.77%
Co 238.892†	107.8	0.02945 mg/L	0.048208	5.647 mg/kg	9.2441	163.70%
Cr 205.560†	27.4	0.1819 mg/L	0.00262	34.89 mg/kg	0.502	1.44%
Cr 267.716†	154.7	0.1637 mg/L	0.00015	31.39 mg/kg	0.028	0.09%
Cr 283.563†	1093.7	0.1863 mg/L	0.00106	35.73 mg/kg	0.204	0.57%
Cu 224.700†	48.5	0.1358 mg/L	0.00783	26.04 mg/kg	1.502	5.77%
Cu 324.752†	1067.1	0.1500 mg/L	0.00064	28.77 mg/kg	0.123	0.43%
Cu 327.393†	473.0	0.1518 mg/L	0.00361	29.12 mg/kg	0.693	2.38%
Fe 238.204†	152285.1	85.55 mg/L	0.325	16410 mg/kg	62.3	0.38%
Fe 239.562†	89557.2	86.37 mg/L	0.286	16560 mg/kg	54.8	0.33%
Fe 259.939†	307281.8	86.22 mg/L	1.271	16530 mg/kg	243.7	1.47%
Fe 273.955†	45215.5	92.55 mg/L	0.145	17750 mg/kg	27.8	0.16%
K 766.490†	1592.8	1.290 mg/L	0.0340	247.3 mg/kg	6.52	2.64%
Li 610.362†	761.1	0.09405 mg/L	0.024539	18.03 mg/kg	4.705	26.09%
Li 670.784†	600.7	0.01850 mg/L	0.002810	3.547 mg/kg	0.5388	15.19%
Mg 279.077†	27887.5	71.54 mg/L	0.254	13720 mg/kg	48.7	0.36%
Mg 280.271†	3674650.0	66.39 mg/L	0.939	12730 mg/kg	180.1	1.41%
Mg 285.213†	297302.8	68.54 mg/L	0.936	13140 mg/kg	179.4	1.37%
Mn 257.610†	12627.0	0.9150 mg/L	0.00221	175.4 mg/kg	0.42	0.24%
Mn 259.372†	13216.9	0.9019 mg/L	0.00507	173.0 mg/kg	0.97	0.56%
Mn 260.568†	7502.4	0.9026 mg/L	0.00322	173.1 mg/kg	0.62	0.36%
Mo 202.031†	10.3	0.6304 mg/L	0.16986	120.9 mg/kg	32.57	26.95%
Mo 203.845†	2.0	0.04723 mg/L	0.026666	9.056 mg/kg	5.1134	56.46%
Mo 204.597†	0.2	0.00224 mg/L	0.007580	0.4291 mg/kg	1.45353	338.74%
Na 588.995†	6250.2	1.033 mg/L	0.0112	198.0 mg/kg	2.15	1.08%
Na 589.592†	2984.2	0.7967 mg/L	0.03341	152.8 mg/kg	6.41	4.19%
Ni 221.648†	6.7	0.08139 mg/L	0.029538	15.61 mg/kg	5.664	36.29%
Ni 231.604†	31.2	0.09596 mg/L	0.006168	18.40 mg/kg	1.183	6.43%
Ni 232.003†	18.7	0.09387 mg/L	0.005533	18.00 mg/kg	1.061	5.89%
Pb 217.000†	24.7	0.8382 mg/L	0.09520	160.7 mg/kg	18.25	11.36%
Pb 220.353†	42.9	0.8846 mg/L	0.03367	169.6 mg/kg	6.46	3.81%
Sb 206.836†	-0.1	-0.02369 mg/L	0.007962	-4.542 mg/kg	1.5267	33.61%
Sb 217.582†	-3.4	-0.1319 mg/L	0.07049	-25.30 mg/kg	13.517	53.43%
Sb 231.146†	-1.4	-0.06130 mg/L	0.047630	-11.75 mg/kg	9.133	77.70%
Se 196.026†	-4.1	-0.4377 mg/L	0.15725	-83.93 mg/kg	30.153	35.93%
Se 203.985†	-0.0	-0.06923 mg/L	0.161517	-13.27 mg/kg	30.972	233.32%
Sn 189.927†	1.8	0.1769 mg/L	0.20075	33.92 mg/kg	38.496	113.47%
Sn 235.485†	1612.2	5.412 mg/L	0.2104	1038 mg/kg	40.3	3.89%
Sn 283.998†	-6.7	0.02023 mg/L	0.012387	3.880 mg/kg	2.3752	61.22%
Sr 407.771†	19345.0	0.05560 mg/L	0.000203	10.66 mg/kg	0.039	0.36%
Sr 421.552†	8670.5	0.05515 mg/L	0.000468	10.58 mg/kg	0.090	0.85%
Sr 460.733†	136.7	0.05467 mg/L	0.018296	10.48 mg/kg	3.508	33.47%
Ti 334.940†	12670.6	0.5764 mg/L	0.00472	110.5 mg/kg	0.90	0.82%
Ti 336.121†	9290.7	0.5912 mg/L	0.00391	113.4 mg/kg	0.75	0.66%
Ti 337.279†	4261.0	0.5564 mg/L	0.00383	106.7 mg/kg	0.73	0.69%
Tl 190.801†	0.4	0.1037 mg/L	0.24044	19.88 mg/kg	46.106	231.96%
Tl 276.787†	332.2	1.409 mg/L	0.4494	270.1 mg/kg	86.17	31.90%
Tl 351.924†	7.7	0.04472 mg/L	0.035873	8.575 mg/kg	6.8788	80.22%
V 290.880†	30.8	0.02293 mg/L	0.001422	4.397 mg/kg	0.2727	6.20%
V 309.310†	1940.0	0.04817 mg/L	0.001525	9.236 mg/kg	0.2924	3.17%
V 310.230†	553.4	0.07043 mg/L	0.004901	13.50 mg/kg	0.940	6.96%
Zn 202.548†	637.5	1.804 mg/L	0.0185	346.0 mg/kg	3.54	1.02%

Zn 206.200†	660.5	1.771 mg/L	0.0111	339.6 mg/kg	2.14	0.63%
Zn 213.857†	934.5	1.877 mg/L	0.0117	359.9 mg/kg	2.24	0.62%

Sequence No.: 27 **Autosampler Location: 53**
Sample ID: B307012-DUP2 **Date Collected: 7/25/03 1:07:52 PM**
Analyst:
Sample Wt: 0.6554 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: B307012-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	171343.9						391.12	0.23%
Ag 328.068†	-3.3	0.00292	mg/L	0.001618	0.4453	mg/kg	0.24687	55.44%
Ag 338.289†	-5.4	0.00473	mg/L	0.002453	0.7210	mg/kg	0.37428	51.91%
Al 308.215†	7355.3	10.60	mg/L	0.071	1617	mg/kg	10.9	0.67%
Al 394.401†	8773.9	10.54	mg/L	0.032	1608	mg/kg	4.9	0.30%
Al 396.153†	21480.1	10.78	mg/L	0.014	1645	mg/kg	2.1	0.13%
As 188.979†	3.4	0.2491	mg/L	0.32981	38.00	mg/kg	50.322	132.41%
As 193.696†	3.5	0.6172	mg/L	0.27564	94.17	mg/kg	42.056	44.66%
As 197.197†	-7.9	-0.6707	mg/L	0.43140	-102.3	mg/kg	65.82	64.32%
B 208.889†	15.8	0.1958	mg/L	0.02140	29.88	mg/kg	3.265	10.93%
B 249.677†	74.8	0.1476	mg/L	0.00404	22.52	mg/kg	0.616	2.74%
B 249.772†	252.9	0.1626	mg/L	0.00648	24.81	mg/kg	0.989	3.99%
Ba 233.527†	309.3	0.1233	mg/L	0.00263	18.81	mg/kg	0.402	2.13%
Ba 455.403†	15745.6	0.1299	mg/L	0.00098	19.81	mg/kg	0.149	0.75%
Ba 493.408†	14662.9	0.1300	mg/L	0.00115	19.83	mg/kg	0.176	0.89%
Be 234.861†	148.9	0.00168	mg/L	0.001492	0.2560	mg/kg	0.22771	88.96%
Be 313.042†	-31.2	-0.00073	mg/L	0.000082	-0.1117	mg/kg	0.01249	11.18%
Be 313.107†	39.2	0.00104	mg/L	0.000168	0.1585	mg/kg	0.02569	16.21%
Ca 315.887†	328747.0	170.9	mg/L	0.90	26070	mg/kg	137.4	0.53%
Ca 317.933†	341015.4	158.2	mg/L	0.92	24130	mg/kg	140.6	0.58%
Cd 214.440†	14.1	0.01129	mg/L	0.003007	1.722	mg/kg	0.4588	26.64%
Cd 226.502†	9.2	0.01048	mg/L	0.007423	1.599	mg/kg	1.1327	70.82%
Cd 228.802†	6.4	0.00180	mg/L	0.004230	0.2739	mg/kg	0.64538	235.60%
Ce 413.380†	96.1	0.06060	mg/L	0.023230	9.247	mg/kg	3.5444	38.33%
Ce 413.764†	73.6	0.05277	mg/L	0.001281	8.051	mg/kg	0.1954	2.43%
Ce 418.660†	95.9	0.05687	mg/L	0.006295	8.678	mg/kg	0.9605	11.07%
Co 228.616†	12.3	0.01678	mg/L	0.000942	2.561	mg/kg	0.1437	5.61%
Co 230.786†	16.0	0.01813	mg/L	0.003347	2.766	mg/kg	0.5107	18.46%
Co 238.892†	135.6	0.03059	mg/L	0.019938	4.667	mg/kg	3.0422	65.18%
Cr 205.560†	36.3	0.2407	mg/L	0.00644	36.72	mg/kg	0.983	2.68%
Cr 267.716†	214.7	0.2271	mg/L	0.00150	34.66	mg/kg	0.229	0.66%
Cr 283.563†	1446.0	0.2471	mg/L	0.00204	37.70	mg/kg	0.311	0.82%
Cu 224.700†	72.0	0.2043	mg/L	0.01080	31.17	mg/kg	1.648	5.29%
Cu 324.752†	1575.2	0.2219	mg/L	0.00065	33.85	mg/kg	0.099	0.29%
Cu 327.393†	683.4	0.2200	mg/L	0.00383	33.57	mg/kg	0.584	1.74%
Fe 238.204†	196993.2	110.7	mg/L	0.20	16890	mg/kg	30.8	0.18%
Fe 239.562†	116252.3	112.1	mg/L	0.18	17110	mg/kg	27.7	0.16%
Fe 259.939†	396883.0	111.4	mg/L	0.66	16990	mg/kg	100.0	0.59%
Fe 273.955†	58862.1	120.5	mg/L	0.19	18380	mg/kg	29.4	0.16%
K 766.490†	1722.8	1.395	mg/L	0.0195	212.8	mg/kg	2.98	1.40%
Li 610.362†	739.2	0.07773	mg/L	0.032327	11.86	mg/kg	4.932	41.59%
Li 670.784†	397.6	0.01300	mg/L	0.003078	1.984	mg/kg	0.4696	23.67%
Mg 279.077†	35141.4	90.15	mg/L	0.067	13750	mg/kg	10.2	0.07%
Mg 280.271†	4535040.2	81.93	mg/L	0.423	12500	mg/kg	64.6	0.52%
Mg 285.213†	370488.8	85.42	mg/L	0.502	13030	mg/kg	76.5	0.59%
Mn 257.610†	16709.4	1.211	mg/L	0.0030	184.8	mg/kg	0.46	0.25%
Mn 259.372†	17491.7	1.196	mg/L	0.0081	182.5	mg/kg	1.24	0.68%
Mn 260.568†	9908.1	1.192	mg/L	0.0049	181.9	mg/kg	0.75	0.41%
Mo 202.031†	13.2	0.8100	mg/L	0.10664	123.6	mg/kg	16.27	13.16%
Mo 203.845†	2.9	0.06937	mg/L	0.074424	10.58	mg/kg	11.356	107.28%
Mo 204.597†	0.9	0.00991	mg/L	0.031811	1.513	mg/kg	4.8536	320.85%
Na 588.995†	5469.6	0.9038	mg/L	0.00705	137.9	mg/kg	1.08	0.78%
Na 589.592†	2584.1	0.6899	mg/L	0.01303	105.3	mg/kg	1.99	1.89%
Ni 221.648†	12.0	0.1413	mg/L	0.03459	21.56	mg/kg	5.278	24.48%
Ni 231.604†	41.9	0.1289	mg/L	0.00841	19.67	mg/kg	1.282	6.52%
Ni 232.003†	24.7	0.1236	mg/L	0.01798	18.85	mg/kg	2.744	14.55%

Pb 217.000†	34.6	1.193	mg/L	0.0958	182.0	mg/kg	14.61	8.03%
Pb 220.353†	62.9	1.306	mg/L	0.0528	199.2	mg/kg	8.05	4.04%
Sb 206.836†	1.2	0.01633	mg/L	0.096330	2.492	mg/kg	14.6978	589.78%
Sb 217.582†	-3.4	-0.1296	mg/L	0.09180	-19.77	mg/kg	14.007	70.85%
Sb 231.146†	2.5	0.09386	mg/L	0.066561	14.32	mg/kg	10.156	70.92%
Se 196.026†	1.6	0.1371	mg/L	0.09332	20.92	mg/kg	14.239	68.06%
Se 203.985†	-0.5	-0.1374	mg/L	0.17885	-20.97	mg/kg	27.288	130.13%
Sn 189.927†	2.8	0.2888	mg/L	0.32138	44.07	mg/kg	49.036	111.28%
Sn 235.485†	2089.2	6.821	mg/L	0.0942	1041	mg/kg	14.4	1.38%
Sn 283.998†	-9.7	0.02027	mg/L	0.019702	3.092	mg/kg	3.0062	97.21%
Sr 407.771†	25223.7	0.07265	mg/L	0.000253	11.09	mg/kg	0.039	0.35%
Sr 421.552†	11433.8	0.07293	mg/L	0.000125	11.13	mg/kg	0.019	0.17%
Sr 460.733†	157.7	0.06205	mg/L	0.010649	9.467	mg/kg	1.6249	17.16%
Ti 334.940†	16144.0	0.7343	mg/L	0.00065	112.0	mg/kg	0.10	0.09%
Ti 336.121†	11691.1	0.7439	mg/L	0.00168	113.5	mg/kg	0.26	0.23%
Ti 337.279†	5455.1	0.7123	mg/L	0.00658	108.7	mg/kg	1.00	0.92%
Tl 190.801†	-0.1	0.02490	mg/L	0.294825	3.799	mg/kg	44.9840	>999.9%
Tl 276.787†	412.2	1.714	mg/L	0.3406	261.5	mg/kg	51.96	19.87%
Tl 351.924†	1.9	0.00350	mg/L	0.085605	0.5344	mg/kg	13.06150	>999.9%
V 290.880†	56.0	0.03433	mg/L	0.000768	5.237	mg/kg	0.1172	2.24%
V 309.310†	2515.5	0.07125	mg/L	0.007724	10.87	mg/kg	1.179	10.84%
V 310.230†	684.4	0.08706	mg/L	0.002372	13.28	mg/kg	0.362	2.72%
Zn 202.548†	794.2	2.247	mg/L	0.0154	342.9	mg/kg	2.35	0.69%
Zn 206.200†	818.3	2.195	mg/L	0.0164	334.8	mg/kg	2.50	0.75%
Zn 213.857†	1161.6	2.333	mg/L	0.0074	355.9	mg/kg	1.13	0.32%

Sequence No.: 28 **Autosampler Location: 55**
Sample ID: B307012-MS2 **Date Collected: 7/25/03 1:12:05 PM**
Analyst:
Sample Wt: 0.5227 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: B307012-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	185158.8						2640.92	1.43%
Ag 328.068†	484.4	0.08493	mg/L	0.001007	16.25	mg/kg	0.193	1.19%
Ag 338.289†	252.6	0.08475	mg/L	0.001138	16.21	mg/kg	0.218	1.34%
Al 308.215†	6475.6	9.316	mg/L	0.0123	1782	mg/kg	2.4	0.13%
Al 394.401†	7742.6	9.293	mg/L	0.0530	1778	mg/kg	10.1	0.57%
Al 396.153†	18825.6	9.421	mg/L	0.0371	1802	mg/kg	7.1	0.39%
As 188.979†	5.1	0.4487	mg/L	0.15974	85.84	mg/kg	30.561	35.60%
As 193.696†	1.1	0.2208	mg/L	0.04734	42.23	mg/kg	9.057	21.45%
As 197.197†	-4.7	-0.3284	mg/L	0.20625	-62.82	mg/kg	39.459	62.81%
B 208.889†	70.4	0.9626	mg/L	0.04905	184.2	mg/kg	9.38	5.10%
B 249.677†	511.4	0.9924	mg/L	0.01907	189.9	mg/kg	3.65	1.92%
B 249.772†	1179.5	1.000	mg/L	0.0219	191.4	mg/kg	4.20	2.19%
Ba 233.527†	1270.4	0.5419	mg/L	0.01246	103.7	mg/kg	2.38	2.30%
Ba 455.403†	69774.6	0.5772	mg/L	0.00265	110.4	mg/kg	0.51	0.46%
Ba 493.408†	64117.8	0.5733	mg/L	0.00176	109.7	mg/kg	0.34	0.31%
Be 234.861†	743.3	0.04715	mg/L	0.000509	9.021	mg/kg	0.0973	1.08%
Be 313.042†	3139.0	0.04406	mg/L	0.000752	8.429	mg/kg	0.1439	1.71%
Be 313.107†	1714.3	0.04599	mg/L	0.000577	8.798	mg/kg	0.1104	1.26%
Ca 315.887†	250993.3	130.4	mg/L	0.36	24960	mg/kg	69.7	0.28%
Ca 317.933†	260122.4	120.6	mg/L	0.45	23080	mg/kg	86.3	0.37%
Cd 214.440†	111.3	0.1029	mg/L	0.00230	19.68	mg/kg	0.439	2.23%
Cd 226.502†	67.6	0.09995	mg/L	0.001495	19.12	mg/kg	0.286	1.50%
Cd 228.802†	72.4	0.07801	mg/L	0.001865	14.93	mg/kg	0.357	2.39%
Ce 413.380†	77.9	0.05079	mg/L	0.033253	9.716	mg/kg	6.3619	65.48%
Ce 413.764†	46.1	0.03120	mg/L	0.003665	5.970	mg/kg	0.7011	11.75%
Ce 418.660†	32.9	0.01874	mg/L	0.011476	3.585	mg/kg	2.1955	61.24%
Co 228.616†	319.0	0.4593	mg/L	0.00492	87.87	mg/kg	0.940	1.07%
Co 230.786†	304.3	0.4306	mg/L	0.01187	82.37	mg/kg	2.271	2.76%
Co 238.892†	356.2	0.4485	mg/L	0.01406	85.80	mg/kg	2.690	3.13%
Cr 205.560†	91.7	0.6099	mg/L	0.01481	116.7	mg/kg	2.83	2.43%
Cr 267.716†	567.2	0.5935	mg/L	0.01761	113.5	mg/kg	3.37	2.97%
Cr 283.563†	3146.3	0.6164	mg/L	0.01216	117.9	mg/kg	2.33	1.97%
Cu 224.700†	188.0	0.5682	mg/L	0.01237	108.7	mg/kg	2.37	2.18%

Cu 324.752†	4287.9	0.6076	mg/L	0.00442	116.3	mg/kg	0.85	0.73%
Cu 327.393†	1825.9	0.5956	mg/L	0.00973	113.9	mg/kg	1.86	1.63%
Fe 238.204†	142249.0	79.92	mg/L	0.341	15290	mg/kg	65.3	0.43%
Fe 239.562†	83763.1	80.78	mg/L	0.351	15460	mg/kg	67.2	0.44%
Fe 259.939†	285413.9	80.09	mg/L	0.372	15320	mg/kg	71.1	0.46%
Fe 273.955†	42298.5	86.58	mg/L	0.260	16560	mg/kg	49.7	0.30%
K 766.490†	1617.2	1.309	mg/L	0.0311	250.5	mg/kg	5.95	2.38%
Li 610.362†	1030.1	0.1360	mg/L	0.11380	26.01	mg/kg	21.772	83.70%
Li 670.784†	16679.9	0.4799	mg/L	0.00360	91.80	mg/kg	0.689	0.75%
Mg 279.077†	27091.9	69.50	mg/L	0.365	13300	mg/kg	69.8	0.52%
Mg 280.271†	3546687.2	64.08	mg/L	0.147	12260	mg/kg	28.1	0.23%
Mg 285.213†	287001.7	66.17	mg/L	0.286	12660	mg/kg	54.6	0.43%
Mn 257.610†	36663.1	2.661	mg/L	0.0123	509.2	mg/kg	2.36	0.46%
Mn 259.372†	35943.9	2.637	mg/L	0.0106	504.6	mg/kg	2.03	0.40%
Mn 260.568†	21604.2	2.610	mg/L	0.0111	499.3	mg/kg	2.12	0.42%
Mo 202.031†	22.3	1.606	mg/L	0.1661	307.3	mg/kg	31.77	10.34%
Mo 203.845†	35.4	0.8764	mg/L	0.00516	167.7	mg/kg	0.99	0.59%
Mo 204.597†	66.0	0.8862	mg/L	0.04095	169.5	mg/kg	7.83	4.62%
Na 588.995†	6731.6	1.112	mg/L	0.0460	212.8	mg/kg	8.79	4.13%
Na 589.592†	2713.1	0.7243	mg/L	0.00394	138.6	mg/kg	0.75	0.54%
Ni 221.648†	47.4	0.5250	mg/L	0.01544	100.4	mg/kg	2.95	2.94%
Ni 231.604†	171.9	0.5348	mg/L	0.01348	102.3	mg/kg	2.58	2.52%
Ni 232.003†	106.5	0.5299	mg/L	0.01497	101.4	mg/kg	2.86	2.83%
Pb 217.000†	53.0	1.975	mg/L	0.0781	377.9	mg/kg	14.95	3.96%
Pb 220.353†	98.0	2.077	mg/L	0.0610	397.4	mg/kg	11.67	2.94%
Sb 206.836†	0.1	-0.02564	mg/L	0.050643	-4.905	mg/kg	9.6888	197.54%
Sb 217.582†	-3.2	-0.1248	mg/L	0.06672	-23.88	mg/kg	12.764	53.44%
Sb 231.146†	2.0	0.02242	mg/L	0.052267	4.289	mg/kg	9.9994	233.11%
Se 196.026†	-0.9	-0.1138	mg/L	0.09608	-21.77	mg/kg	18.382	84.44%
Se 203.985†	-0.2	-0.1502	mg/L	0.13624	-28.74	mg/kg	26.064	90.70%
Sn 189.927†	10.7	1.188	mg/L	0.1107	227.3	mg/kg	21.18	9.32%
Sn 235.485†	1542.0	5.885	mg/L	0.6103	1126	mg/kg	116.8	10.37%
Sn 283.998†	238.5	0.4540	mg/L	0.01829	86.86	mg/kg	3.499	4.03%
Sr 407.771†	323924.4	0.9798	mg/L	0.00548	187.4	mg/kg	1.05	0.56%
Sr 421.552†	146165.8	0.9822	mg/L	0.00559	187.9	mg/kg	1.07	0.57%
Sr 460.733†	2272.8	1.046	mg/L	0.0231	200.1	mg/kg	4.41	2.21%
Ti 334.940†	13587.1	0.6175	mg/L	0.00093	118.1	mg/kg	0.18	0.15%
Ti 336.121†	9875.4	0.6286	mg/L	0.00273	120.3	mg/kg	0.52	0.43%
Ti 337.279†	4650.0	0.6073	mg/L	0.00072	116.2	mg/kg	0.14	0.12%
Tl 190.801†	-0.9	-0.1278	mg/L	0.07666	-24.44	mg/kg	14.667	60.00%
Tl 276.787†	336.2	1.465	mg/L	0.2927	280.2	mg/kg	56.00	19.99%
Tl 351.924†	3.6	0.01761	mg/L	0.032862	3.370	mg/kg	6.2869	186.57%
V 290.880†	1349.6	0.4571	mg/L	0.00755	87.45	mg/kg	1.444	1.65%
V 309.310†	4932.4	0.5045	mg/L	0.00631	96.52	mg/kg	1.207	1.25%
V 310.230†	3846.4	0.4957	mg/L	0.00575	94.84	mg/kg	1.100	1.16%
Zn 202.548†	856.0	2.422	mg/L	0.0366	463.4	mg/kg	7.00	1.51%
Zn 206.200†	883.0	2.368	mg/L	0.0585	453.0	mg/kg	11.19	2.47%
Zn 213.857†	1247.8	2.510	mg/L	0.0481	480.2	mg/kg	9.20	1.92%

Sequence No.: 29 **Autosampler Location: 57**
Sample ID: B307012-MS6 **Date Collected: 7/25/03 1:16:18 PM**
Analyst:
Sample Wt: 0.533 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: B307012-MS6

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	171415.7						1048.98	0.61%
Ag 328.068†	5.2	0.00304	mg/L	0.001414	0.5708	mg/kg	0.26533	46.49%
Ag 338.289†	-4.5	-0.00357	mg/L	0.000530	-0.6705	mg/kg	0.09940	14.83%
Al 308.215†	6669.4	9.595	mg/L	0.1092	1800	mg/kg	20.5	1.14%
Al 394.401†	7934.5	9.527	mg/L	0.0598	1787	mg/kg	11.2	0.63%
Al 396.153†	19392.3	9.733	mg/L	0.0507	1826	mg/kg	9.5	0.52%
As 188.979†	6.0	0.5173	mg/L	0.26560	97.06	mg/kg	49.831	51.34%
As 193.696†	1.0	0.1964	mg/L	0.21233	36.84	mg/kg	39.838	108.14%
As 197.197†	-6.2	-0.4988	mg/L	0.43916	-93.58	mg/kg	82.394	88.05%
B 208.889†	72.7	0.9845	mg/L	0.02192	184.7	mg/kg	4.11	2.23%

B 249.677†	543.0	1.054 mg/L	0.0278	197.7 mg/kg	5.21	2.63%
B 249.772†	1253.3	1.063 mg/L	0.0109	199.5 mg/kg	2.05	1.03%
Ba 233.527†	11215.4	4.837 mg/L	0.0237	907.4 mg/kg	4.44	0.49%
Ba 455.403†	604921.2	5.008 mg/L	0.0193	939.5 mg/kg	3.62	0.39%
Ba 493.408†	556642.1	4.985 mg/L	0.0212	935.3 mg/kg	3.98	0.43%
Be 234.861†	848.7	0.05416 mg/L	0.001288	10.16 mg/kg	0.242	2.38%
Be 313.042†	3626.3	0.05091 mg/L	0.000476	9.551 mg/kg	0.0892	0.93%
Be 313.107†	1966.3	0.05279 mg/L	0.000447	9.904 mg/kg	0.0839	0.85%
Ca 315.887†	279471.1	145.2 mg/L	0.39	27250 mg/kg	73.1	0.27%
Ca 317.933†	289799.8	134.4 mg/L	0.67	25210 mg/kg	126.0	0.50%
Cd 214.440†	1049.3	0.9799 mg/L	0.00675	183.8 mg/kg	1.27	0.69%
Cd 226.502†	640.1	0.9658 mg/L	0.01065	181.2 mg/kg	2.00	1.10%
Cd 228.802†	733.8	0.8014 mg/L	0.00228	150.4 mg/kg	0.43	0.28%
Ce 413.380†	41.2	0.01641 mg/L	0.009692	3.079 mg/kg	1.8183	59.06%
Ce 413.764†	73.0	0.05159 mg/L	0.012439	9.680 mg/kg	2.3338	24.11%
Ce 418.660†	91.2	0.05221 mg/L	0.005600	9.796 mg/kg	1.0506	10.73%
Co 228.616†	342.7	0.4911 mg/L	0.00222	92.14 mg/kg	0.416	0.45%
Co 230.786†	326.1	0.4582 mg/L	0.00802	85.96 mg/kg	1.504	1.75%
Co 238.892†	371.4	0.4595 mg/L	0.03066	86.21 mg/kg	5.753	6.67%
Cr 205.560†	734.6	4.894 mg/L	0.0393	918.3 mg/kg	7.36	0.80%
Cr 267.716†	4721.3	4.935 mg/L	0.0465	925.9 mg/kg	8.72	0.94%
Cr 283.563†	24324.7	5.025 mg/L	0.0444	942.7 mg/kg	8.33	0.88%
Cu 224.700†	1496.8	4.659 mg/L	0.0276	874.2 mg/kg	5.18	0.59%
Cu 324.752†	34013.1	4.850 mg/L	0.0130	910.0 mg/kg	2.45	0.27%
Cu 327.393†	14675.0	4.828 mg/L	0.0300	905.8 mg/kg	5.62	0.62%
Fe 238.204†	153678.3	86.36 mg/L	0.505	16200 mg/kg	94.8	0.59%
Fe 239.562†	90417.5	87.22 mg/L	0.286	16360 mg/kg	53.7	0.33%
Fe 259.939†	307374.5	86.26 mg/L	0.345	16180 mg/kg	64.7	0.40%
Fe 273.955†	45644.5	93.44 mg/L	0.716	17530 mg/kg	134.3	0.77%
K 766.490†	1641.7	1.329 mg/L	0.0158	249.4 mg/kg	2.97	1.19%
Li 610.362†	3423.1	0.5343 mg/L	0.05793	100.2 mg/kg	10.87	10.84%
Li 670.784†	18061.5	0.5206 mg/L	0.00366	97.67 mg/kg	0.687	0.70%
Mg 279.077†	30111.5	77.24 mg/L	0.219	14490 mg/kg	41.1	0.28%
Mg 280.271†	3920390.1	70.83 mg/L	0.349	13290 mg/kg	65.5	0.49%
Mg 285.213†	317224.0	73.14 mg/L	0.367	13720 mg/kg	68.9	0.50%
Mn 257.610†	146819.0	10.67 mg/L	0.058	2001 mg/kg	10.9	0.54%
Mn 259.372†	140325.5	10.59 mg/L	0.055	1988 mg/kg	10.3	0.52%
Mn 260.568†	87029.7	10.53 mg/L	0.063	1976 mg/kg	11.7	0.59%
Mo 202.031†	11.1	0.6843 mg/L	0.11923	128.4 mg/kg	22.37	17.42%
Mo 203.845†	1.5	0.03838 mg/L	0.038860	7.201 mg/kg	7.2907	101.25%
Mo 204.597†	0.9	0.00745 mg/L	0.038168	1.397 mg/kg	7.1609	512.48%
Na 588.995†	5537.4	0.9150 mg/L	0.02158	171.7 mg/kg	4.05	2.36%
Na 589.592†	2681.7	0.7159 mg/L	0.02043	134.3 mg/kg	3.83	2.85%
Ni 221.648†	178.9	1.961 mg/L	0.0448	367.8 mg/kg	8.40	2.28%
Ni 231.604†	635.8	1.981 mg/L	0.0266	371.6 mg/kg	5.00	1.34%
Ni 232.003†	428.5	2.017 mg/L	0.0292	378.5 mg/kg	5.49	1.45%
Pb 217.000†	146.8	5.724 mg/L	0.2120	1074 mg/kg	39.8	3.70%
Pb 220.353†	267.1	5.732 mg/L	0.0723	1075 mg/kg	13.6	1.26%
Sb 206.836†	1.6	-0.05265 mg/L	0.020770	-9.878 mg/kg	3.8967	39.45%
Sb 217.582†	-2.5	-0.09426 mg/L	0.055008	-17.68 mg/kg	10.320	58.36%
Sb 231.146†	1.8	-0.00222 mg/L	0.061901	-0.4163 mg/kg	11.61371	>999.9%
Se 196.026†	-0.3	-0.08386 mg/L	0.323163	-15.73 mg/kg	60.631	385.37%
Se 203.985†	8.6	0.1458 mg/L	0.29676	27.35 mg/kg	55.678	203.56%
Sn 189.927†	3.0	0.3139 mg/L	0.10438	58.89 mg/kg	19.583	33.25%
Sn 235.485†	1636.9	5.699 mg/L	0.5476	1069 mg/kg	102.7	9.61%
Sn 283.998†	801.7	0.03589 mg/L	0.024174	6.734 mg/kg	4.5354	67.35%
Sr 407.771†	347051.2	1.050 mg/L	0.0041	196.9 mg/kg	0.77	0.39%
Sr 421.552†	157117.6	1.056 mg/L	0.0051	198.0 mg/kg	0.96	0.49%
Sr 460.733†	2359.7	1.089 mg/L	0.0247	204.3 mg/kg	4.63	2.27%
Ti 334.940†	14247.5	0.6464 mg/L	0.00656	121.3 mg/kg	1.23	1.02%
Ti 336.121†	10309.1	0.6558 mg/L	0.00571	123.0 mg/kg	1.07	0.87%
Ti 337.279†	4833.7	0.6312 mg/L	0.00217	118.4 mg/kg	0.41	0.34%
Tl 190.801†	0.0	0.01277 mg/L	0.307539	2.397 mg/kg	57.6997	>999.9%
Tl 276.787†	387.0	1.593 mg/L	0.1765	298.9 mg/kg	33.11	11.08%
Tl 351.924†	-1.3	-0.01660 mg/L	0.055154	-3.115 mg/kg	10.3478	332.20%
V 290.880†	1449.2	0.4924 mg/L	0.00353	92.39 mg/kg	0.663	0.72%
V 309.310†	5314.9	0.5361 mg/L	0.00406	100.6 mg/kg	0.76	0.76%
V 310.230†	4266.9	0.5493 mg/L	0.00710	103.1 mg/kg	1.33	1.29%
Zn 202.548†	3735.9	10.57 mg/L	0.099	1983 mg/kg	18.6	0.94%
Zn 206.200†	3886.7	10.41 mg/L	0.083	1953 mg/kg	15.6	0.80%

Zn 213.857†	5423.0	10.95	mg/L	0.158	2054	mg/kg	29.6	1.44%

Sequence No.: 30
Sample ID: AsTi
Analyst:
Sample Wt: 0 g
Dilution:

Autosampler Location: 61
Date Collected: 7/25/03 1:20:58 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: AsTi

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	173116.8						188.16	0.11%
Ag 328.068†	-511.8	0.05039	mg/L	0.000824	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	98.6	0.00384	mg/L	0.008357	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	100.5	0.05360	mg/L	0.008055	0.000	mg/kg	0.0000	0.00%
Al 394.401†	27.1	0.02558	mg/L	0.003796	0.000	mg/kg	0.0000	0.00%
Al 396.153†	71.3	0.03103	mg/L	0.004954	0.000	mg/kg	0.0000	0.00%
As 188.979†	430.2	45.99	mg/L	0.358	0.000	mg/kg	0.0000	0.00%
As 193.696†	295.3	46.92	mg/L	0.367	0.000	mg/kg	0.0000	0.00%
As 197.197†	352.0	48.15	mg/L	0.262	0.000	mg/kg	0.0000	0.00%
B 208.889†	3.7	0.03662	mg/L	0.059618	0.00000	mg/kg	0.000000	0.00%
B 249.677†	12.9	0.02427	mg/L	0.008671	0.000	mg/kg	0.0000	0.00%
B 249.772†	33.5	0.03385	mg/L	0.000305	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	4.9	-0.00203	mg/L	0.000524	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	203.5	-0.00337	mg/L	0.000260	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	231.3	-0.00303	mg/L	0.000493	0.000	mg/kg	0.0000	0.00%
Be 234.861†	2.6	0.00008	mg/L	0.000128	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-85.6	-0.00144	mg/L	0.000135	0.000	mg/kg	0.0000	0.00%
Be 313.107†	29.9	-0.00006	mg/L	0.000142	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	133.0	0.07260	mg/L	0.015494	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	405.6	0.1822	mg/L	0.01217	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	0.9	0.00257	mg/L	0.001966	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	4.9	0.00154	mg/L	0.005411	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	661.6	0.1612	mg/L	0.00866	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-0.2	-0.00563	mg/L	0.011217	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	11.3	-0.00546	mg/L	0.006611	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	-11.7	-0.02573	mg/L	0.006262	0.000	mg/kg	0.0000	0.00%
Co 228.616†	48.3	0.00654	mg/L	0.004979	0.000	mg/kg	0.0000	0.00%
Co 230.786†	-1.6	-0.00381	mg/L	0.005655	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	-0.9	-0.00437	mg/L	0.002539	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	-1.7	-0.00037	mg/L	0.014745	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	1.2	-0.00253	mg/L	0.004889	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	7.3	-0.00266	mg/L	0.001946	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	2.9	-0.01080	mg/L	0.003463	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	56.6	0.00016	mg/L	0.001561	0.00000	mg/kg	0.000000	0.00%
Cu 327.393†	69.3	0.00559	mg/L	0.003864	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	61.9	0.08970	mg/L	0.005693	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	45.0	0.09661	mg/L	0.009803	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	135.2	0.09644	mg/L	0.006441	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	21.3	0.1019	mg/L	0.01633	0.000	mg/kg	0.0000	0.00%
K 766.490†	67.7	0.05482	mg/L	0.021923	0.000	mg/kg	0.0000	0.00%
Li 610.362†	892.1	0.1052	mg/L	0.02962	0.000	mg/kg	0.0000	0.00%
Li 670.784†	-64.4	0.00099	mg/L	0.001241	0.00000	mg/kg	0.000000	0.00%
Mg 279.077†	6.4	0.02265	mg/L	0.013009	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	2108.4	0.03853	mg/L	0.004709	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	165.2	0.04085	mg/L	0.003565	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	40.7	-0.00001	mg/L	0.000702	0.00000	mg/kg	0.000000	0.00%
Mn 259.372†	40.9	-0.00063	mg/L	0.000705	0.00000	mg/kg	0.000000	0.00%
Mn 260.568†	20.4	-0.00024	mg/L	0.000737	0.00000	mg/kg	0.000000	0.00%
Mo 202.031†	0.7	0.05513	mg/L	0.038243	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	1.7	0.06918	mg/L	0.040292	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-1.2	-0.02252	mg/L	0.020072	0.000	mg/kg	0.0000	0.00%
Na 588.995†	805.7	0.1331	mg/L	0.04084	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-40.0	-0.01069	mg/L	0.025695	0.00000	mg/kg	0.000000	0.00%
Ni 221.648†	-1.3	-0.00421	mg/L	0.014723	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	0.8	-0.00562	mg/L	0.005514	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	0.7	0.00575	mg/L	0.000453	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	0.1	0.06648	mg/L	0.049402	0.000	mg/kg	0.0000	0.00%

Pb 220.353†	0.1	0.05109 mg/L	0.028184	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	0.5	-0.07269 mg/L	0.035082	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	-1.4	-0.1098 mg/L	0.06531	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	-0.1	-0.04152 mg/L	0.116181	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	0.9	-0.1290 mg/L	0.04826	0.000 mg/kg	0.0000	0.00%
Se 203.985†	-1.6	-0.2054 mg/L	0.07204	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	0.8	0.08232 mg/L	0.137280	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	-2.4	0.00986 mg/L	0.041857	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	-69.4	0.07812 mg/L	0.011178	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	125.4	-0.00606 mg/L	0.000094	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	95.7	-0.00573 mg/L	0.000072	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-53.3	-0.00954 mg/L	0.012762	0.00000 mg/kg	0.000000	0.00%
Ti 334.940†	1068055.4	48.27 mg/L	0.269	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	771237.0	49.35 mg/L	0.312	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	361800.1	47.31 mg/L	0.271	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	2.7	0.3833 mg/L	0.21534	0.000 mg/kg	0.0000	0.00%
Tl 276.787†	0.8	0.04087 mg/L	0.050364	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	21.7	-0.02384 mg/L	0.020898	0.000 mg/kg	0.0000	0.00%
V 290.880†	-8.8	-0.00060 mg/L	0.001906	0.00000 mg/kg	0.000000	0.00%
V 309.310†	37.8	0.00726 mg/L	0.000422	0.000 mg/kg	0.0000	0.00%
V 310.230†	172.0	0.02107 mg/L	0.001592	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	21.8	0.07839 mg/L	0.009990	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	21.1	0.07824 mg/L	0.004008	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	26.4	0.07098 mg/L	0.002824	0.000 mg/kg	0.0000	0.00%

==========

Sequence No.: 31 **Autosampler Location: 63**
Sample ID: AlFe **Date Collected: 7/25/03 1:25:07 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Original**

Mean Data: AlFe

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	172321.0						1462.81	0.85%
Ag 328.068†	0.3	0.00061	mg/L	0.001162	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-32.9	0.00385	mg/L	0.003373	0.000	mg/kg	0.0000	0.00%
Al 308.215†	137719.5	198.9	mg/L	0.50	0.000	mg/kg	0.0000	0.00%
Al 394.401†	166627.8	199.1	mg/L	0.66	0.000	mg/kg	0.0000	0.00%
Al 396.153†	401019.7	201.7	mg/L	0.57	0.000	mg/kg	0.0000	0.00%
As 188.979†	4.5	0.4926	mg/L	0.12676	0.000	mg/kg	0.0000	0.00%
As 193.696†	4.2	0.6291	mg/L	0.18219	0.000	mg/kg	0.0000	0.00%
As 197.197†	2.0	0.2297	mg/L	0.22783	0.000	mg/kg	0.0000	0.00%
B 208.889†	3.1	0.05521	mg/L	0.010319	0.000	mg/kg	0.0000	0.00%
B 249.677†	5.9	0.01691	mg/L	0.010166	0.000	mg/kg	0.0000	0.00%
B 249.772†	180.3	0.04815	mg/L	0.003518	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	43.3	0.00027	mg/L	0.001098	0.00000	mg/kg	0.000000	0.00%
Ba 455.403†	128.5	0.00076	mg/L	0.000295	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	235.0	0.00019	mg/L	0.000501	0.00000	mg/kg	0.000000	0.00%
Be 234.861†	230.4	0.00080	mg/L	0.000884	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-107.2	-0.00160	mg/L	0.000069	0.000	mg/kg	0.0000	0.00%
Be 313.107†	2.7	0.00004	mg/L	0.000044	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	17.2	0.01526	mg/L	0.001585	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	285.9	0.1393	mg/L	0.00297	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-4.8	0.00179	mg/L	0.002920	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	13.0	0.00370	mg/L	0.004766	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	1.3	-0.00346	mg/L	0.006406	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	29.7	-0.01476	mg/L	0.020727	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	12.5	-0.00180	mg/L	0.002992	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	27.1	0.00788	mg/L	0.043268	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	-2.1	-0.00577	mg/L	0.002353	0.000	mg/kg	0.0000	0.00%
Co 230.786†	4.9	0.00079	mg/L	0.007082	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	229.5	0.03994	mg/L	0.025033	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	2.0	0.01461	mg/L	0.010911	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-9.5	-0.00366	mg/L	0.001949	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	672.7	0.04111	mg/L	0.000846	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	5.7	-0.00549	mg/L	0.007800	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	62.5	0.00367	mg/L	0.001721	0.000	mg/kg	0.0000	0.00%

Cu 327.393†	29.5	0.00626	mg/L	0.003230	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	344276.2	193.4	mg/L	0.75	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	203791.2	196.5	mg/L	0.66	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	691862.4	194.1	mg/L	0.76	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	103617.8	212.1	mg/L	0.83	0.000	mg/kg	0.0000	0.00%
K 766.490†	-14.8	-0.01198	mg/L	0.032733	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1018.8	0.1739	mg/L	0.06333	0.000	mg/kg	0.0000	0.00%
Li 670.784†	22.8	0.00179	mg/L	0.002166	0.00000	mg/kg	0.000000	0.00%
Mg 279.077†	13.1	-0.03598	mg/L	0.012512	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	589.2	-0.00962	mg/L	0.001334	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	39.2	-0.00993	mg/L	0.001150	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	47.8	0.00003	mg/L	0.001656	0.00000	mg/kg	0.000000	0.00%
Mn 259.372†	3033.1	-0.00837	mg/L	0.001837	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	65.6	-0.00252	mg/L	0.000836	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	0.8	0.05275	mg/L	0.079888	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	5.7	0.04400	mg/L	0.026982	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-0.8	-0.03684	mg/L	0.008023	0.000	mg/kg	0.0000	0.00%
Na 588.995†	649.9	0.1074	mg/L	0.03656	0.000	mg/kg	0.0000	0.00%
Na 589.592†	-116.0	-0.03098	mg/L	0.009474	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	1.5	0.01827	mg/L	0.022895	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	1.9	0.00275	mg/L	0.007730	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	2.3	0.00837	mg/L	0.009904	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	13.4	-0.07681	mg/L	0.031962	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	-9.2	0.09864	mg/L	0.056820	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-0.3	-0.02710	mg/L	0.028010	0.00000	mg/kg	0.000000	0.00%
Sb 217.582†	1.8	-0.08247	mg/L	0.057378	0.000	mg/kg	0.0000	0.00%
Sb 231.146†	3.5	0.1376	mg/L	0.10942	0.000	mg/kg	0.0000	0.00%
Se 196.026†	1.1	0.02506	mg/L	0.138178	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	2.2	-0.09358	mg/L	0.399845	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	1.0	0.1126	mg/L	0.07851	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	3703.2	12.60	mg/L	0.386	0.000	mg/kg	0.0000	0.00%
Sn 283.998†	-69.1	-0.03497	mg/L	0.020427	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	-16.0	-0.00008	mg/L	0.000142	0.00000	mg/kg	0.000000	0.00%
Sr 421.552†	72.5	0.00001	mg/L	0.000048	0.00000	mg/kg	0.000000	0.00%
Sr 460.733†	13.9	0.00442	mg/L	0.054305	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	284.0	0.01148	mg/L	0.003088	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	198.7	0.01132	mg/L	0.002925	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	92.1	0.01014	mg/L	0.003654	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	2.5	0.3625	mg/L	0.18890	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	-19.8	-0.2618	mg/L	0.13540	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	8.9	0.04571	mg/L	0.062406	0.00000	mg/kg	0.000000	0.00%
V 290.880†	38.4	-0.00197	mg/L	0.001017	0.000	mg/kg	0.0000	0.00%
V 309.310†	848.1	-0.00617	mg/L	0.003986	0.000	mg/kg	0.0000	0.00%
V 310.230†	170.7	0.01981	mg/L	0.005000	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	14.5	0.04121	mg/L	0.005271	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	11.0	0.04052	mg/L	0.004211	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	21.9	0.04047	mg/L	0.002393	0.000	mg/kg	0.0000	0.00%

Sequence No.: 32 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 7/25/03 1:29:17 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	171593.0						2054.60	1.20%
Ag 328.068†	4.0	0.00069	mg/L	0.000352				50.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	16.1	0.00499	mg/L	0.001477				29.60%
Al 308.215†	60.8	0.08780	mg/L	0.006795				7.74%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	43.2	0.05225	mg/L	0.024311				46.53%
Al 396.153†	97.3	0.04979	mg/L	0.012948				26.00%
As 188.979†	2.2	0.2346	mg/L	0.10973				46.78%
As 193.696†	2.6	0.4056	mg/L	0.06996				17.25%
As 197.197†	0.4	0.05796	mg/L	0.203860				351.75%

B 208.889†	5.7	0.07945 mg/L	0.016028	20.17%
B 249.677†	3.3	0.00632 mg/L	0.004529	71.71%
QC value within limits for B 249.677 Recovery = Not calculated				
B 249.772†	13.1	0.01154 mg/L	0.003815	33.06%
Ba 233.527†	0.8	0.00029 mg/L	0.000851	289.23%
Ba 455.403†	63.5	0.00050 mg/L	0.000527	104.82%
QC value within limits for Ba 455.403 Recovery = Not calculated				
Ba 493.408†	116.0	0.00102 mg/L	0.000197	19.40%
Be 234.861†	5.5	0.00039 mg/L	0.000346	89.13%
Be 313.042†	-106.9	-0.00152 mg/L	0.000040	2.61%
QC value within limits for Be 313.042 Recovery = Not calculated				
Be 313.107†	2.5	0.00007 mg/L	0.000084	122.79%
Ca 315.887†	51.0	0.02655 mg/L	0.002690	10.13%
QC value within limits for Ca 315.887 Recovery = Not calculated				
Ca 317.933†	312.5	0.1449 mg/L	0.00494	3.41%
Cd 214.440†	0.6	0.00054 mg/L	0.002386	438.76%
Cd 226.502†	-0.2	-0.00028 mg/L	0.004394	>999.9%
Cd 228.802†	-1.5	-0.00653 mg/L	0.003397	52.03%
QC value within limits for Cd 228.802 Recovery = Not calculated				
Ce 413.380†	-12.1	-0.01033 mg/L	0.005117	49.54%
Ce 413.764†	7.3	0.00606 mg/L	0.003479	57.42%
Ce 418.660†	-0.9	-0.00057 mg/L	0.005059	889.55%
Co 228.616†	-2.3	-0.00339 mg/L	0.002930	86.52%
QC value within limits for Co 228.616 Recovery = Not calculated				
Co 230.786†	-1.1	-0.00157 mg/L	0.003388	215.86%
Co 238.892†	-2.1	-0.00362 mg/L	0.004494	124.20%
Cr 205.560†	0.4	0.00297 mg/L	0.001605	53.98%
Cr 267.716†	-0.9	-0.00094 mg/L	0.002377	253.46%
Cr 283.563†	-2.7	-0.00059 mg/L	0.001346	228.07%
QC value within limits for Cr 283.563 Recovery = Not calculated				
Cu 224.700†	-5.8	-0.01821 mg/L	0.006050	33.22%
Cu 324.752†	-25.8	-0.00360 mg/L	0.001379	38.26%
QC value within limits for Cu 324.752 Recovery = Not calculated				
Cu 327.393†	-0.3	-0.00001 mg/L	0.000813	>999.9%
Fe 238.204†	183.6	0.1033 mg/L	0.01245	12.04%
Fe 239.562†	114.8	0.1108 mg/L	0.01415	12.76%
Fe 259.939†	376.0	0.1057 mg/L	0.01607	15.21%
Fe 273.955†	54.9	0.1125 mg/L	0.01941	17.24%
QC value greater than the upper limit for Fe 273.955 Recovery = Not calculated				
K 766.490†	-20.5	-0.01658 mg/L	0.067420	406.66%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	1049.7	0.1930 mg/L	0.08910	46.17%
Li 670.784†	-55.5	-0.00158 mg/L	0.002165	137.38%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	-4.5	-0.01155 mg/L	0.014288	123.67%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	142.0	0.00255 mg/L	0.000461	18.12%
Mg 285.213†	20.0	0.00459 mg/L	0.000227	4.94%
Mn 257.610†	11.8	0.00086 mg/L	0.000186	21.55%
QC value within limits for Mn 257.610 Recovery = Not calculated				
Mn 259.372†	9.8	0.00077 mg/L	0.000615	79.44%
Mn 260.568†	-1.7	-0.00022 mg/L	0.000643	298.52%
Mo 202.031†	0.7	0.05398 mg/L	0.101684	188.36%
Mo 203.845†	1.5	0.03625 mg/L	0.010963	30.24%
Mo 204.597†	-2.2	-0.02928 mg/L	0.014502	49.52%
QC value within limits for Mo 204.597 Recovery = Not calculated				
Na 588.995†	682.6	0.1128 mg/L	0.06223	55.17%
Na 589.592†	74.1	0.01979 mg/L	0.022813	115.27%
QC value within limits for Na 589.592 Recovery = Not calculated				
Ni 221.648†	-0.2	-0.00264 mg/L	0.018097	685.71%
Ni 231.604†	-0.7	-0.00220 mg/L	0.004367	198.60%
QC value within limits for Ni 231.604 Recovery = Not calculated				
Ni 232.003†	-0.1	-0.00026 mg/L	0.013761	>999.9%
Pb 217.000†	0.3	0.01205 mg/L	0.082638	685.99%
Pb 220.353†	0.4	0.00833 mg/L	0.013734	164.85%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	-1.5	-0.05164 mg/L	0.032323	62.60%
Sb 217.582†	-0.8	-0.03531 mg/L	0.015642	44.30%
Sb 231.146†	2.2	0.08897 mg/L	0.042924	48.24%
Se 196.026†	1.2	0.1186 mg/L	0.20263	170.78%

Se 203.985†	-1.2	-0.1194	mg/L	0.18042	151.05%
Sn 189.927†	1.1	0.1257	mg/L	0.08527	67.82%
Sn 235.485†	-3.5	-0.1203	mg/L	0.05470	45.47%
Sn 283.998†	5.9	0.01406	mg/L	0.010781	76.67%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-34.6	-0.00011	mg/L	0.000103	94.74%
Sr 421.552†	30.2	0.00020	mg/L	0.000120	60.41%
Sr 460.733†	-72.3	-0.03346	mg/L	0.018391	54.96%
Ti 334.940†	69.3	0.00313	mg/L	0.002286	73.09%
Ti 336.121†	46.9	0.00300	mg/L	0.003282	109.48%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	11.8	0.00154	mg/L	0.002929	190.26%
Tl 190.801†	2.2	0.3912	mg/L	0.28495	72.83%
Tl 276.787†	0.3	0.00337	mg/L	0.018114	536.99%
Tl 351.924†	8.9	0.05940	mg/L	0.024619	41.45%
V 290.880†	-1.3	-0.00043	mg/L	0.001161	268.40%
V 309.310†	60.2	0.00904	mg/L	0.001073	11.87%
V 310.230†	177.2	0.02290	mg/L	0.001332	5.82%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	10.6	0.03020	mg/L	0.000646	2.14%
Zn 206.200†	11.2	0.02996	mg/L	0.003942	13.16%
Zn 213.857†	13.1	0.02653	mg/L	0.001860	7.01%
QC value within limits for Zn 213.857 Recovery = Not calculated					
QC Failed. Continue with analysis.					

==========

Sequence No.: 33 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 7/25/03 1:33:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	171051.7						1447.77	0.85%
Ag 328.068†	1445.9	0.2455	mg/L	0.00495				2.02%
QC value within limits for Ag 328.068 Recovery = 98.18%								
Ag 338.289†	795.8	0.2500	mg/L	0.00661				2.65%
Al 308.215†	758.2	1.073	mg/L	0.0150				1.40%
QC value within limits for Al 308.215 Recovery = 107.26%								
Al 394.401†	923.2	1.034	mg/L	0.0103				1.00%
Al 396.153†	2158.0	1.093	mg/L	0.0083				0.76%
As 188.979†	22.7	2.420	mg/L	0.1171				4.84%
As 193.696†	13.2	2.087	mg/L	0.1421				6.81%
As 197.197†	17.3	2.356	mg/L	0.3835				16.27%
B 208.889†	70.8	0.9866	mg/L	0.03012				3.05%
B 249.677†	506.2	0.9792	mg/L	0.01490				1.52%
QC value within limits for B 249.677 Recovery = 97.92%								
B 249.772†	1110.1	0.9828	mg/L	0.01375				1.40%
Ba 233.527†	2368.0	1.022	mg/L	0.0104				1.01%
Ba 455.403†	126226.0	1.045	mg/L	0.0078				0.74%
QC value within limits for Ba 455.403 Recovery = 104.45%								
Ba 493.408†	115752.6	1.036	mg/L	0.0094				0.90%
Be 234.861†	13938.1	1.005	mg/L	0.0082				0.81%
Be 313.042†	71872.2	1.018	mg/L	0.0052				0.51%
QC value within limits for Be 313.042 Recovery = 101.84%								
Be 313.107†	37981.7	1.019	mg/L	0.0048				0.47%
Ca 315.887†	2137.9	1.107	mg/L	0.0158				1.43%
Ca 317.933†	2471.8	1.144	mg/L	0.0086				0.75%
QC value greater than the upper limit for Ca 317.933 Recovery = 114.39%								
Cd 214.440†	1140.3	1.066	mg/L	0.0141				1.33%
Cd 226.502†	702.4	1.063	mg/L	0.0125				1.17%
Cd 228.802†	809.6	0.8599	mg/L	0.01248				1.45%
QC value less than the lower limit for Cd 228.802 Recovery = 85.99%								
Ce 413.380†	1204.0	1.030	mg/L	0.0128				1.24%
Ce 413.764†	1205.2	1.010	mg/L	0.0134				1.33%
Ce 418.660†	1686.5	1.033	mg/L	0.0345				3.34%
Co 228.616†	720.3	1.038	mg/L	0.0098				0.94%

QC value within limits for Co 228.616 Recovery = 103.83%				
Co 230.786†	680.0	0.9704 mg/L	0.01280	1.32%
Co 238.892†	598.4	0.9837 mg/L	0.01505	1.53%
Cr 205.560†	151.2	1.007 mg/L	0.0288	2.86%
Cr 267.716†	952.8	0.9965 mg/L	0.01079	1.08%
Cr 283.563†	4836.3	1.006 mg/L	0.0112	1.11%
QC value within limits for Cr 283.563 Recovery = 100.58%				
Cu 224.700†	317.0	0.9894 mg/L	0.00227	0.23%
Cu 324.752†	7206.3	1.029 mg/L	0.0085	0.83%
QC value within limits for Cu 324.752 Recovery = 102.85%				
Cu 327.393†	3077.9	1.014 mg/L	0.0072	0.71%
Fe 238.204†	1951.2	1.104 mg/L	0.0094	0.85%
Fe 239.562†	1155.5	1.122 mg/L	0.0174	1.55%
Fe 259.939†	3929.1	1.110 mg/L	0.0034	0.31%
QC value greater than the upper limit for Fe 259.939 Recovery = 110.96%				
Fe 273.955†	581.2	1.191 mg/L	0.0090	0.75%
K 766.490†	6088.7	4.930 mg/L	0.0142	0.29%
QC value within limits for K 766.490 Recovery = 98.60%				
Li 610.362†	7005.8	1.262 mg/L	0.1030	8.17%
Li 670.784†	35964.1	1.032 mg/L	0.0097	0.94%
QC value less than the lower limit for Li 670.784 Recovery = 20.64%				
Mg 279.077†	403.5	1.034 mg/L	0.0186	1.80%
Mg 280.271†	56889.5	1.027 mg/L	0.0066	0.64%
QC value within limits for Mg 280.271 Recovery = 102.71%				
Mg 285.213†	4481.6	1.033 mg/L	0.0133	1.29%
Mn 257.610†	14091.4	1.024 mg/L	0.0089	0.87%
QC value within limits for Mn 257.610 Recovery = 102.39%				
Mn 259.372†	13277.3	1.011 mg/L	0.0067	0.66%
Mn 260.568†	8267.5	1.0000 mg/L	0.00435	0.44%
Mo 202.031†	0.3	0.02017 mg/L	0.055689	276.03%
Mo 203.845†	1.2	0.02958 mg/L	0.041475	140.20%
Mo 204.597†	-0.2	-0.00408 mg/L	0.013712	336.39%
Na 588.995†	7090.6	1.172 mg/L	0.0617	5.27%
Na 589.592†	3896.6	1.040 mg/L	0.0195	1.87%
Ni 221.648†	95.2	1.038 mg/L	0.0192	1.84%
Ni 231.604†	330.2	1.030 mg/L	0.0184	1.79%
QC value within limits for Ni 231.604 Recovery = 102.97%				
Ni 232.003†	202.8	1.019 mg/L	0.0126	1.24%
Pb 217.000†	49.6	1.978 mg/L	0.0141	0.71%
Pb 220.353†	91.1	1.973 mg/L	0.0581	2.95%
QC value within limits for Pb 220.353 Recovery = 98.65%				
Sb 206.836†	-0.0	-0.02011 mg/L	0.042333	210.53%
Sb 217.582†	-1.8	-0.08396 mg/L	0.011707	13.94%
Sb 231.146†	5.0	0.07840 mg/L	0.014282	18.22%
Se 196.026†	11.2	1.142 mg/L	0.2108	18.46%
Se 203.985†	9.8	0.8440 mg/L	0.16861	19.98%
Sn 189.927†	0.5	0.05773 mg/L	0.091903	159.21%
Sn 235.485†	18.3	0.02740 mg/L	0.067154	245.10%
Sn 283.998†	182.7	0.02630 mg/L	0.008755	33.29%
Sr 407.771†	333649.1	1.012 mg/L	0.0076	0.75%
Sr 421.552†	151077.4	1.018 mg/L	0.0076	0.75%
Sr 460.733†	2258.3	1.042 mg/L	0.0084	0.80%
Ti 334.940†	21.2	0.00052 mg/L	0.000147	28.11%
Ti 336.121†	11.6	0.00066 mg/L	0.000693	105.15%
Ti 337.279†	-6.4	-0.00073 mg/L	0.000465	63.70%
Tl 190.801†	29.2	5.168 mg/L	0.2190	4.24%
Tl 276.787†	523.3	4.775 mg/L	0.0992	2.08%
Tl 351.924†	795.1	5.299 mg/L	0.0399	0.75%
V 290.880†	2973.7	0.9796 mg/L	0.00970	0.99%
V 309.310†	6698.8	1.004 mg/L	0.0048	0.48%
V 310.230†	7687.3	0.9920 mg/L	0.01073	1.08%
QC value within limits for V 310.230 Recovery = 99.20%				
Zn 202.548†	366.9	1.036 mg/L	0.0270	2.60%
Zn 206.200†	374.2	1.004 mg/L	0.0123	1.23%
Zn 213.857†	512.9	1.034 mg/L	0.0086	0.84%
QC value within limits for Zn 213.857 Recovery = 103.39%				

QC Failed. Continue with analysis.

Sample ID: LCM2 Date Collected: 7/25/03 1:37:51 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	171092.5						1947.96	1.14%
Ag 328.068†	-11.2	0.00091	mg/L	0.001462				160.67%
Ag 338.289†	6.4	0.00260	mg/L	0.001547				59.38%
Al 308.215†	53.7	0.06638	mg/L	0.004811				7.25%
Al 394.401†	26.5	0.03228	mg/L	0.003649				11.30%
Al 396.153†	138.6	0.03677	mg/L	0.002995				8.14%
As 188.979†	1.4	0.1444	mg/L	0.10720				74.25%
As 193.696†	1.3	0.1996	mg/L	0.23009				115.26%
As 197.197†	-1.3	-0.1861	mg/L	0.22482				120.80%
B 208.889†	3.4	0.04747	mg/L	0.025145				52.97%
B 249.677†	4.8	0.00960	mg/L	0.004859				50.64%
B 249.772†	20.9	0.01874	mg/L	0.001955				10.43%
Ba 233.527†	-15.7	-0.00609	mg/L	0.001472				24.16%
Ba 455.403†	119.1	0.00089	mg/L	0.000083				9.29%
Ba 493.408†	135.7	0.00113	mg/L	0.000217				19.30%
Be 234.861†	8.0	0.00066	mg/L	0.000145				21.87%
Be 313.042†	-86.1	-0.00124	mg/L	0.000041				3.28%
Be 313.107†	11.9	0.00030	mg/L	0.000079				26.46%
Ca 315.887†	40.1	0.02108	mg/L	0.005069				24.04%
Ca 317.933†	300.7	0.1401	mg/L	0.00226				1.61%
Cd 214.440†	1.7	0.00174	mg/L	0.002006				115.24%
Cd 226.502†	0.4	0.00041	mg/L	0.004092				999.78%
Cd 228.802†	-2.2	-0.00495	mg/L	0.006272				126.73%
Ce 413.380†	-19.5	-0.01684	mg/L	0.006153				36.53%
Ce 413.764†	8.5	0.00671	mg/L	0.010613				158.11%
Ce 418.660†	-7.8	-0.00507	mg/L	0.017078				336.52%
Co 228.616†	-3.7	-0.00644	mg/L	0.000892				13.84%
Co 230.786†	-5.4	-0.00814	mg/L	0.004601				56.55%
Co 238.892†	1.3	0.00241	mg/L	0.002310				95.75%
Cr 205.560†	1.2	0.00764	mg/L	0.005337				69.85%
Cr 267.716†	-4.2	-0.00446	mg/L	0.002992				67.04%
Cr 283.563†	-0.3	-0.00024	mg/L	0.000875				371.72%
Cu 224.700†	-6.7	-0.02423	mg/L	0.002926				12.08%
Cu 324.752†	-61.5	-0.01101	mg/L	0.000808				7.34%
Cu 327.393†	-19.9	-0.00870	mg/L	0.002006				23.07%
Fe 238.204†	81.2	0.04770	mg/L	0.001499				3.14%
Fe 239.562†	50.8	0.05110	mg/L	0.004376				8.56%
Fe 259.939†	165.5	0.04866	mg/L	0.000999				2.05%
Fe 273.955†	22.8	0.04914	mg/L	0.016485				33.54%
K 766.490†	-9.8	-0.00793	mg/L	0.007286				91.89%
Li 610.362†	1312.6	0.2389	mg/L	0.08247				34.52%
Li 670.784†	-115.3	-0.00314	mg/L	0.003147				100.12%
Mg 279.077†	-3.8	-0.00914	mg/L	0.006764				73.96%
Mg 280.271†	154.0	0.00282	mg/L	0.000251				8.90%
Mg 285.213†	17.6	0.00413	mg/L	0.001103				26.69%
Mn 257.610†	7.9	0.00022	mg/L	0.000202				93.44%
Mn 259.372†	73.5	0.00051	mg/L	0.000335				65.04%
Mn 260.568†	-4.5	-0.00049	mg/L	0.000204				41.66%
Mo 202.031†	14.3	1.157	mg/L	0.0372				3.21%
Mo 203.845†	42.4	1.052	mg/L	0.0465				4.42%
Mo 204.597†	70.9	0.9540	mg/L	0.02534				2.66%
QC value within limits for Mo 204.597 Recovery = 95.40%								
Na 588.995†	602.4	0.09954	mg/L	0.029163				29.30%
Na 589.592†	24.9	0.00663	mg/L	0.041611				627.23%
Ni 221.648†	-2.8	-0.03013	mg/L	0.028147				93.43%
Ni 231.604†	0.2	0.00023	mg/L	0.010376				>999.9%
Ni 232.003†	-1.4	-0.01325	mg/L	0.014825				111.88%
Pb 217.000†	1.4	0.05919	mg/L	0.070291				118.75%
Pb 220.353†	-0.0	0.00220	mg/L	0.023435				>999.9%
Sb 206.836†	49.5	1.708	mg/L	0.0423				2.48%
QC value less than the lower limit for Sb 206.836 Recovery = 85.40%								

Sb 217.582†	46.0	2.049	mg/L	0.0552	2.69%
QC value within limits for Sb 217.582 Recovery = 102.45%					
Sb 231.146†	48.8	2.002	mg/L	0.0202	1.01%
QC value within limits for Sb 231.146 Recovery = 100.08%					
Se 196.026†	0.5	0.04392	mg/L	0.088080	200.55%
Se 203.985†	-0.0	-0.06563	mg/L	0.222647	339.25%
Sn 189.927†	43.3	4.891	mg/L	0.1530	3.13%
Sn 235.485†	220.9	5.144	mg/L	0.1666	3.24%
Sn 283.998†	897.9	2.311	mg/L	0.0244	1.06%
QC value less than the lower limit for Sn 283.998 Recovery = 46.21%					
Sr 407.771†	188.8	0.00045	mg/L	0.000132	29.36%
Sr 421.552†	74.6	0.00038	mg/L	0.000085	22.26%
Sr 460.733†	-25.8	-0.01121	mg/L	0.024450	218.10%
Ti 334.940†	22042.8	0.9963	mg/L	0.00253	0.25%
Ti 336.121†	15836.7	1.013	mg/L	0.0040	0.39%
QC value within limits for Ti 336.121 Recovery = 101.33%					
Ti 337.279†	7445.9	0.9736	mg/L	0.00680	0.70%
Tl 190.801†	2.2	0.3964	mg/L	0.10349	26.11%
Tl 276.787†	-2.9	-0.02467	mg/L	0.029071	117.83%
Tl 351.924†	5.8	0.03594	mg/L	0.060586	168.57%
V 290.880†	-6.4	-0.00217	mg/L	0.002475	113.88%
V 309.310†	62.4	0.00951	mg/L	0.001658	17.44%
V 310.230†	174.5	0.02260	mg/L	0.002922	12.93%
Zn 202.548†	5.0	0.01516	mg/L	0.003607	23.79%
Zn 206.200†	5.0	0.01424	mg/L	0.004404	30.92%
Zn 213.857†	4.5	0.00976	mg/L	0.002192	22.47%

QC Failed. Continue with analysis.

==========

Sequence No.: 35 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 7/25/03 1:41:38 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162704.7						7012.69	4.31%
Ag 328.068†	4.6	0.00187	mg/L	0.001558				83.10%
Ag 338.289†	-7.1	-0.00418	mg/L	0.003169				75.90%
Al 308.215†	69720.1	100.7	mg/L	0.09				0.09%
QC value within limits for Al 308.215 Recovery = 100.66%								
Al 394.401†	84597.9	101.1	mg/L	0.14				0.14%
Al 396.153†	208968.9	105.1	mg/L	2.63				2.51%
As 188.979†	3.3	0.2866	mg/L	0.06729				23.48%
As 193.696†	2.8	0.4556	mg/L	0.29177				64.05%
As 197.197†	-5.8	-0.5656	mg/L	0.19502				34.48%
B 208.889†	5.2	0.06652	mg/L	0.033637				50.57%
B 249.677†	6.0	0.01391	mg/L	0.002602				18.71%
B 249.772†	93.6	0.02785	mg/L	0.000381				1.37%
Ba 233.527†	26.3	0.00197	mg/L	0.000466				23.63%
Ba 455.403†	103.2	0.00047	mg/L	0.000223				47.70%
Ba 493.408†	170.4	0.00035	mg/L	0.000233				66.58%
Be 234.861†	107.8	-0.00029	mg/L	0.000615				208.69%
Be 313.042†	-92.9	-0.00150	mg/L	0.000026				1.71%
Be 313.107†	9.4	0.00024	mg/L	0.000133				55.83%
Ca 315.887†	206613.7	107.4	mg/L	0.48				0.45%
QC value within limits for Ca 315.887 Recovery = 107.38%								
Ca 317.933†	213370.0	98.96	mg/L	0.322				0.33%
Cd 214.440†	-0.6	0.00187	mg/L	0.003354				179.35%
Cd 226.502†	4.5	0.00204	mg/L	0.002163				106.10%
Cd 228.802†	-8.5	-0.01315	mg/L	0.007389				56.20%
Ce 413.380†	4.2	-0.01582	mg/L	0.011635				73.55%
Ce 413.764†	-2.0	-0.00993	mg/L	0.014484				145.85%
Ce 418.660†	6.6	0.00164	mg/L	0.003847				234.03%
Co 228.616†	-7.0	-0.01031	mg/L	0.006434				62.43%
Co 230.786†	6.0	0.00485	mg/L	0.006995				144.16%
Co 238.892†	114.7	0.01749	mg/L	0.036240				207.21%

Cr 205.560†	-0.0	-0.00102	mg/L	0.015497	>999.9%
Cr 267.716†	-5.3	-0.00212	mg/L	0.005566	262.29%
Cr 283.563†	318.8	0.01777	mg/L	0.001250	7.03%
Cu 224.700†	-0.1	-0.01479	mg/L	0.000540	3.65%
Cu 324.752†	-100.9	-0.01695	mg/L	0.000721	4.26%
Cu 327.393†	-32.1	-0.01424	mg/L	0.000457	3.21%
Fe 238.204†	176476.4	99.14	mg/L	0.381	0.38%
Fe 239.562†	103712.5	100.0	mg/L	0.32	0.32%
Fe 259.939†	362921.4	101.8	mg/L	2.49	2.44%
Fe 273.955†	52400.2	107.3	mg/L	0.50	0.47%
QC value within limits for Fe 273.955 Recovery = 107.25%					
K 766.490†	123799.0	100.2	mg/L	0.15	0.15%
Li 610.362†	2704.9	0.4617	mg/L	0.37549	81.32%
Li 670.784†	176.7	0.00642	mg/L	0.000543	8.47%
Mg 279.077†	23889.4	61.27	mg/L	0.367	0.60%
QC value within limits for Mg 279.077 Recovery = 102.12%					
Mg 280.271†	3243811.9	58.60	mg/L	1.503	2.56%
Mg 285.213†	261026.5	60.18	mg/L	1.510	2.51%
Mn 257.610†	23.6	-0.00111	mg/L	0.000998	89.69%
Mn 259.372†	1557.1	-0.00379	mg/L	0.001541	40.69%
Mn 260.568†	27.6	-0.00295	mg/L	0.000315	10.69%
Mo 202.031†	7.6	0.4442	mg/L	0.08958	20.16%
Mo 203.845†	3.9	0.06047	mg/L	0.067026	110.84%
Mo 204.597†	0.3	-0.00724	mg/L	0.007959	109.98%
Na 588.995†	646119.0	106.8	mg/L	2.32	2.18%
Na 589.592†	388776.4	103.8	mg/L	2.39	2.30%
QC value within limits for Na 589.592 Recovery = 103.79%					
Ni 221.648†	-0.5	0.00287	mg/L	0.010317	359.05%
Ni 231.604†	-2.1	-0.00819	mg/L	0.004352	53.13%
Ni 232.003†	-0.7	0.00044	mg/L	0.003160	718.67%
Pb 217.000†	12.5	0.1597	mg/L	0.15732	98.51%
Pb 220.353†	0.4	0.1042	mg/L	0.02420	23.22%
Sb 206.836†	0.7	-0.00093	mg/L	0.036181	>999.9%
Sb 217.582†	-2.3	-0.1378	mg/L	0.03004	21.80%
Sb 231.146†	-1.4	-0.05618	mg/L	0.049475	88.07%
Se 196.026†	1.9	0.1466	mg/L	0.06739	45.96%
Se 203.985†	0.2	-0.1389	mg/L	0.13862	99.78%
Sn 189.927†	2.6	0.2759	mg/L	0.09593	34.77%
Sn 235.485†	1888.0	6.727	mg/L	0.4698	6.98%
Sn 283.998†	-54.1	-0.02494	mg/L	0.020136	80.72%
Sr 407.771†	613.1	-0.00059	mg/L	0.000247	41.61%
Sr 421.552†	311.8	-0.00060	mg/L	0.000043	7.26%
Sr 460.733†	-103.0	-0.05517	mg/L	0.016504	29.91%
Ti 334.940†	-25.2	0.00114	mg/L	0.000395	34.59%
Ti 336.121†	66.4	0.00098	mg/L	0.000603	61.53%
Ti 337.279†	3.8	-0.00090	mg/L	0.001390	154.40%
Tl 190.801†	1.1	0.1934	mg/L	0.45938	237.48%
Tl 276.787†	323.1	1.566	mg/L	0.2429	15.51%
Tl 351.924†	8.3	0.04763	mg/L	0.055042	115.56%
V 290.880†	-98.1	-0.02424	mg/L	0.003537	14.59%
V 309.310†	1765.7	-0.01004	mg/L	0.004015	39.97%
V 310.230†	245.5	0.02972	mg/L	0.009575	32.21%
Zn 202.548†	7.3	0.01712	mg/L	0.001379	8.06%
Zn 206.200†	3.9	0.01603	mg/L	0.006541	40.81%
Zn 213.857†	13.5	0.01897	mg/L	0.006030	31.78%

All analytes passed QC.

Sample ID	Date	Time	Int (Corr)
Calib Blank 1	08/19/2003	10:02:03 AM	165017
Cal 1	08/19/2003	10:06:04 AM	173852
Cal 2	08/19/2003	10:09:51 AM	171113
Cal 3	08/19/2003	10:13:32 AM	163376
Cal 4A+B	08/19/2003	10:17:13 AM	168587
Cal 4C	08/19/2003	10:20:56 AM	168606
Cal 5	08/19/2003	10:24:39 AM	167123
Hi Cal	08/19/2003	10:28:26 AM	159107
BLANK	08/19/2003	10:44:54 AM	169582
LCM1	08/19/2003	10:48:39 AM	169075
LCM2	08/19/2003	10:52:26 AM	166756
Hi AQC	08/19/2003	10:56:12 AM	162739
Blank 2	08/19/2003	11:00:05 AM	167512
Blank 2	08/19/2003	11:03:53 AM	170925
Blank 2	08/19/2003	11:07:41 AM	170217
RLC	08/19/2003	11:15:24 AM	168226
b307012-BLK1	08/19/2003	11:19:07 AM	165833
0305007-10	08/19/2003	11:22:52 AM	164980
0305007-11	08/19/2003	11:26:44 AM	162894
0305007-12	08/19/2003	11:30:41 AM	165194
0305007-13	08/19/2003	11:34:36 AM	166487
0305007-14	08/19/2003	11:38:26 AM	162173
0305007-15	08/19/2003	11:42:16 AM	161551
BLANK	08/19/2003	11:46:07 AM	165845
LCM1	08/19/2003	11:49:51 AM	163609
LCM2	08/19/2003	11:53:41 AM	165006
Hi AQC	08/19/2003	11:57:27 AM	162767
0305007-16	08/19/2003	12:57:26 PM	160145
b307012-dup3	08/19/2003	01:01:19 PM	163517
b307012-ms3	08/19/2003	01:05:13 PM	172396
b307012-ms7	08/19/2003	01:09:01 PM	162894
0305007-17	08/19/2003	01:12:52 PM	164965
0305007-18	08/19/2003	01:16:45 PM	162641
0305007-19	08/19/2003	01:20:39 PM	160298
0305007-20	08/19/2003	01:24:27 PM	163074
0305007-21	08/19/2003	01:28:16 PM	163700
0305007-22	08/19/2003	01:32:06 PM	165276
0305007-23	08/19/2003	01:35:58 PM	162740
0305007-24	08/19/2003	01:39:52 PM	161517
AsTi	08/19/2003	01:43:41 PM	164143
AlFe	08/19/2003	01:47:30 PM	163888
BLANK	08/19/2003	01:51:21 PM	165046
LCM1	08/19/2003	01:55:05 PM	161826
LCM2	08/19/2003	01:58:54 PM	160722
Hi AQC	08/19/2003	02:02:40 PM	158810
0305007-25	08/19/2003	02:07:18 PM	158029
b307012-dup4	08/19/2003	02:11:08 PM	159088
b307012-ms4	08/19/2003	02:14:59 PM	168943
b307012-ms8	08/19/2003	02:18:51 PM	156710
0305007-26	08/19/2003	02:22:47 PM	163219
0305007-27	08/19/2003	02:26:45 PM	163766
0305007-28	08/19/2003	02:30:35 PM	160524
0305007-29	08/19/2003	02:34:25 PM	161805

0305007-30	08/19/2003	02:38:19 PM	158666
0305007-31	08/19/2003	02:42:14 PM	158244
0305007-32	08/19/2003	02:46:10 PM	159709
0305007-33	08/19/2003	02:49:57 PM	157883
BLANK	08/19/2003	02:53:47 PM	161351
LCM1	08/19/2003	02:57:31 PM	160409
LCM2	08/19/2003	03:01:20 PM	159651
Hi AQC	08/19/2003	03:05:06 PM	158104
Blank 2	08/19/2003	03:08:59 PM	160288
0305007-34	08/19/2003	03:12:46 PM	154590
0305007-35	08/19/2003	03:16:42 PM	156489
0305007-36	08/19/2003	03:20:35 PM	156730
0305007-37	08/19/2003	03:24:23 PM	156662
0305007-38	08/19/2003	03:28:11 PM	156901
0305007-39	08/19/2003	03:32:00 PM	156158
0305007-40	08/19/2003	03:35:51 PM	155887
wash	08/19/2003	03:39:43 PM	158022
b307012-blk2	08/19/2003	03:43:30 PM	156737
b307012-bs1	08/19/2003	03:47:12 PM	169545
b307012-bs2	08/19/2003	03:50:56 PM	156055
b307012-srm1	08/19/2003	03:54:44 PM	150204
BLANK	08/19/2003	03:58:34 PM	161371
LCM1	08/19/2003	04:02:19 PM	159702
LCM2	08/19/2003	04:06:08 PM	156426
Hi AQC	08/19/2003	04:09:54 PM	155051

Instrument Blank First

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.000	0.003		mg/L
10:46 AM	Al 308.215	0.01	0.06		mg/L
	B 249.677	0.00	0.02		mg/L
	Ba 455.403	-0.000	0.001		mg/L
	Be 313.042	-0.0001	0.0004		mg/L
	Ca 315.887	0.02	0.09		mg/L
	Cd 228.802	0.005	0.006		mg/L
	Co 228.616	0.007	0.01		mg/L
	Cr 283.563	0.001	0.006		mg/L
	Cu 324.752	-0.001	0.005		mg/L
	Fe 273.955	0.02	0.04		mg/L
	K 766.490	0.1	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	0.02	0.04		mg/L
	Mn 257.610	-0.000	0.001		mg/L
	Mo 204.597	0.04	0.03	out	mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	-0.001	0.02		mg/L
	Pb 220.353	-0.06	0.07		mg/L
	Sn 283.998	-0.01	0.02		mg/L
	Ti 336.121	0.000	0.002		mg/L
	V 310.289	0.00	0.02		mg/L
	Zn 213.857	0.00	0.09		mg/L

KB
08 26 03

Instrument QC First

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.247	0.250	99%		mg/L	
10:50 AM	Al 308.215	0.995	1.000	99%		mg/L	
	B 249.677	0.963	1.000	96%		mg/L	
	Ba 455.403	1.016	1.000	102%		mg/L	
	Be 313.042	0.982	1.000	98%		mg/L	
	Ca 315.887	1.083	1.000	108%		mg/L	
	Cd 228.802	0.934	1.000	93%		mg/L	
	Co 228.616	0.954	1.000	95%		mg/L	
	Cr 283.563	0.988	1.000	99%		mg/L	
	Cu 324.752	1.008	1.000	101%		mg/L	
	Fe 273.955	1.146	1.000	115%	out	mg/L	
	K 766.490	4.781	5.000	96%		mg/L	
	Li 670.784	1.006	1.000	101%		mg/L	
	Mg 279.077	1.038	1.000	104%		mg/L	
	Mn 257.610	1.006	1.000	101%		mg/L	
	Na 589.592	1.076	1.000	108%		mg/L	
	Ni 231.604	0.964	1.000	96%		mg/L	
	Pb 220.353	1.965	2.000	98%		mg/L	
	V 310.230	0.964	1.000	96%		mg/L	
	Zn 213.857	0.997	1.000	100%		mg/L	
LCM2	Mo 204.597	0.991	1.000	99%		mg/L	
	Sn 283.998	2.319	5.000	46%		mg/L	out
	Ti 336.121	0.995	1.000	100%		mg/L	
Hi AQC	Al 308.215	97.434	100.000	97%		mg/L	
	Ca 315.887	104.217	100.000	104%		mg/L	
	Fe 273.955	104.393	100.000	104%		mg/L	
	K 766.490	95.834	100.000	96%		mg/L	
	Mg 279.077	59.908	60.000	100%		mg/L	
	Na 589.592	97.036	100.000	97%		mg/L	

KS
08 26 03

Instrument Blank Second

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.000	0.003		mg/L
11:48 AM	Al 308.215	-0.01	0.06		mg/L
	B 249.677	-0.00	0.02		mg/L
	Ba 455.403	0.000	0.001		mg/L
	Be 313.042	-0.0001	0.0004		mg/L
	Ca 315.887	0.04	0.09		mg/L
	Cd 228.802	-0.001	0.006		mg/L
	Co 228.616	0.001	0.01		mg/L
	Cr 283.563	-0.001	0.006		mg/L
	Cu 324.752	-0.001	0.005		mg/L
	Fe 273.955	0.05	0.04	out	mg/L
	K 766.490	-0.0	0.7		mg/L
	Li 670.784	-0.01	0.01		mg/L
	Mg 279.077	0.03	0.04		mg/L
	Mn 257.610	0.001	0.001		mg/L
	Mo 204.597	0.00	0.03		mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	0.000	0.02		mg/L
	Pb 220.353	-0.05	0.07		mg/L
	Sn 283.998	0.00	0.02		mg/L
	Ti 336.121	-0.001	0.002		mg/L
	V 310.289	0.00	0.02		mg/L
	Zn 213.857	0.01	0.09		mg/L

KS
08/26/03

Instrument QC Second

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.253	0.250	101%		mg/L	
11:51 AM	Al 308.215	0.999	1.000	100%		mg/L	
	B 249.677	0.977	1.000	98%		mg/L	
	Ba 455.403	1.032	1.000	103%		mg/L	
	Be 313.042	0.993	1.000	99%		mg/L	
	Ca 315.887	1.098	1.000	110%		mg/L	
	Cd 228.802	0.952	1.000	95%		mg/L	
	Co 228.616	0.974	1.000	97%		mg/L	
	Cr 283.563	0.998	1.000	100%		mg/L	
	Cu 324.752	1.030	1.000	103%		mg/L	
	Fe 273.955	1.177	1.000	118%	out	mg/L	
	K 766.490	4.819	5.000	96%		mg/L	
	Li 670.784	1.032	1.000	103%		mg/L	
	Mg 279.077	1.033	1.000	103%		mg/L	
	Mn 257.610	1.019	1.000	102%		mg/L	
	Na 589.592	1.085	1.000	108%		mg/L	
	Ni 231.604	0.984	1.000	98%		mg/L	
	Pb 220.353	1.898	2.000	95%		mg/L	
	V 310.230	0.976	1.000	98%		mg/L	
	Zn 213.857	1.034	1.000	103%		mg/L	
LCM2	Mo 204.597	0.955	1.000	96%		mg/L	
	Sn 283.998	2.258	5.000	45%		mg/L	out
	Ti 336.121	0.988	1.000	99%		mg/L	
Hi AQC	Al 308.215	96.435	100.000	96%		mg/L	
	Ca 315.887	103.458	100.000	103%		mg/L	
	Fe 273.955	103.014	100.000	103%		mg/L	
	K 766.490	96.263	100.000	96%		mg/L	
	Mg 279.077	59.069	60.000	98%		mg/L	
	Na 589.592	96.489	100.000	96%		mg/L	

KS
082603

Instrument Blank Third

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.000	0.003		mg/L
01:53 PM	Al 308.215	0.04	0.06		mg/L
	B 249.677	0.00	0.02		mg/L
	Ba 455.403	-0.000	0.001		mg/L
	Be 313.042	-0.0000	0.0004		mg/L
	Ca 315.887	0.01	0.09		mg/L
	Cd 228.802	0.002	0.006		mg/L
	Co 228.616	0.004	0.01		mg/L
	Cr 283.563	-0.000	0.006		mg/L
	Cu 324.752	-0.001	0.005		mg/L
	Fe 273.955	0.08	0.04	out	mg/L
	K 766.490	-0.1	0.7		mg/L
	Li 670.784	-0.01	0.01		mg/L
	Mg 279.077	-0.01	0.04		mg/L
	Mn 257.610	0.001	0.001		mg/L
	Mo 204.597	-0.00	0.03		mg/L
	Na 589.592	-0.0	0.5		mg/L
	Ni 231.604	0.005	0.02		mg/L
	Pb 220.353	-0.01	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	0.004	0.002		mg/L
	V 310.289	-0.01	0.02		mg/L
	Zn 213.857	0.01	0.09		mg/L

KB 08/26/03

Instrument QC Third

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.249	0.250	100%		mg/L	
01:57 PM	Al 308.215	0.985	1.000	99%		mg/L	
	B 249.677	0.949	1.000	95%		mg/L	
	Ba 455.403	1.031	1.000	103%		mg/L	
	Be 313.042	0.978	1.000	98%		mg/L	
	Ca 315.887	1.081	1.000	108%		mg/L	
	Cd 228.802	0.940	1.000	94%		mg/L	
	Co 228.616	0.944	1.000	94%		mg/L	
	Cr 283.563	0.979	1.000	98%		mg/L	
	Cu 324.752	1.009	1.000	101%		mg/L	
	Fe 273.955	1.191	1.000	119%	out	mg/L	
	K 766.490	4.821	5.000	96%		mg/L	
	Li 670.784	1.035	1.000	103%		mg/L	
	Mg 279.077	1.023	1.000	102%		mg/L	
	Mn 257.610	1.005	1.000	100%		mg/L	
	Na 589.592	1.059	1.000	106%		mg/L	
	Ni 231.604	0.969	1.000	97%		mg/L	
	Pb 220.353	1.886	2.000	94%		mg/L	
	V 310.230	0.967	1.000	97%		mg/L	
	Zn 213.857	1.008	1.000	101%		mg/L	
LCM2	Mo 204.597	0.989	1.000	99%		mg/L	
	Sn 283.998	2.257	5.000	45%		mg/L	out
	Ti 336.121	0.980	1.000	98%		mg/L	
Hi AQC	Al 308.215	95.574	100.000	96%		mg/L	
	Ca 315.887	102.704	100.000	103%		mg/L	
	Fe 273.955	102.456	100.000	102%		mg/L	
	K 766.490	97.507	100.000	98%		mg/L	
	Mg 279.077	58.250	60.000	97%		mg/L	
	Na 589.592	98.475	100.000	98%		mg/L	

KJ
082603

Instrument Blank Fourth

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.001	0.003		mg/L
02:55 PM	Al 308.215	-0.01	0.06		mg/L
	B 249.677	0.00	0.02		mg/L
	Ba 455.403	0.000	0.001		mg/L
	Be 313.042	0.0001	0.0004		mg/L
	Ca 315.887	0.04	0.09		mg/L
	Cd 228.802	0.005	0.006		mg/L
	Co 228.616	0.007	0.01		mg/L
	Cr 283.563	0.001	0.006		mg/L
	Cu 324.752	0.002	0.005		mg/L
	Fe 273.955	0.12	0.04	out	mg/L
	K 766.490	-0.1	0.7		mg/L
	Li 670.784	-0.00	0.01		mg/L
	Mg 279.077	0.03	0.04		mg/L
	Mn 257.610	0.000	0.001		mg/L
	Mo 204.597	0.05	0.03	out	mg/L
	Na 589.592	0.0	0.5		mg/L
	Ni 231.604	0.001	0.02		mg/L
	Pb 220.353	-0.06	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	-0.000	0.002		mg/L
	V 310.289	-0.01	0.02		mg/L
	Zn 213.857	0.02	0.09		mg/L

KP
082603

Instrument QC Fourth

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.247	0.250	99%		mg/L	
02:59 PM	Al 308.215	0.964	1.000	96%		mg/L	
	B 249.677	0.945	1.000	95%		mg/L	
	Ba 455.403	1.049	1.000	105%		mg/L	
	Be 313.042	0.952	1.000	95%		mg/L	
	Ca 315.887	1.080	1.000	108%		mg/L	
	Cd 228.802	0.935	1.000	93%		mg/L	
	Co 228.616	0.922	1.000	92%		mg/L	
	Cr 283.563	0.972	1.000	97%		mg/L	
	Cu 324.752	0.995	1.000	99%		mg/L	
	Fe 273.955	1.215	1.000	122%	out	mg/L	
	K 766.490	4.766	5.000	95%		mg/L	
	Li 670.784	1.038	1.000	104%		mg/L	
	Mg 279.077	0.982	1.000	98%		mg/L	
	Mn 257.610	0.990	1.000	99%		mg/L	
	Na 589.592	1.079	1.000	108%		mg/L	
	Ni 231.604	0.963	1.000	96%		mg/L	
	Pb 220.353	1.879	2.000	94%		mg/L	
	V 310.230	0.951	1.000	95%		mg/L	
	Zn 213.857	1.003	1.000	100%		mg/L	
LCM2	Mo 204.597	0.965	1.000	96%		mg/L	
	Sn 283.998	2.256	5.000	45%		mg/L	out
	Ti 336.121	0.980	1.000	98%		mg/L	
Hi AQC	Al 308.215	95.152	100.000	95%		mg/L	
	Ca 315.887	101.830	100.000	102%		mg/L	
	Fe 273.955	101.340	100.000	101%		mg/L	
	K 766.490	98.717	100.000	99%		mg/L	
	Mg 279.077	57.737	60.000	96%		mg/L	
	Na 589.592	97.768	100.000	98%		mg/L	

KS
082603

Instrument Blank Fifth

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.000	0.003		mg/L
04:00 PM	Al 308.215	-0.02	0.06		mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.001	0.001		mg/L
	Be 313.042	0.0002	0.0004		mg/L
	Ca 315.887	0.15	0.09	out	mg/L
	Cd 228.802	0.005	0.006		mg/L
	Co 228.616	0.006	0.01		mg/L
	Cr 283.563	0.000	0.006		mg/L
	Cu 324.752	0.110	0.005	out	mg/L
	Fe 273.955	0.05	0.04	out	mg/L
	K 766.490	-0.1	0.7		mg/L
	Li 670.784	-0.01	0.01		mg/L
	Mg 279.077	0.08	0.04	out	mg/L
	Mn 257.610	0.001	0.001		mg/L
	Mo 204.597	-0.00	0.03		mg/L
	Na 589.592	-0.0	0.5		mg/L
	Ni 231.604	0.000	0.02		mg/L
	Pb 220.353	0.01	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	-0.001	0.002		mg/L
	V 310.289	-0.01	0.02		mg/L
	Zn 213.857	0.01	0.09		mg/L

KJ
082603

Instrument QC Fifth

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.246	0.250	98%		mg/L	
04:04 PM	Al 308.215	0.946	1.000	95%		mg/L	
	B 249.677	0.915	1.000	91%		mg/L	
	Ba 455.403	1.062	1.000	106%		mg/L	
	Be 313.042	0.932	1.000	93%		mg/L	
	Ca 315.887	1.074	1.000	107%		mg/L	
	Cd 228.802	0.930	1.000	93%		mg/L	
	Co 228.616	0.908	1.000	91%		mg/L	
	Cr 283.563	0.957	1.000	96%		mg/L	
	Cu 324.752	1.049	1.000	105%		mg/L	
	Fe 273.955	1.157	1.000	116%	out	mg/L	
	K 766.490	4.770	5.000	95%		mg/L	
	Li 670.784	1.013	1.000	101%		mg/L	
	Mg 279.077	0.987	1.000	99%		mg/L	
	Mn 257.610	0.974	1.000	97%		mg/L	
	Na 589.592	1.052	1.000	105%		mg/L	
	Ni 231.604	0.942	1.000	94%		mg/L	
	Pb 220.353	1.876	2.000	94%		mg/L	
	V 310.230	0.925	1.000	92%		mg/L	
	Zn 213.857	0.985	1.000	99%		mg/L	
LCM2	Mo 204.597	0.970	1.000	97%		mg/L	
	Sn 283.998	2.271	5.000	45%		mg/L	out
	Ti 336.121	0.981	1.000	98%		mg/L	
Hi AQC	Al 308.215	94.402	100.000	94%		mg/L	
	Ca 315.887	101.486	100.000	101%		mg/L	
	Fe 273.955	100.942	100.000	101%		mg/L	
	K 766.490	99.125	100.000	99%		mg/L	
	Mg 279.077	57.336	60.000	96%		mg/L	
	Na 589.592	100.406	100.000	100%		mg/L	

KB
082603

Laboratory Reagent Blank

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	0.000	0.003		mg/L
03:45 PM	Al 308.215	0.045	0.025	out	mg/L
	B 249.677	-0.00	0.02		mg/L
	Ba 455.403	0.0016	0.0004		mg/L
	Be 313.042	0.0002	0.0002		mg/L
	Ca 315.887	0.09	0.02	out	mg/L
	Cd 228.802	0.000	0.006		mg/L
	Co 228.616	0.002	0.004		mg/L
	Cr 283.563	0.002	0.006		mg/L
	Cu 324.752	-0.001	0.003		mg/L
	Fe 273.955	0.05	0.02	out	mg/L
	K 766.490	-0.0	0.7		mg/L
	Li 670.784	-0.01	0.01		mg/L
	Mg 279.077	0.04	0.03	out	mg/L
	Mn 257.610	0.0007	0.0007	~~out~~ IC	mg/L
	Mo 204.597	0.04	0.03	out	mg/L
	Na 589.592	0.1	0.5		mg/L
	Ni 231.604	-0.002	0.003		mg/L
	Pb 220.353	-0.013	0.032		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	0.001	0.001		mg/L
	V 310.289	-0.01	0.02		mg/L
	Zn 213.857	0.03	0.01	out	mg/L

KJ
08/26/03

SPIKE BLANK

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

Element	Units	Spike	Spike Added	% Recovery	Spike II	Spike Added	% Recovery
Ag 328.068	mg/L	0.087	0.1	87			
B 249.677	mg/L	0.871	1.0	87	0.94	1	94
Ba 455.403	mg/L	0.477	0.5	95	5.00	5	100
Be 313.042	mg/L	0.043	0.05	85	0.05	0.05	98
Cd 228.802	mg/L	0.087	0.1	87	0.92	1	92
Co 228.616	mg/L	0.419	0.5	83	0.45	0.5	90
Cr 283.563	mg/L	0.441	0.5	88	4.84	5	97
Cu 324.752	mg/L	0.414	0.5	83	4.72	5	94
Li 670.784	mg/L	0.450	0.5	92	0.50	0.5	101
Mn 257.610	mg/L	1.802	2.0	90	9.58	10	96
Mo 204.597	mg/L	0.891	1.0	85			
Ni 231.604	mg/L	0.422	0.5	85	1.89	2	95
Pb 220.353	mg/L	0.848	1.0	86	4.78	5	96
V 309.310	mg/L	0.417	0.5	85	0.46	0.5	94
Zn 213.857	mg/L	0.884	1.0	85	9.31	10	93

IH
082603

LCS 0287

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

Element	Meas. (mg/kg)	"True" (mg/kg)	%Dev.	Control (mg/kg)	Limits (mg/kg)
Ag	22	20.85	5.52%	13.2	28.5
Al	290	308.65	-6.04%	193.1	424.2
Ba	6.1	5.3	15.09%	2.5	8.1
Be	20	18.75	6.67%	15.3	22.2
Ca	200000	184154.5	8.60%	142933	225376
Cd	41	41.6	-1.44%	32.1	51.1
Co	140	140.5	-0.36%	115.4	165.6
Cr	100	96.5	3.63%	77.8	115.2
Cu	6500	6680.2	-2.70%	5727.3	7633.1
Mg	110000	113189.5	-2.82%	97493	128886
Fe	25000	21012.15	18.98%	16831.3	25193
K	49	189.65	-74.16%	0	379.3
Mn	220	201.15	9.37%	167.9	234.4
Na	130	138.7	-6.27%	0	277.4
Ni	59	56.8	3.87%	43.5	70.1
Pb	220	224.05	-1.81%	167.6	280.5
V	66	65.8	0.30%	53	78.6
Zn	190	174.9	8.63%	127.7	222.1

KB
082603

Work Order Number: 0305007
Analysis Date: 08/19/2003
Sample Name: 0305007-16

DUPLICATE

Element	Units	Sample	Duplicate	Difference	Rpt Limit	RPD
Ag 338.289	mg/kg	0.1	0.4	-0.3	1.0	-104%
Al 308.215	mg/kg	1468	1471	-3.2	10	-0%
B 249.677	mg/kg	1.6	6.6	-5.0	6.9	-121%
Ba 455.403	mg/kg	17.27	17.62	-0.3	0.20	-2%
Be 313.042	mg/kg	0.11	0.12	-0.0	0.10	-1%
Ca 315.887	mg/kg	16890	16933	-42.5	10	-0%
Cd 228.802	mg/kg	1.2	1.1	0.0	2.0	2%
Co 228.616	mg/kg	3.9	4.4	-0.5	2.0	-11%
Cr 283.563	mg/kg	23.0	22.8	0.3	2.0	1%
Cu 324.752	mg/kg	26.0	24.9	1.1	1.0	4%
Fe 273.955	mg/kg	18804	18609	194.6	5	1%
K 766.490	mg/kg	181	208	-27.3	247	-14%
Li 670.784	mg/kg	2.3	1.3	1.0	4.9	53%
Mg 279.077	mg/kg	8794	8720	73.8	10	1%
Mn 257.610	mg/kg	138.96	135.36	3.6	0.49	3%
Mo 204.597	mg/kg	4	5	-1.2	10	-27%
Na 589.592	mg/kg	70	94	-24.3	198	-30%
Ni 231.604	mg/kg	18.2	18.3	-0.1	1.0	-0%
Pb 220.353	mg/kg	169	152	16.6	10	10%
Sn 283.998	mg/kg	6	7	-0.4	0	-7%
Ti 336.121	mg/kg	76.9	103.9	-27.0	0.5	-30%
V 310.230	mg/kg	7	6	0.4	6	6%
Zn 213.857	mg/kg	248	236	11.7	5	5%

SPIKE

Element	Units	Sample	Spike	Spike Added	% Recovery	Spike II	Spike Added	% Recovery
Ag 338.289	mg/kg	0.1	16.7	19.7	84			
B 249.677	mg/kg	2	186	197.4	93	191	195	97
Ba 455.403	mg/kg	17.27	111.86	98.7	96	982.99	976.18	99
Be 313.042	mg/kg	0.11	8.79	9.9	88	9.84	9.76	100
Cd 228.802	mg/kg	1.2	18.1	19.7	86	174.1	195.2	89
Co 228.616	mg/kg	3.9	85.5	98.7	83	89.9	97.6	88
Cr 283.563	mg/kg	23.0	113.7	98.7	92	943.1	976.2	94
Cu 324.752	mg/kg	26.0	110.0	98.7	85	914.4	976.2	91
Li 670.784	mg/kg	2	96	98.7	94	99	98	99
Mn 257.610	mg/kg	138.96	524.60	394.7	98	2028.72	1952.36	97
Mo 204.597	mg/kg	4	175	197.4	87			
Ni 231.604	mg/kg	18.2	101.7	98.7	85	374.4	390.5	91
Pb 220.353	mg/kg	168.8	321.7	197.4	78	1059.8	976.2	91
Sn 283.998	mg/kg	6	86	197.4	40			
V 310.230	mg/kg	7	91	98.7	85	97	98	92
Zn 213.857	mg/kg	248	415	197.4	85	2021	1952	91

AB
082603

Work Order Number: 0305007
Analysis Date: 08/19/2003
Sample Name: 0305007-25

DUPLICATE

Element	Units	Sample	Duplicate	Difference	Rpt Limit	RPD
Ag 338.289	mg/kg	0.2	-0.1	0.3	0.9	356%
Al 308.215	mg/kg	938	966	-28.8	9	-3%
B 249.677	mg/kg	1.2	3.0	-1.8	6.5	-86%
Ba 455.403	mg/kg	6.87	6.71	0.2	0.18	2%
Be 313.042	mg/kg	0.07	0.06	0.0	0.09	20%
Ca 315.887	mg/kg	31545	30633	912.2	9	3%
Cd 228.802	mg/kg	0.2	-0.1	0.3	1.8	383%
Co 228.616	mg/kg	3.9	3.8	0.1	1.8	3%
Cr 283.563	mg/kg	8.5	8.5	-0.0	1.8	-0%
Cu 324.752	mg/kg	7.5	8.0	-0.5	0.9	-7%
Fe 273.955	mg/kg	6630	6804	-174.4	5	-3%
K 766.490	mg/kg	161	162	-1.4	230	-1%
Li 670.784	mg/kg	2.0	1.6	0.5	4.6	26%
Mg 279.077	mg/kg	16115	15948	167.1	9	1%
Mn 257.610	mg/kg	134.90	135.88	-1.0	0.46	-1%
Mo 204.597	mg/kg	5	3	1.4	9	34%
Na 589.592	mg/kg	93	74	18.8	184	22%
Ni 231.604	mg/kg	5.7	7.5	-1.9	0.9	-28%
Pb 220.353	mg/kg	39	49	-9.4	9	-21%
Sn 283.998	mg/kg	-11	-9	-1.8	0	17%
Ti 336.121	mg/kg	87.0	82.2	4.8	0.5	6%
V 310.230	mg/kg	6	5	1.3	6	23%
Zn 213.857	mg/kg	96	118	-21.9	5	-20%

SPIKE

Element	Units	Sample	Spike	Spike Added	% Recovery	Spike II	Spike Added	% Recovery
Ag 338.289	mg/kg	0.2	15.5	18.6	82			
B 249.677	mg/kg	1	168	186.3	90	173	179	96
Ba 455.403	mg/kg	6.87	95.06	93.2	95	912.16	897.02	101
Be 313.042	mg/kg	0.07	8.09	9.3	86	9.04	8.97	100
Cd 228.802	mg/kg	0.2	16.6	18.6	88	162.4	179.4	90
Co 228.616	mg/kg	3.9	81.2	93.2	83	81.8	89.7	87
Cr 283.563	mg/kg	8.5	89.4	93.2	87	858.9	897.0	95
Cu 324.752	mg/kg	7.5	85.5	93.2	84	819.4	897.0	91
Li 670.784	mg/kg	2	90	93.2	94	94	90	103
Mn 257.610	mg/kg	134.90	460.37	372.6	87	1877.51	1794.04	97
Mo 204.597	mg/kg	5	168	186.3	88			
Ni 231.604	mg/kg	5.7	84.6	93.2	85	337.1	358.8	92
Pb 220.353	mg/kg	39.5	204.3	186.3	88	890.0	897.0	95
Sn 283.998	mg/kg	-11	68	186.3	42			
V 310.230	mg/kg	6	87	93.2	87	93	90	97
Zn 213.857	mg/kg	96	256	186.3	85	1725	1794	91

KR
082603

Report Level Check

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Actual	Recovery	Units
RLC	Ag 328.068	0.008	0.01	84%	mg/L
11:17 AM	Al 308.215	0.490	0.5	98%	mg/L
	B 249.677	0.107	0.1	107%	mg/L
	Ba 455.403	0.011	0.01	108%	mg/L
	Be 313.042	0.005	0.005	96%	mg/L
	Ca 315.887	0.557	0.5	111%	mg/L
	Cd 228.802	0.051	0.05	103%	mg/L
	Co 228.616	0.097	0.1	97%	mg/L
	Cr 283.563	0.047	0.05	95%	mg/L
	Cu 324.752	0.048	0.05	97%	mg/L
	Fe 273.955	0.548	0.5	110%	mg/L
	K 766.490	0.410	0.5	82%	mg/L
	Li 670.784	0.042	0.05	84%	mg/L
	Mg 279.077	0.520	0.5	104%	mg/L
	Mn 257.610	0.005	0.005	108%	mg/L
	Mo 204.597	0.115	0.1	115%	mg/L
	Na 589.592	1.029	1	103%	mg/L
	Ni 231.604	0.095	0.1	95%	mg/L
	Pb 220.353	0.979	0.5	196%	mg/L
	Sn 283.998	0.041	0.1	41%	mg/L
	Ti 336.121	0.010	0.01	103%	mg/L
	V 310.289	0.051	0.05	102%	mg/L
	Zn 213.857	0.490	0.50	98%	mg/L

AB
082603

SIC AsTi

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	-0.018	0.003	mg/L
12:00 AM	Al 308.215	-0.014	0.025	mg/L
	B 249.677	0.00	0.02	mg/L
	Ba 455.403	-0.0039	0.0004	mg/L
	Be 313.042	0.0002	0.0002	mg/L
	Ca 315.887	0.10	0.02	mg/L
	Cd 228.802	-0.096	0.006	mg/L
	Co 228.616	-0.000	0.004	mg/L
	Cr 283.563	-0.002	0.006	mg/L
	Cu 324.752	-0.007	0.003	mg/L
	Fe 273.955	0.20	0.02	mg/L
	K 766.490	-0.0	0.7	mg/L
	Li 670.784	0.00	0.01	mg/L
	Mg 279.077	0.05	0.03	mg/L
	Mn 257.610	-0.0012	0.0007	mg/L
	Mo 204.597	-0.00	0.03	mg/L
	Na 589.592	0.0	0.5	mg/L
	Ni 231.604	-0.006	0.003	mg/L
	Pb 220.353	-0.016	0.032	mg/L
	Sn 283.998	-0.03	0.02	mg/L
	Ti 336.121	47.858	0.001	mg/L
	V 310.289	-0.01	0.02	mg/L
	Zn 213.857	0.08	0.01	mg/L

KB
082603

SIC AlFe

Sample Batch Number: 0305007
Analysis Date: 08/19/2003
Results Data Set: 0305007 081903 IH

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	0.001	0.003	mg/L
12:00 AM	Al 308.215	187.903	0.025	mg/L
	B 249.677	-0.00	0.02	mg/L
	Ba 455.403	0.0003	0.0004	mg/L
	Be 313.042	-0.0001	0.0002	mg/L
	Ca 315.887	0.02	0.02	mg/L
	Cd 228.802	-0.002	0.006	mg/L
	Co 228.616	0.005	0.004	mg/L
	Cr 283.563	-0.011	0.006	mg/L
	Cu 324.752	0.002	0.003	mg/L
	Fe 273.955	203.85	0.02	mg/L
	K 766.490	-0.0	0.7	mg/L
	Li 670.784	0.01	0.01	mg/L
	Mg 279.077	-0.02	0.03	mg/L
	Mn 257.610	0.0005	0.0007	mg/L
	Mo 204.597	-0.02	0.03	mg/L
	Na 589.592	0.0	0.5	mg/L
	Ni 231.604	0.000	0.003	mg/L
	Pb 220.353	0.052	0.032	mg/L
	Sn 283.998	0.03	0.02	mg/L
	Ti 336.121	0.011	0.001	mg/L
	V 310.289	-0.01	0.02	mg/L
	Zn 213.857	0.05	0.01	mg/L

KB
082603

Reprocessing Begun
Logged In Analyst: KSWAN Technique: ICP Continuous

Results Data Set (original): 0305007 081903 IH
Results Library (original): D:\KSWAN\Results\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Method Loaded
Method Name: SedSpring03 Method Last Saved: 7/10/03 3:09:06 PM
IEC File: 071003sed.iec MSF File:
Method Description: method

Sequence No.: 1 Autosampler Location: 9
Sample ID: Calib Blank 1 Date Collected: 8/19/03 10:02:03 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Reprocessed on 8/20/03 9:01:55 AM,

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	165016.9	1469.10	0.89%		
Ag 328.068†	-65.0	3.71	5.71%	[0.00]	mg/L
Ag 338.289†	-10.4	2.00	19.28%	[0.00]	mg/L
Al 308.215†	-45.9	24.56	53.54%	[0.00]	mg/L
Al 394.401†	33.3	6.37	19.10%	[0.00]	mg/L
Al 396.153†	97.9	8.45	8.63%	[0.00]	mg/L
As 188.979†	-0.2	0.48	202.30%	[0.00]	mg/L
As 193.696†	0.1	0.85	812.82%	[0.00]	mg/L
As 197.197†	0.6	2.15	368.15%	[0.00]	mg/L
B 208.889†	12.3	1.81	14.70%	[0.00]	mg/L
B 249.677†	3.2	3.27	101.83%	[0.00]	mg/L
B 249.772†	15.3	1.28	8.35%	[0.00]	mg/L
Ba 233.527†	-2.3	2.26	97.72%	[0.00]	mg/L
Ba 455.403†	162.3	6.28	3.87%	[0.00]	mg/L
Ba 493.408†	-408.8	55.06	13.47%	[0.00]	mg/L
Be 234.861†	-22.6	1.89	8.35%	[0.00]	mg/L
Be 313.042†	12.3	7.51	61.21%	[0.00]	mg/L
Be 313.107†	-3.2	2.46	76.23%	[0.00]	mg/L
Ca 315.887†	52.4	6.65	12.69%	[0.00]	mg/L
Ca 317.933†	422.3	5.31	1.26%	[0.00]	mg/L
Cd 214.440†	-14.4	0.45	3.13%	[0.00]	mg/L
Cd 226.502†	0.5	2.04	376.26%	[0.00]	mg/L
Cd 228.802†	-24.8	2.49	10.02%	[0.00]	mg/L
Ce 413.380†	-38.3	4.78	12.48%	[0.00]	mg/L
Ce 413.764†	179.1	7.60	4.24%	[0.00]	mg/L
Ce 418.660†	253.1	10.52	4.16%	[0.00]	mg/L
Co 228.616†	-14.4	1.65	11.48%	[0.00]	mg/L
Co 230.786†	14.8	1.43	9.69%	[0.00]	mg/L
Co 238.892†	12.8	0.92	7.22%	[0.00]	mg/L
Cr 205.560†	0.9	0.77	88.62%	[0.00]	mg/L
Cr 267.716†	6.4	6.25	97.82%	[0.00]	mg/L
Cr 283.563†	44.7	2.22	4.97%	[0.00]	mg/L
Cu 224.700†	9.3	1.94	20.85%	[0.00]	mg/L
Cu 324.752†	51.2	10.27	20.06%	[0.00]	mg/L
Cu 327.393†	-24.0	5.60	23.34%	[0.00]	mg/L
Fe 238.204†	50.2	4.47	8.89%	[0.00]	mg/L
Fe 239.562†	10.9	0.16	1.43%	[0.00]	mg/L
Fe 259.939†	122.3	4.75	3.89%	[0.00]	mg/L
Fe 273.955†	9.5	4.14	43.49%	[0.00]	mg/L
K 766.490†	548.0	77.26	14.10%	[0.00]	mg/L
Li 610.362†	26034.3	578.07	2.22%	[0.00]	mg/L
Li 670.784†	797.2	59.48	7.46%	[0.00]	mg/L
Mg 279.077†	14.9	3.35	22.48%	[0.00]	mg/L
Mg 280.271†	224.9	6.77	3.01%	[0.00]	mg/L

KS 09 04 03
repdel to printer

Sequence No.: 3
Sample ID: Cal 2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 8/19/03 10:09:51 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 9:02:01 AM,

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	171112.6	2687.78	1.57%		
Li 610.362†	26723.2	680.37	2.55%	[5]	mg/L
Li 670.784†	182501.2	812.42	0.45%	[5]	mg/L
Mo 202.031†	85.4	1.85	2.17%	[10]	mg/L
Mo 203.845†	297.8	5.14	1.73%	[10]	mg/L
Mo 204.597†	575.5	11.64	2.02%	[10]	mg/L
Na 588.995†	58238.5	318.70	0.55%	[10]	mg/L
Ti 334.940†	198300.5	131.85	0.07%	[10]	mg/L
Ti 336.121†	138819.4	230.19	0.17%	[10]	mg/L
Ti 337.279†	72809.9	173.79	0.24%	[10]	mg/L

Sequence No.: 4
Sample ID: Cal 3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 12
Date Collected: 8/19/03 10:13:32 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 9:02:02 AM,

Mean Data: Cal 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	163376.5	1173.29	0.72%		
Ce 413.380†	2192.3	18.45	0.84%	[2]	mg/L
Ce 413.764†	2369.6	13.94	0.59%	[2]	mg/L
Ce 418.660†	3109.7	25.03	0.81%	[2]	mg/L
Co 228.616†	1100.0	1.88	0.17%	[2]	mg/L
Co 230.786†	1186.9	8.52	0.72%	[2]	mg/L
Co 238.892†	1002.4	14.45	1.44%	[2]	mg/L
V 290.880†	5671.1	30.17	0.53%	[2]	mg/L
V 309.310†	12582.7	63.90	0.51%	[2]	mg/L
V 310.230†	14613.1	123.39	0.84%	[2]	mg/L

Sequence No.: 5
Sample ID: Cal 4A+B
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 8/19/03 10:17:13 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 9:02:03 AM,

Mean Data: Cal 4A+B

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	168587.2	1476.25	0.88%		
Al 394.401†	8386.6	46.98	0.56%	[10]	mg/L
Al 396.153†	18353.2	106.06	0.58%	[10]	mg/L
Cr 205.560†	630.4	5.17	0.82%	[5]	mg/L
Cr 267.716†	4096.7	46.39	1.13%	[5]	mg/L
Cr 283.563†	21575.5	19.39	0.09%	[5]	mg/L
Sn 189.927†	32.9	1.17	3.56%	[4]	mg/L
Sn 235.485†	154.1	2.17	1.41%	[4]	mg/L
Sn 283.998†	1370.7	4.64	0.34%	[4]	mg/L

Sequence No.: 6
Sample ID: Cal 4C
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 14
Date Collected: 8/19/03 10:20:56 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 9:02:04 AM,

Mean Data: Cal 4C

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	168605.6	2788.57	1.65%		
Ba 233.527†	9339.6	246.11	2.64%	[5]	mg/L
Ba 455.403†	577051.7	4890.78	0.85%	[5]	mg/L
Ba 493.408†	561454.1	4874.39	0.87%	[5]	mg/L
Cu 224.700†	1267.5	30.13	2.38%	[5]	mg/L
Cu 324.752†	29606.6	258.47	0.87%	[5]	mg/L
Cu 327.393†	13127.0	380.60	2.90%	[5]	mg/L
Mn 257.610†	117252.1	970.57	0.83%	[10]	mg/L
Mn 259.372†	108413.0	1153.47	1.06%	[10]	mg/L
Mn 260.568†	73021.4	696.70	0.95%	[10]	mg/L
Zn 202.548†	2693.0	72.42	2.69%	[10]	mg/L
Zn 206.200†	3047.4	72.22	2.37%	[10]	mg/L
Zn 213.857†	4724.9	112.73	2.39%	[10]	mg/L

==========

Sequence No.: 7 **Autosampler Location: 15**
Sample ID: Cal 5 **Date Collected: 8/19/03 10:24:39 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:07 AM,**

Mean Data: Cal 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	167123.1	3666.52	2.19%		
Be 234.861†	12335.3	193.23	1.57%	[1]	mg/L
Be 313.042†	66087.8	1204.00	1.82%	[1]	mg/L
Be 313.107†	35124.0	690.56	1.97%	[1]	mg/L
Fe 238.204†	15205.5	303.24	1.99%	[10]	mg/L
Fe 239.562†	8761.7	135.20	1.54%	[10]	mg/L
Fe 259.939†	29021.4	504.34	1.74%	[10]	mg/L
Mg 280.271†	473692.7	1283.41	0.27%	[10]	mg/L
Mg 285.213†	40024.4	778.92	1.95%	[10]	mg/L
Ni 221.648†	158.1	3.70	2.34%	[2]	mg/L
Ni 231.604†	577.1	9.97	1.73%	[2]	mg/L
Ni 232.003†	344.1	5.66	1.64%	[2]	mg/L
Pb 217.000†	210.3	7.68	3.65%	[10]	mg/L
Pb 220.353†	435.0	11.40	2.62%	[10]	mg/L
Tl 190.801†	24.7	1.01	4.08%	[5]	mg/L
Tl 276.787†	470.5	10.69	2.27%	[5]	mg/L
Tl 351.924†	768.6	20.13	2.62%	[5]	mg/L

==========

Sequence No.: 8 **Autosampler Location: 16**
Sample ID: Hi Cal **Date Collected: 8/19/03 10:28:26 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:08 AM,**

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	159107.1	1761.37	1.11%		
Al 308.215†	311036.9	1203.43	0.39%	[500]	mg/L
Ca 315.887†	918807.1	3379.68	0.37%	[500]	mg/L
Fe 273.955†	213867.2	668.28	0.31%	[500]	mg/L
K 766.490†	668787.5	351.64	0.05%	[500]	mg/L
Mg 279.077†	156476.0	918.27	0.59%	[500]	mg/L
Na 589.592†	780449.1	1817.38	0.23%	[200]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope

Ag 328.068	1	Lin, Calc Int	0.0	4906	0.00000	1.000000
Ag 338.289	1	Lin, Calc Int	0.0	2779	0.00000	1.000000
Al 308.215	1	Lin, Calc Int	0.0	622.1	0.00000	1.000000
Al 394.401	1	Lin, Calc Int	0.0	838.7	0.00000	1.000000
Al 396.153	1	Lin, Calc Int	0.0	1835	0.00000	1.000000
As 188.979	1	Lin, Calc Int	0.0	6.912	0.00000	1.000000
As 193.696	1	Lin, Calc Int	0.0	5.010	0.00000	1.000000
As 197.197	1	Lin, Calc Int	-0.0	5.655	0.00000	1.000000
B 208.889	1	Lin, Calc Int	0.0	58.17	0.00000	1.000000
B 249.677	1	Lin, Calc Int	0.0	431.0	0.00000	1.000000
B 249.772	1	Lin, Calc Int	0.0	978.8	0.00000	1.000000
Ba 233.527	1	Lin, Calc Int	0.0	1868	0.00000	1.000000
Ba 455.403	1	Lin, Calc Int	0.0	115400	0.00000	1.000000
Ba 493.408	1	Lin, Calc Int	0.0	112300	0.00000	1.000000
Be 234.861	1	Lin, Calc Int	0.0	12340	0.00000	1.000000
Be 313.042	1	Lin, Calc Int	0.0	66090	0.00000	1.000000
Be 313.107	1	Lin, Calc Int	0.0	35120	0.00000	1.000000
Ca 315.887	1	Lin, Calc Int	0.0	1838	0.00000	1.000000
Ca 317.933	1	Lin, Calc Int	0.0	1880	0.00000	1.000000
Cd 214.440	1	Lin, Calc Int	0.0	832.6	0.00000	1.000000
Cd 226.502	1	Lin, Calc Int	0.0	522.6	0.00000	1.000000
Cd 228.802	1	Lin, Calc Int	0.0	758.4	0.00000	1.000000
Ce 413.380	1	Lin, Calc Int	0.0	1096	0.00000	1.000000
Ce 413.764	1	Lin, Calc Int	0.0	1185	0.00000	1.000000
Ce 418.660	1	Lin, Calc Int	0.0	1555	0.00000	1.000000
Co 228.616	1	Lin, Calc Int	0.0	550.0	0.00000	1.000000
Co 230.786	1	Lin, Calc Int	0.0	593.5	0.00000	1.000000
Co 238.892	1	Lin, Calc Int	0.0	501.2	0.00000	1.000000
Cr 205.560	1	Lin, Calc Int	0.0	126.1	0.00000	1.000000
Cr 267.716	1	Lin, Calc Int	0.0	819.3	0.00000	1.000000
Cr 283.563	1	Lin, Calc Int	0.0	4315	0.00000	1.000000
Cu 224.700	1	Lin, Calc Int	0.0	253.5	0.00000	1.000000
Cu 324.752	1	Lin, Calc Int	-0.0	5921	0.00000	1.000000
Cu 327.393	1	Lin, Calc Int	0.0	2625	0.00000	1.000000
Fe 238.204	1	Lin, Calc Int	0.0	1521	0.00000	1.000000
Fe 239.562	1	Lin, Calc Int	0.0	876.2	0.00000	1.000000
Fe 259.939	1	Lin, Calc Int	0.0	2902	0.00000	1.000000
Fe 273.955	1	Lin, Calc Int	0.0	427.7	0.00000	1.000000
K 766.490	1	Lin, Calc Int	0.0	1338	0.00000	1.000000
Li 610.362	1	Lin, Calc Int	0.0	5345	0.00000	1.000000
Li 670.784	1	Lin, Calc Int	-0.0	36500	0.00000	1.000000
Mg 279.077	1	Lin, Calc Int	0.0	313.0	0.00000	1.000000
Mg 280.271	1	Lin, Calc Int	0.0	47370	0.00000	1.000000
Mg 285.213	1	Lin, Calc Int	0.0	4002	0.00000	1.000000
Mn 257.610	1	Lin, Calc Int	0.0	11730	0.00000	1.000000
Mn 259.372	1	Lin, Calc Int	-0.0	10840	0.00000	1.000000
Mn 260.568	1	Lin, Calc Int	0.0	7302	0.00000	1.000000
Mo 202.031	1	Lin, Calc Int	0.0	8.537	0.00000	1.000000
Mo 203.845	1	Lin, Calc Int	0.0	29.78	0.00000	1.000000
Mo 204.597	1	Lin, Calc Int	0.0	57.55	0.00000	1.000000
Na 588.995	1	Lin, Calc Int	0.0	5824	0.00000	1.000000
Na 589.592	1	Lin, Calc Int	-0.0	3902	0.00000	1.000000
Ni 221.648	1	Lin, Calc Int	0.0	79.07	0.00000	1.000000
Ni 231.604	1	Lin, Calc Int	0.0	288.6	0.00000	1.000000
Ni 232.003	1	Lin, Calc Int	0.0	172.1	0.00000	1.000000
Pb 217.000	1	Lin, Calc Int	0.0	21.03	0.00000	1.000000
Pb 220.353	1	Lin, Calc Int	0.0	43.50	0.00000	1.000000
Sb 206.836	1	Lin, Calc Int	0.0	22.10	0.00000	1.000000
Sb 217.582	1	Lin, Calc Int	0.0	18.17	0.00000	1.000000
Sb 231.146	1	Lin, Calc Int	0.0	19.97	0.00000	1.000000
Se 196.026	1	Lin, Calc Int	0.0	7.073	0.00000	1.000000
Se 203.985	1	Lin, Calc Int	0.0	7.320	0.00000	1.000000
Sn 189.927	1	Lin, Calc Int	0.0	8.218	0.00000	1.000000
Sn 235.485	1	Lin, Calc Int	0.0	38.52	0.00000	1.000000
Sn 283.998	1	Lin, Calc Int	0.0	342.7	0.00000	1.000000
Sr 407.771	1	Lin, Calc Int	0.0	314000	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	140600	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	2032	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	0.0	19830	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	0.0	13880	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	7281	0.00000	1.000000

Tl 190.801	1	Lin, Calc Int	0.0	4.941	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	94.11	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	0.0	153.7	0.00000	1.000000
V 290.880	1	Lin, Calc Int	0.0	2836	0.00000	1.000000
V 309.310	1	Lin, Calc Int	0.0	6291	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	7307	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	0.0	269.3	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	304.7	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	472.5	0.00000	1.000000

Sequence No.: 9 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 8/19/03 10:44:54 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:15 AM,**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	169582.4						3210.95	1.89%
Ag 328.068†	-0.1	-0.00003	mg/L	0.001181				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-7.9	-0.00281	mg/L	0.001871				66.47%
Al 308.215†	4.7	0.00720	mg/L	0.005542				77.02%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	10.0	0.01246	mg/L	0.001657				13.30%
Al 396.153†	12.1	0.00519	mg/L	0.004457				85.86%
As 188.979†	0.5	0.06508	mg/L	0.123259				189.40%
As 193.696†	-0.7	-0.1410	mg/L	0.26577				188.55%
As 197.197†	-1.4	-0.2445	mg/L	0.09484				38.79%
B 208.889†	0.1	0.00200	mg/L	0.026828				>999.9%
B 249.677†	1.1	0.00248	mg/L	0.005810				233.89%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	0.1	0.00010	mg/L	0.001037				>999.9%
Ba 233.527†	1.6	0.00089	mg/L	0.003086				347.44%
Ba 455.403†	-6.3	-0.00004	mg/L	0.000089				210.03%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	97.9	0.00089	mg/L	0.000337				38.07%
Be 234.861†	0.3	0.00002	mg/L	0.000288				>999.9%
Be 313.042†	-7.4	-0.00011	mg/L	0.000073				65.84%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-4.1	-0.00012	mg/L	0.000065				56.48%
Ca 315.887†	32.6	0.01773	mg/L	0.005096				28.74%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	25.2	0.01346	mg/L	0.002610				19.39%
Cd 214.440†	1.2	0.00138	mg/L	0.001169				84.53%
Cd 226.502†	-0.6	-0.00116	mg/L	0.002756				238.02%
Cd 228.802†	2.5	0.00493	mg/L	0.003657				74.18%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-9.3	-0.00846	mg/L	0.016629				196.44%
Ce 413.764†	1.5	0.00126	mg/L	0.011726				930.76%
Ce 418.660†	5.1	0.00331	mg/L	0.007379				222.83%
Co 228.616†	4.0	0.00734	mg/L	0.004213				57.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-3.5	-0.00590	mg/L	0.002887				48.94%
Co 238.892†	-0.8	-0.00162	mg/L	0.002799				172.82%
Cr 205.560†	-1.2	-0.00986	mg/L	0.000840				8.51%
Cr 267.716†	3.1	0.00379	mg/L	0.000425				11.23%
Cr 283.563†	2.5	0.00058	mg/L	0.000933				159.76%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-0.5	-0.00212	mg/L	0.004024				190.16%
Cu 324.752†	-6.6	-0.00116	mg/L	0.000355				30.61%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	4.2	0.00158	mg/L	0.001690				106.98%
Fe 238.204†	30.5	0.01997	mg/L	0.002325				11.64%
Fe 239.562†	15.6	0.01772	mg/L	0.002433				13.73%
Fe 259.939†	53.3	0.01829	mg/L	0.001754				9.59%
Fe 273.955†	9.0	0.02094	mg/L	0.007078				33.80%
QC value within limits for Fe 273.955 Recovery = Not calculated								

K 766.490†	151.2	0.1130	mg/L	0.03853	34.09%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated					
Li 610.362†	-864.4	-0.1615	mg/L	0.14142	87.56%
Li 670.784†	-176.8	-0.00485	mg/L	0.001189	24.53%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	7.2	0.02317	mg/L	0.008361	36.09%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	655.4	0.01385	mg/L	0.000481	3.48%
Mg 285.213†	60.3	0.01508	mg/L	0.000681	4.51%
Mn 257.610†	-0.5	-0.00005	mg/L	0.000269	542.55%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	8.5	0.00056	mg/L	0.000522	93.77%
Mn 260.568†	0.4	0.00006	mg/L	0.000198	333.68%
Mo 202.031†	0.1	0.01399	mg/L	0.051639	369.04%
Mo 203.845†	3.9	0.1325	mg/L	0.03164	23.89%
Mo 204.597†	2.3	0.03912	mg/L	0.015703	40.14%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	635.8	0.1092	mg/L	0.04824	44.19%
Na 589.592†	56.2	0.01441	mg/L	0.017543	121.74%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.8	0.00979	mg/L	0.020022	204.54%
Ni 231.604†	-0.4	-0.00127	mg/L	0.004414	348.81%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-2.2	-0.01263	mg/L	0.009941	78.68%
Pb 217.000†	-1.0	-0.04566	mg/L	0.063496	139.07%
Pb 220.353†	-2.7	-0.06187	mg/L	0.041253	66.68%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	0.0	0.00102	mg/L	0.053415	>999.9%
Sb 217.582†	-0.5	-0.03017	mg/L	0.068515	227.06%
Sb 231.146†	-1.1	-0.05579	mg/L	0.106113	190.19%
Se 196.026†	-2.6	-0.3726	mg/L	0.31746	85.20%
Se 203.985†	0.4	0.05288	mg/L	0.365113	690.46%
Sn 189.927†	0.9	0.1066	mg/L	0.05949	55.81%
Sn 235.485†	0.3	0.00255	mg/L	0.078619	>999.9%
Sn 283.998†	-3.6	-0.00612	mg/L	0.024414	399.19%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	1.1	0.00000	mg/L	0.000261	>999.9%
Sr 421.552†	18.5	0.00013	mg/L	0.000109	82.85%
Sr 460.733†	-11.4	-0.00557	mg/L	0.019706	353.53%
Ti 334.940†	1.6	0.00009	mg/L	0.000214	243.67%
Ti 336.121†	1.6	0.00011	mg/L	0.000414	374.34%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	7.1	0.00097	mg/L	0.000647	66.83%
Tl 190.801†	1.7	0.3359	mg/L	0.42583	126.78%
Tl 276.787†	-10.0	-0.1072	mg/L	0.03693	34.44%
Tl 351.924†	-5.0	-0.03244	mg/L	0.039943	123.12%
V 290.880†	-6.7	-0.00236	mg/L	0.001101	46.55%
V 309.310†	4.8	0.00069	mg/L	0.001022	149.02%
V 310.230†	10.3	0.00142	mg/L	0.004267	301.03%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	0.8	0.00313	mg/L	0.007618	243.32%
Zn 206.200†	0.4	0.00127	mg/L	0.006420	504.87%
Zn 213.857†	0.2	0.00042	mg/L	0.001582	377.98%
QC value within limits for Zn 213.857 Recovery = Not calculated					
QC Failed. Continue with analysis.					

Sequence No.: 10 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 10:48:39 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:20 AM,**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	169074.6						1802.48	1.07%
Ag 328.068†	1211.5	0.2473	mg/L	0.00380				1.54%
QC value within limits for Ag 328.068 Recovery = 98.90%								
Ag 338.289†	690.1	0.2496	mg/L	0.00378				1.51%

Al 308.215†	632.2	0.9948 mg/L	0.01863	1.87%
QC value within limits for Al 308.215 Recovery = 99.48%				
Al 394.401†	900.0	1.007 mg/L	0.0299	2.97%
Al 396.153†	1941.3	1.064 mg/L	0.0137	1.29%
As 188.979†	14.3	2.067 mg/L	0.0220	1.07%
As 193.696†	9.6	1.922 mg/L	0.0673	3.50%
As 197.197†	12.3	2.163 mg/L	0.0643	2.97%
B 208.889†	55.9	0.9591 mg/L	0.00567	0.59%
B 249.677†	415.8	0.9628 mg/L	0.01158	1.20%
QC value within limits for B 249.677 Recovery = 96.28%				
B 249.772†	938.9	0.9600 mg/L	0.01563	1.63%
Ba 233.527†	1829.1	0.9785 mg/L	0.01620	1.66%
Ba 455.403†	117299.4	1.016 mg/L	0.0061	0.60%
QC value within limits for Ba 455.403 Recovery = 101.58%				
Ba 493.408†	113521.5	1.010 mg/L	0.0063	0.62%
Be 234.861†	12029.2	0.9751 mg/L	0.00818	0.84%
Be 313.042†	64935.2	0.9820 mg/L	0.00437	0.45%
QC value within limits for Be 313.042 Recovery = 98.20%				
Be 313.107†	34526.1	0.9830 mg/L	0.00722	0.73%
Ca 315.887†	1996.8	1.083 mg/L	0.0081	0.75%
Ca 317.933†	1917.4	1.018 mg/L	0.0182	1.78%
QC value within limits for Ca 317.933 Recovery = 101.78%				
Cd 214.440†	832.9	1.001 mg/L	0.0098	0.98%
Cd 226.502†	519.4	0.9935 mg/L	0.01355	1.36%
Cd 228.802†	725.5	0.9337 mg/L	0.00917	0.98%
QC value within limits for Cd 228.802 Recovery = 93.37%				
Ce 413.380†	1068.7	0.9740 mg/L	0.03559	3.65%
Ce 413.764†	1135.2	0.9567 mg/L	0.01938	2.03%
Ce 418.660†	1545.3	0.9927 mg/L	0.02362	2.38%
Co 228.616†	525.1	0.9541 mg/L	0.01467	1.54%
QC value within limits for Co 228.616 Recovery = 95.41%				
Co 230.786†	562.7	0.9466 mg/L	0.01921	2.03%
Co 238.892†	472.6	0.9400 mg/L	0.00784	0.83%
Cr 205.560†	122.3	0.9692 mg/L	0.02082	2.15%
Cr 267.716†	796.9	0.9709 mg/L	0.01032	1.06%
Cr 283.563†	4272.3	0.9883 mg/L	0.01083	1.10%
QC value within limits for Cr 283.563 Recovery = 98.83%				
Cu 224.700†	251.9	0.9889 mg/L	0.01284	1.30%
Cu 324.752†	5979.1	1.008 mg/L	0.0131	1.30%
QC value within limits for Cu 324.752 Recovery = 100.81%				
Cu 327.393†	2611.7	0.9929 mg/L	0.01928	1.94%
Fe 238.204†	1601.8	1.061 mg/L	0.0161	1.52%
Fe 239.562†	920.5	1.058 mg/L	0.0166	1.57%
Fe 259.939†	3053.1	1.059 mg/L	0.0198	1.87%
QC value within limits for Fe 259.939 Recovery = 105.90%				
Fe 273.955†	489.6	1.146 mg/L	0.0147	1.29%
K 766.490†	6395.2	4.781 mg/L	0.0597	1.25%
QC value within limits for K 766.490 Recovery = 95.62%				
Li 610.362†	5344.5	0.9731 mg/L	0.06885	7.08%
Li 670.784†	36704.8	1.006 mg/L	0.0060	0.60%
QC value less than the lower limit for Li 670.784 Recovery = 20.12%				
Mg 279.077†	325.4	1.038 mg/L	0.0141	1.36%
Mg 280.271†	47462.8	1.001 mg/L	0.0062	0.62%
QC value within limits for Mg 280.271 Recovery = 100.11%				
Mg 285.213†	4038.9	1.009 mg/L	0.0080	0.79%
Mn 257.610†	11794.2	1.006 mg/L	0.0008	0.08%
QC value within limits for Mn 257.610 Recovery = 100.58%				
Mn 259.372†	10895.6	1.003 mg/L	0.0050	0.50%
Mn 260.568†	7308.1	0.9999 mg/L	0.00184	0.18%
Mo 202.031†	-0.7	-0.08084 mg/L	0.030017	37.13%
Mo 203.845†	1.5	0.04943 mg/L	0.028457	57.57%
Mo 204.597†	0.9	0.01371 mg/L	0.023977	174.91%
Na 588.995†	6572.7	1.129 mg/L	0.0236	2.09%
Na 589.592†	4199.2	1.076 mg/L	0.0161	1.50%
Ni 221.648†	77.7	0.9842 mg/L	0.05846	5.94%
Ni 231.604†	278.4	0.9643 mg/L	0.01503	1.56%
QC value within limits for Ni 231.604 Recovery = 96.43%				
Ni 232.003†	173.5	0.9627 mg/L	0.02020	2.10%
Pb 217.000†	42.6	2.014 mg/L	0.0336	1.67%
Pb 220.353†	84.8	1.965 mg/L	0.0258	1.31%
QC value within limits for Pb 220.353 Recovery = 98.25%				

Sb 206.836†	0.3	-0.00617	mg/L	0.060478	980.64%
Sb 217.582†	-0.1	-0.01097	mg/L	0.112734	>999.9%
Sb 231.146†	0.9	-0.07515	mg/L	0.121088	161.13%
Se 196.026†	4.9	0.6850	mg/L	0.20556	30.01%
Se 203.985†	5.6	0.6161	mg/L	0.15088	24.49%
Sn 189.927†	1.6	0.1873	mg/L	0.12190	65.09%
Sn 235.485†	13.1	-0.04185	mg/L	0.022160	52.95%
Sn 283.998†	144.3	-0.00624	mg/L	0.005286	84.77%
Sr 407.771†	315878.5	1.006	mg/L	0.0065	0.64%
Sr 421.552†	141837.2	1.009	mg/L	0.0061	0.60%
Sr 460.733†	2103.3	1.031	mg/L	0.0374	3.63%
Ti 334.940†	10.0	0.00008	mg/L	0.000582	702.50%
Ti 336.121†	4.1	0.00021	mg/L	0.000472	221.22%
Ti 337.279†	8.9	0.00132	mg/L	0.000834	62.92%
Tl 190.801†	22.2	4.480	mg/L	0.7158	15.98%
Tl 276.787†	428.1	4.525	mg/L	0.0122	0.27%
Tl 351.924†	743.3	4.824	mg/L	0.1008	2.09%
V 290.880†	2688.8	0.9486	mg/L	0.01134	1.20%
V 309.310†	6094.1	0.9645	mg/L	0.00982	1.02%
V 310.230†	7053.3	0.9642	mg/L	0.01693	1.76%
QC value within limits for V 310.230 Recovery = 96.42%					
Zn 202.548†	268.4	0.9904	mg/L	0.00927	0.94%
Zn 206.200†	306.0	1.006	mg/L	0.0047	0.47%
Zn 213.857†	472.5	0.9972	mg/L	0.01844	1.85%
QC value within limits for Zn 213.857 Recovery = 99.72%					
QC Failed. Continue with analysis.					

==========

Sequence No.: 11 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 10:52:26 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:27 AM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	166755.9						3278.55	1.97%
Ag 328.068†	-13.0	0.00016	mg/L	0.001434				924.16%
Ag 338.289†	-5.4	-0.00129	mg/L	0.001729				134.08%
Al 308.215†	24.9	0.02875	mg/L	0.009976				34.70%
Al 394.401†	26.7	0.03195	mg/L	0.016608				51.99%
Al 396.153†	129.0	0.03618	mg/L	0.006665				18.42%
As 188.979†	0.4	0.05262	mg/L	0.118543				225.29%
As 193.696†	-0.5	-0.09692	mg/L	0.332328				342.89%
As 197.197†	-0.2	-0.03378	mg/L	0.271121				802.71%
B 208.889†	-0.2	-0.00237	mg/L	0.011784				497.84%
B 249.677†	2.8	0.00664	mg/L	0.012585				189.44%
B 249.772†	4.7	0.00508	mg/L	0.002521				49.64%
Ba 233.527†	-26.0	-0.01317	mg/L	0.001562				11.85%
Ba 455.403†	186.1	0.00153	mg/L	0.000403				26.35%
Ba 493.408†	214.6	0.00183	mg/L	0.000408				22.32%
Be 234.861†	1.5	0.00021	mg/L	0.000196				93.49%
Be 313.042†	14.5	0.00020	mg/L	0.000107				52.11%
Be 313.107†	7.7	0.00020	mg/L	0.000173				87.34%
Ca 315.887†	60.9	0.03338	mg/L	0.004115				12.33%
Ca 317.933†	57.7	0.03146	mg/L	0.007147				22.72%
Cd 214.440†	0.3	0.00049	mg/L	0.002996				606.83%
Cd 226.502†	1.8	0.00335	mg/L	0.003633				108.46%
Cd 228.802†	-0.5	0.00035	mg/L	0.005968				>999.9%
Ce 413.380†	-8.5	-0.00789	mg/L	0.002051				26.01%
Ce 413.764†	11.3	0.00915	mg/L	0.005327				58.24%
Ce 418.660†	22.6	0.01423	mg/L	0.006527				45.88%
Co 228.616†	2.0	0.00241	mg/L	0.004620				191.32%
Co 230.786†	0.4	0.00017	mg/L	0.000912				527.57%
Co 238.892†	-2.5	-0.00468	mg/L	0.002617				55.89%
Cr 205.560†	0.3	0.00188	mg/L	0.004441				236.85%
Cr 267.716†	6.7	0.00814	mg/L	0.002881				35.41%
Cr 283.563†	-1.1	-0.00045	mg/L	0.000532				117.71%
Cu 224.700†	1.0	0.00034	mg/L	0.003114				916.25%

Cu 324.752†	8.3	-0.00108	mg/L	0.001344	123.92%
Cu 327.393†	8.2	0.00072	mg/L	0.004127	575.19%
Fe 238.204†	82.0	0.05606	mg/L	0.003551	6.34%
Fe 239.562†	47.2	0.05602	mg/L	0.003145	5.61%
Fe 259.939†	154.8	0.05558	mg/L	0.002170	3.90%
Fe 273.955†	25.4	0.06190	mg/L	0.010023	16.19%
K 766.490†	326.5	0.2441	mg/L	0.06171	25.28%
Li 610.362†	-128.9	-0.02684	mg/L	0.141688	527.83%
Li 670.784†	59.4	0.00180	mg/L	0.001469	81.72%
Mg 279.077†	-3.2	-0.00966	mg/L	0.014503	150.06%
Mg 280.271†	503.5	0.01068	mg/L	0.000293	2.74%
Mg 285.213†	45.9	0.01156	mg/L	0.000864	7.47%
Mn 257.610†	24.2	0.00168	mg/L	0.000231	13.74%
Mn 259.372†	79.7	0.00204	mg/L	0.000454	22.20%
Mn 260.568†	17.4	0.00241	mg/L	0.000499	20.66%
Mo 202.031†	8.4	0.9896	mg/L	0.06394	6.46%
Mo 203.845†	33.1	1.110	mg/L	0.0427	3.84%
Mo 204.597†	57.1	0.9909	mg/L	0.01347	1.36%
QC value within limits for Mo 204.597 Recovery = 99.09%					
Na 588.995†	754.1	0.1295	mg/L	0.07168	55.36%
Na 589.592†	426.0	0.1092	mg/L	0.00981	8.98%
Ni 221.648†	-2.4	-0.03050	mg/L	0.033109	108.56%
Ni 231.604†	1.1	0.00340	mg/L	0.005613	165.00%
Ni 232.003†	0.3	-0.00411	mg/L	0.009912	241.11%
Pb 217.000†	1.2	0.05795	mg/L	0.068708	118.57%
Pb 220.353†	-1.5	-0.03215	mg/L	0.044238	137.61%
Sb 206.836†	45.4	2.054	mg/L	0.0500	2.44%
QC value within limits for Sb 206.836 Recovery = 102.68%					
Sb 217.582†	38.5	2.116	mg/L	0.0784	3.71%
QC value within limits for Sb 217.582 Recovery = 105.79%					
Sb 231.146†	39.8	1.989	mg/L	0.0443	2.23%
QC value within limits for Sb 231.146 Recovery = 99.47%					
Se 196.026†	-0.7	-0.1007	mg/L	0.08921	88.63%
Se 203.985†	-0.1	-0.07926	mg/L	0.162729	205.31%
Sn 189.927†	37.0	4.501	mg/L	0.0827	1.84%
Sn 235.485†	188.2	4.902	mg/L	0.1395	2.85%
Sn 283.998†	793.8	2.319	mg/L	0.0307	1.32%
QC value less than the lower limit for Sn 283.998 Recovery = 46.38%					
Sr 407.771†	125.0	0.00028	mg/L	0.000183	65.87%
Sr 421.552†	88.0	0.00051	mg/L	0.000071	13.99%
Sr 460.733†	-30.2	-0.01413	mg/L	0.017738	125.52%
Ti 334.940†	19771.4	0.9971	mg/L	0.00516	0.52%
Ti 336.121†	13819.4	0.9955	mg/L	0.00426	0.43%
QC value within limits for Ti 336.121 Recovery = 99.55%					
Ti 337.279†	7287.0	1.001	mg/L	0.0017	0.17%
Tl 190.801†	-0.4	-0.07334	mg/L	0.117584	160.32%
Tl 276.787†	-1.0	-0.00788	mg/L	0.050491	641.04%
Tl 351.924†	-2.3	-0.01811	mg/L	0.047954	264.83%
V 290.880†	-2.9	-0.00108	mg/L	0.003014	279.05%
V 309.310†	8.6	0.00152	mg/L	0.000568	37.33%
V 310.230†	-0.5	0.00000	mg/L	0.001751	>999.9%
Zn 202.548†	1.9	0.00795	mg/L	0.004309	54.22%
Zn 206.200†	3.1	0.01092	mg/L	0.006565	60.13%
Zn 213.857†	3.7	0.00842	mg/L	0.003387	40.24%

QC Failed. Continue with analysis.

Sequence No.: 12 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 10:56:12 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:33 AM,**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162738.8						1728.32	1.06%
Ag 328.068†	2.9	0.00165	mg/L	0.002487				150.48%
Ag 338.289†	-21.4	-0.00140	mg/L	0.001593				113.90%
Al 308.215†	60618.6	97.43	mg/L	0.300				0.31%

QC value within limits for Al 308.215 Recovery = 97.43%					
Al 394.401†	82989.4	98.99	mg/L	0.333	0.34%
Al 396.153†	184115.7	100.3	mg/L	0.36	0.36%
As 188.979†	1.2	0.1012	mg/L	0.08145	80.49%
As 193.696†	0.8	0.1778	mg/L	0.23048	129.64%
As 197.197†	-4.1	-0.4966	mg/L	0.24087	48.51%
B 208.889†	1.2	0.01459	mg/L	0.042256	289.62%
B 249.677†	-5.0	-0.00926	mg/L	0.003742	40.42%
B 249.772†	48.8	-0.00366	mg/L	0.001942	53.10%
Ba 233.527†	15.6	-0.00076	mg/L	0.002301	304.35%
Ba 455.403†	110.4	0.00059	mg/L	0.000108	18.13%
Ba 493.408†	255.2	0.00114	mg/L	0.000116	10.21%
Be 234.861†	118.7	0.00178	mg/L	0.000516	28.96%
Be 313.042†	2.0	-0.00016	mg/L	0.000049	30.94%
Be 313.107†	1.8	0.00004	mg/L	0.000157	404.01%
Ca 315.887†	191509.6	104.2	mg/L	0.68	0.65%
QC value within limits for Ca 315.887 Recovery = 104.22%					
Ca 317.933†	184897.4	98.38	mg/L	0.513	0.52%
Cd 214.440†	0.2	0.00265	mg/L	0.001882	70.94%
Cd 226.502†	2.2	-0.00045	mg/L	0.007048	>999.9%
Cd 228.802†	-3.0	-0.00453	mg/L	0.001147	25.31%
Ce 413.380†	18.0	-0.00251	mg/L	0.014107	561.74%
Ce 413.764†	10.4	0.00077	mg/L	0.010092	>999.9%
Ce 418.660†	21.4	0.01143	mg/L	0.004347	38.05%
Co 228.616†	1.7	0.00279	mg/L	0.010620	380.67%
Co 230.786†	3.7	0.00252	mg/L	0.006017	239.18%
Co 238.892†	88.9	0.01047	mg/L	0.026331	251.54%
Cr 205.560†	0.7	0.00441	mg/L	0.001561	35.43%
Cr 267.716†	1.0	0.00454	mg/L	0.002094	46.11%
Cr 283.563†	185.3	-0.00444	mg/L	0.002408	54.25%
Cu 224.700†	2.4	-0.00465	mg/L	0.003719	80.00%
Cu 324.752†	-15.8	-0.00524	mg/L	0.000430	8.19%
Cu 327.393†	10.2	0.00022	mg/L	0.004618	>999.9%
Fe 238.204†	144267.5	94.89	mg/L	0.321	0.34%
Fe 239.562†	83156.8	94.92	mg/L	0.452	0.48%
Fe 259.939†	276223.0	95.19	mg/L	0.425	0.45%
Fe 273.955†	44648.0	104.4	mg/L	0.44	0.42%
QC value within limits for Fe 273.955 Recovery = 104.39%					
K 766.490†	128185.0	95.83	mg/L	0.332	0.35%
Li 610.362†	333.7	0.02718	mg/L	0.088919	327.10%
Li 670.784†	552.8	0.01645	mg/L	0.002045	12.43%
Mg 279.077†	18761.4	59.91	mg/L	0.351	0.59%
QC value within limits for Mg 279.077 Recovery = 99.85%					
Mg 280.271†	2623720.3	55.38	mg/L	0.918	1.66%
Mg 285.213†	227469.2	56.82	mg/L	0.262	0.46%
Mn 257.610†	32.5	0.00000	mg/L	0.000843	>999.9%
Mn 259.372†	1264.5	-0.00282	mg/L	0.001339	47.51%
Mn 260.568†	50.4	0.00078	mg/L	0.000929	119.23%
Mo 202.031†	6.0	0.5429	mg/L	0.15854	29.20%
Mo 203.845†	4.5	0.1133	mg/L	0.03701	32.66%
Mo 204.597†	2.1	0.02494	mg/L	0.008355	33.50%
Na 588.995†	576688.5	99.02	mg/L	1.727	1.74%
Na 589.592†	378658.3	97.04	mg/L	1.689	1.74%
QC value within limits for Na 589.592 Recovery = 97.04%					
Ni 221.648†	1.7	0.02956	mg/L	0.024033	81.29%
Ni 231.604†	1.4	0.00332	mg/L	0.004893	147.37%
Ni 232.003†	0.2	0.00462	mg/L	0.023037	498.45%
Pb 217.000†	8.8	0.08389	mg/L	0.063382	75.56%
Pb 220.353†	0.3	0.1010	mg/L	0.02459	24.35%
Sb 206.836†	2.6	0.09602	mg/L	0.020595	21.45%
Sb 217.582†	-1.0	-0.08683	mg/L	0.054850	63.17%
Sb 231.146†	0.0	0.00121	mg/L	0.175097	>999.9%
Se 196.026†	-1.0	-0.1796	mg/L	0.46775	260.38%
Se 203.985†	-0.7	-0.2570	mg/L	0.31302	121.81%
Sn 189.927†	1.3	0.1444	mg/L	0.25781	178.57%
Sn 235.485†	1353.5	-0.9403	mg/L	0.57976	61.66%
Sn 283.998†	-53.3	-0.04650	mg/L	0.019754	42.48%
Sr 407.771†	562.7	-0.00059	mg/L	0.000131	22.27%
Sr 421.552†	293.3	-0.00053	mg/L	0.000039	7.33%
Sr 460.733†	24.0	0.00454	mg/L	0.022538	495.91%
Ti 334.940†	-30.0	0.00070	mg/L	0.000524	75.15%

Ti 336.121†	48.1	0.00029	mg/L	0.000785	270.74%
Ti 337.279†	12.3	0.00034	mg/L	0.000475	140.54%
Tl 190.801†	-1.7	-0.3500	mg/L	0.21284	60.82%
Tl 276.787†	228.2	1.060	mg/L	0.0300	2.83%
Tl 351.924†	-10.7	-0.07754	mg/L	0.037106	47.86%
V 290.880†	-72.1	-0.01749	mg/L	0.003957	22.62%
V 309.310†	1707.2	0.00231	mg/L	0.003920	169.61%
V 310.230†	34.0	0.00271	mg/L	0.002144	79.12%
Zn 202.548†	3.6	0.00997	mg/L	0.003770	37.80%
Zn 206.200†	2.3	0.01294	mg/L	0.003574	27.62%
Zn 213.857†	15.4	0.02436	mg/L	0.003595	14.76%

All analytes passed QC.

Sequence No.: 13 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 8/19/03 11:00:05 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:39 AM,**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	167511.9						3259.72	1.95%
Ag 328.068†	0.2	0.00003	mg/L	0.000869				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-2.1	-0.00075	mg/L	0.002377				317.10%
Al 308.215†	9.9	0.01580	mg/L	0.012037				76.17%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	20.8	0.02502	mg/L	0.005311				21.22%
Al 396.153†	40.9	0.02207	mg/L	0.007901				35.80%
As 188.979†	-0.1	-0.01036	mg/L	0.188610				>999.9%
As 193.696†	-0.4	-0.07151	mg/L	0.129748				181.44%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	0.5	0.08386	mg/L	0.282134				336.44%
B 208.889†	-0.9	-0.01546	mg/L	0.060401				390.62%
B 249.677†	1.4	0.00335	mg/L	0.006893				205.67%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	2.9	0.00298	mg/L	0.004175				139.94%
Ba 233.527†	-3.2	-0.00171	mg/L	0.000974				56.85%
Ba 455.403†	15.0	0.00014	mg/L	0.000184				135.36%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	109.0	0.00098	mg/L	0.000327				33.42%
Be 234.861†	-0.8	-0.00007	mg/L	0.000245				374.54%
Be 313.042†	-4.1	-0.00006	mg/L	0.000073				117.57%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	3.5	0.00010	mg/L	0.000082				81.57%
Ca 315.887†	47.9	0.02609	mg/L	0.010221				39.17%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	45.7	0.02434	mg/L	0.004427				18.19%
Cd 214.440†	2.6	0.00313	mg/L	0.001998				63.93%
Cd 226.502†	2.1	0.00403	mg/L	0.002492				61.81%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	0.5	0.00150	mg/L	0.000437				29.16%
Ce 413.380†	-3.4	-0.00312	mg/L	0.006668				213.61%
Ce 413.764†	4.3	0.00361	mg/L	0.016229				449.02%
Ce 418.660†	3.4	0.00218	mg/L	0.004081				187.29%
Co 228.616†	2.3	0.00417	mg/L	0.005733				137.37%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-4.5	-0.00756	mg/L	0.007130				94.36%
Co 238.892†	1.0	0.00201	mg/L	0.003824				189.77%
Cr 205.560†	-0.7	-0.00553	mg/L	0.010249				185.47%
Cr 267.716†	2.5	0.00310	mg/L	0.003096				99.78%
Cr 283.563†	-5.0	-0.00118	mg/L	0.000742				62.92%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-0.7	-0.00281	mg/L	0.008661				308.65%
Cu 324.752†	-8.4	-0.00144	mg/L	0.001995				138.57%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	3.7	0.00140	mg/L	0.000626				44.69%
Fe 238.204†	47.9	0.03145	mg/L	0.004419				14.05%

Fe 239.562†	22.1	0.02520	mg/L	0.007626	30.26%
Fe 259.939†	85.1	0.02927	mg/L	0.007294	24.92%
QC value within limits for Fe 259.939 Recovery = Not calculated					
Fe 273.955†	12.8	0.02995	mg/L	0.017499	58.43%
K 766.490†	113.3	0.08470	mg/L	0.024558	28.99%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	-249.6	-0.04658	mg/L	0.136459	292.94%
Li 670.784†	-168.3	-0.00461	mg/L	0.001262	27.34%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	3.4	0.01098	mg/L	0.007143	65.04%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	879.9	0.01858	mg/L	0.003267	17.58%
Mg 285.213†	79.5	0.01988	mg/L	0.003328	16.74%
Mn 257.610†	2.4	0.00020	mg/L	0.000465	229.64%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	2.3	0.00014	mg/L	0.000120	82.66%
Mn 260.568†	8.0	0.00110	mg/L	0.000263	23.94%
Mo 202.031†	0.1	0.01615	mg/L	0.058971	365.08%
Mo 203.845†	4.0	0.1340	mg/L	0.03684	27.50%
Mo 204.597†	0.3	0.00575	mg/L	0.024268	422.33%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	1030.8	0.1770	mg/L	0.06755	38.16%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated					
Na 589.592†	536.4	0.1375	mg/L	0.00555	4.04%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.4	0.00522	mg/L	0.017979	344.68%
Ni 231.604†	2.4	0.00826	mg/L	0.003741	45.27%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-2.3	-0.01290	mg/L	0.009822	76.14%
Pb 217.000†	-0.7	-0.03576	mg/L	0.048294	135.06%
Pb 220.353†	-2.1	-0.04872	mg/L	0.045292	92.96%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.1	-0.00329	mg/L	0.069765	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	0.1	0.00493	mg/L	0.099056	>999.9%
Sb 231.146†	-0.7	-0.03202	mg/L	0.038892	121.48%
Se 196.026†	-2.6	-0.3728	mg/L	0.13366	35.85%
QC value less than the lower limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-1.3	-0.1723	mg/L	0.22401	129.99%
Sn 189.927†	0.8	0.09254	mg/L	0.132332	143.00%
Sn 235.485†	0.2	-0.00523	mg/L	0.040690	778.25%
QC value within limits for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	0.5	0.00382	mg/L	0.014799	387.08%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-21.2	-0.00007	mg/L	0.000071	105.21%
Sr 421.552†	15.4	0.00011	mg/L	0.000092	84.25%
Sr 460.733†	-15.8	-0.00779	mg/L	0.036102	463.42%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-0.2	-0.00001	mg/L	0.000301	>999.9%
Ti 336.121†	0.1	0.00000	mg/L	0.000520	>999.9%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	1.4	0.00019	mg/L	0.000541	292.37%
Tl 190.801†	-0.8	-0.1597	mg/L	0.11383	71.27%
QC value less than the lower limit for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	0.5	0.00553	mg/L	0.034149	617.88%
Tl 351.924†	-8.1	-0.05271	mg/L	0.047874	90.82%
V 290.880†	-2.8	-0.00098	mg/L	0.001469	149.17%
V 309.310†	5.8	0.00088	mg/L	0.000779	88.77%
V 310.230†	6.6	0.00091	mg/L	0.003442	377.84%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-0.3	-0.00105	mg/L	0.002889	275.94%
Zn 206.200†	-0.5	-0.00166	mg/L	0.004910	295.17%
Zn 213.857†	0.0	0.00001	mg/L	0.001208	>999.9%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 14 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 8/19/03 11:03:53 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**

Dilution: Data Type: Reprocessed on 8/20/03 9:02:45 AM,

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	170924.6						1179.14	0.69%
Ag 328.068†	4.2	0.00086	mg/L	0.001354				156.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-4.3	-0.00153	mg/L	0.002943				192.18%
Al 308.215†	6.5	0.01031	mg/L	0.003946				38.29%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	4.8	0.00610	mg/L	0.003997				65.50%
Al 396.153†	5.4	0.00220	mg/L	0.004937				224.36%
As 188.979†	0.8	0.1198	mg/L	0.19874				165.96%
As 193.696†	-0.1	-0.01880	mg/L	0.053903				286.68%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-1.3	-0.2242	mg/L	0.31035				138.44%
B 208.889†	0.3	0.00573	mg/L	0.028278				493.50%
B 249.677†	1.9	0.00434	mg/L	0.005373				123.78%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	1.2	0.00117	mg/L	0.000807				68.67%
Ba 233.527†	0.4	0.00023	mg/L	0.000505				224.16%
Ba 455.403†	2.7	0.00003	mg/L	0.000079				302.95%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	52.8	0.00047	mg/L	0.000426				89.63%
Be 234.861†	0.4	0.00004	mg/L	0.000381				>999.9%
Be 313.042†	-0.4	-0.00001	mg/L	0.000044				765.94%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-2.9	-0.00008	mg/L	0.000136				164.18%
Ca 315.887†	18.0	0.00978	mg/L	0.001640				16.76%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	-3.5	-0.00185	mg/L	0.005571				300.51%
Cd 214.440†	0.6	0.00076	mg/L	0.001979				260.25%
Cd 226.502†	0.8	0.00157	mg/L	0.003767				239.61%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	1.7	0.00250	mg/L	0.000736				29.42%
Ce 413.380†	-5.8	-0.00530	mg/L	0.004735				89.41%
Ce 413.764†	-4.4	-0.00368	mg/L	0.003614				98.19%
Ce 418.660†	-2.6	-0.00168	mg/L	0.001343				79.77%
Co 228.616†	2.0	0.00372	mg/L	0.001976				53.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-2.1	-0.00353	mg/L	0.004686				132.79%
Co 238.892†	-1.4	-0.00278	mg/L	0.002170				77.94%
Cr 205.560†	1.2	0.00937	mg/L	0.005055				53.96%
Cr 267.716†	2.4	0.00289	mg/L	0.004687				162.00%
Cr 283.563†	-5.0	-0.00115	mg/L	0.000694				60.51%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-2.1	-0.00845	mg/L	0.008576				101.46%
Cu 324.752†	-10.2	-0.00171	mg/L	0.001383				80.79%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	8.1	0.00311	mg/L	0.003711				119.27%
Fe 238.204†	12.9	0.00848	mg/L	0.001145				13.50%
Fe 239.562†	8.1	0.00917	mg/L	0.002230				24.32%
Fe 259.939†	22.8	0.00784	mg/L	0.001792				22.87%
QC value within limits for Fe 259.939 Recovery = Not calculated								
Fe 273.955†	-1.3	-0.00303	mg/L	0.010701				353.46%
K 766.490†	72.8	0.05445	mg/L	0.041621				76.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	-1199.6	-0.2244	mg/L	0.05678				25.30%
Li 670.784†	-233.8	-0.00641	mg/L	0.001063				16.60%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-0.3	-0.00093	mg/L	0.009639				>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mg 280.271†	368.6	0.00779	mg/L	0.000336				4.31%
Mg 285.213†	34.1	0.00851	mg/L	0.001372				16.12%
Mn 257.610†	5.6	0.00048	mg/L	0.000440				92.41%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 259.372†	9.8	0.00080	mg/L	0.000298				37.06%
Mn 260.568†	5.8	0.00081	mg/L	0.000157				19.36%
Mo 202.031†	-1.0	-0.1189	mg/L	0.14459				121.57%

Mo 203.845†	2.1	0.07175	mg/L	0.063026	87.84%
Mo 204.597†	1.2	0.02081	mg/L	0.006214	29.86%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	898.1	0.1542	mg/L	0.00713	4.62%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated					
Na 589.592†	140.2	0.03594	mg/L	0.005660	15.75%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	1.4	0.01792	mg/L	0.011364	63.41%
Ni 231.604†	-0.1	-0.00026	mg/L	0.004147	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-2.1	-0.01286	mg/L	0.011062	86.02%
Pb 217.000†	1.5	0.06949	mg/L	0.051454	74.05%
Pb 220.353†	-1.0	-0.02215	mg/L	0.021621	97.61%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.8	-0.03555	mg/L	0.129128	363.23%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-0.3	-0.01925	mg/L	0.023347	121.30%
Sb 231.146†	1.1	0.05558	mg/L	0.097559	175.54%
Se 196.026†	-2.9	-0.4095	mg/L	0.20198	49.33%
QC value less than the lower limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-0.5	-0.07451	mg/L	0.085648	114.95%
Sn 189.927†	0.4	0.05024	mg/L	0.039963	79.54%
Sn 235.485†	1.7	0.04627	mg/L	0.043397	93.80%
QC value within limits for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	1.0	-0.00112	mg/L	0.008599	770.18%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-156.7	-0.00050	mg/L	0.000136	27.34%
Sr 421.552†	8.3	0.00006	mg/L	0.000057	96.12%
Sr 460.733†	-11.9	-0.00585	mg/L	0.006279	107.40%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	1.8	0.00009	mg/L	0.000183	209.13%
Ti 336.121†	-1.3	-0.00010	mg/L	0.001034	>999.9%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	5.2	0.00071	mg/L	0.000303	42.51%
Tl 190.801†	0.4	0.07128	mg/L	0.204758	287.27%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-8.3	-0.08845	mg/L	0.053670	60.68%
Tl 351.924†	-4.0	-0.02596	mg/L	0.014832	57.14%
V 290.880†	-7.5	-0.00264	mg/L	0.000473	17.94%
V 309.310†	-1.6	-0.00025	mg/L	0.001070	420.58%
V 310.230†	-24.1	-0.00329	mg/L	0.002461	74.85%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-1.2	-0.00423	mg/L	0.001887	44.58%
Zn 206.200†	1.2	0.00398	mg/L	0.004443	111.68%
Zn 213.857†	-1.2	-0.00246	mg/L	0.004748	192.99%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

==========

Sequence No.: 15 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 8/19/03 11:07:41 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:02:51 AM,**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	170216.8						2547.09	1.50%
Ag 328.068†	0.5	0.00010	mg/L	0.001009				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	1.0	0.00038	mg/L	0.001944				512.44%
Al 308.215†	-4.1	-0.00665	mg/L	0.011793				177.44%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-6.2	-0.00695	mg/L	0.003407				49.04%
Al 396.153†	0.1	-0.00064	mg/L	0.005822				906.72%
As 188.979†	0.3	0.04519	mg/L	0.139694				309.10%
As 193.696†	-0.5	-0.09804	mg/L	0.205774				209.89%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	-0.9	-0.1550	mg/L	0.19001				122.57%

B 208.889†	-2.0	-0.03419 mg/L	0.011059	32.34%
B 249.677†	-3.9	-0.00899 mg/L	0.004345	48.35%
QC value within limits for B 249.677 Recovery = Not calculated				
B 249.772†	2.5	0.00253 mg/L	0.001673	66.23%
Ba 233.527†	-0.1	-0.00003 mg/L	0.001714	>999.9%
Ba 455.403†	10.8	0.00010 mg/L	0.000169	164.51%
QC value within limits for Ba 455.403 Recovery = Not calculated				
Ba 493.408†	72.8	0.00066 mg/L	0.000293	44.54%
Be 234.861†	1.5	0.00013 mg/L	0.000298	235.36%
Be 313.042†	-4.4	-0.00007 mg/L	0.000088	131.73%
QC value within limits for Be 313.042 Recovery = Not calculated				
Be 313.107†	-4.6	-0.00013 mg/L	0.000028	20.85%
Ca 315.887†	4.3	0.00233 mg/L	0.004405	188.68%
QC value within limits for Ca 315.887 Recovery = Not calculated				
Ca 317.933†	-5.3	-0.00279 mg/L	0.004345	155.46%
Cd 214.440†	3.1	0.00368 mg/L	0.000424	11.50%
Cd 226.502†	1.6	0.00302 mg/L	0.002864	94.79%
QC value within limits for Cd 226.502 Recovery = Not calculated				
Cd 228.802†	-0.8	0.00009 mg/L	0.003309	>999.9%
Ce 413.380†	-7.0	-0.00642 mg/L	0.005090	79.25%
Ce 413.764†	3.4	0.00290 mg/L	0.003578	123.21%
Ce 418.660†	19.8	0.01273 mg/L	0.002343	18.40%
Co 228.616†	2.8	0.00511 mg/L	0.004111	80.41%
QC value within limits for Co 228.616 Recovery = Not calculated				
Co 230.786†	-2.0	-0.00339 mg/L	0.006087	179.80%
Co 238.892†	-0.8	-0.00155 mg/L	0.001297	83.58%
Cr 205.560†	-0.1	-0.00068 mg/L	0.002189	320.54%
Cr 267.716†	3.5	0.00427 mg/L	0.002886	67.56%
Cr 283.563†	-2.3	-0.00053 mg/L	0.000182	34.39%
QC value within limits for Cr 283.563 Recovery = Not calculated				
Cu 224.700†	-1.2	-0.00487 mg/L	0.008060	165.44%
Cu 324.752†	-11.9	-0.00204 mg/L	0.001189	58.27%
QC value within limits for Cu 324.752 Recovery = Not calculated				
Cu 327.393†	1.7	0.00063 mg/L	0.001845	294.85%
Fe 238.204†	7.2	0.00467 mg/L	0.002325	49.78%
Fe 239.562†	4.3	0.00485 mg/L	0.002313	47.70%
Fe 259.939†	13.6	0.00462 mg/L	0.003777	81.77%
QC value within limits for Fe 259.939 Recovery = Not calculated				
Fe 273.955†	2.3	0.00528 mg/L	0.003005	56.95%
K 766.490†	-36.0	-0.02690 mg/L	0.009424	35.04%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	-771.8	-0.1442 mg/L	0.10648	73.83%
Li 670.784†	-263.3	-0.00722 mg/L	0.000777	10.77%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	3.9	0.01232 mg/L	0.000747	6.06%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	247.1	0.00523 mg/L	0.000412	7.88%
Mg 285.213†	18.3	0.00457 mg/L	0.000858	18.78%
Mn 257.610†	0.3	0.00002 mg/L	0.000208	939.37%
QC value within limits for Mn 257.610 Recovery = Not calculated				
Mn 259.372†	6.1	0.00046 mg/L	0.000423	92.25%
Mn 260.568†	3.2	0.00044 mg/L	0.000265	60.19%
Mo 202.031†	1.0	0.1164 mg/L	0.04860	41.77%
Mo 203.845†	1.3	0.04491 mg/L	0.061488	136.91%
Mo 204.597†	1.1	0.01862 mg/L	0.014059	75.51%
QC value within limits for Mo 204.597 Recovery = Not calculated				
Na 588.995†	504.6	0.08664 mg/L	0.059616	68.81%
QC value within limits for Na 588.995 Recovery = Not calculated				
Na 589.592†	58.0	0.01486 mg/L	0.014621	98.37%
QC value within limits for Na 589.592 Recovery = Not calculated				
Ni 221.648†	-0.0	-0.00060 mg/L	0.012619	>999.9%
Ni 231.604†	0.2	0.00084 mg/L	0.005291	629.33%
QC value within limits for Ni 231.604 Recovery = Not calculated				
Ni 232.003†	-1.2	-0.00699 mg/L	0.025265	361.54%
Pb 217.000†	1.2	0.05588 mg/L	0.046275	82.81%
Pb 220.353†	-2.1	-0.04946 mg/L	0.045822	92.65%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	0.2	0.01073 mg/L	0.051372	478.98%
QC value within limits for Sb 206.836 Recovery = Not calculated				
Sb 217.582†	-0.1	-0.00639 mg/L	0.095876	>999.9%
Sb 231.146†	-0.4	-0.01743 mg/L	0.077036	442.02%

Se 196.026†	-2.8	-0.3963	mg/L	0.23630	59.63%
QC value less than the lower limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-1.6	-0.2140	mg/L	0.05273	24.63%
Sn 189.927†	1.2	0.1489	mg/L	0.00603	4.05%
Sn 235.485†	-1.0	-0.02843	mg/L	0.052922	186.15%
QC value within limits for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	-2.1	-0.00572	mg/L	0.011539	201.62%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-62.1	-0.00020	mg/L	0.000072	36.63%
Sr 421.552†	4.9	0.00004	mg/L	0.000096	269.74%
Sr 460.733†	-61.4	-0.03019	mg/L	0.008046	26.65%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-3.1	-0.00016	mg/L	0.000140	90.13%
Ti 336.121†	-2.7	-0.00019	mg/L	0.000771	397.12%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	5.3	0.00073	mg/L	0.001067	146.49%
Tl 190.801†	0.6	0.1197	mg/L	0.39514	330.18%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-6.4	-0.06802	mg/L	0.021554	31.69%
Tl 351.924†	-5.9	-0.03864	mg/L	0.033337	86.28%
V 290.880†	-8.0	-0.00281	mg/L	0.001753	62.34%
V 309.310†	3.5	0.00052	mg/L	0.001760	335.69%
V 310.230†	-3.6	-0.00048	mg/L	0.003996	824.26%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-0.3	-0.00096	mg/L	0.005538	575.64%
Zn 206.200†	0.7	0.00232	mg/L	0.005325	229.34%
Zn 213.857†	-0.2	-0.00052	mg/L	0.001463	281.23%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 16 **Autosampler Location: 19**
Sample ID: RLC **Date Collected: 8/19/03 11:15:24 AM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:02:57 AM,**

Mean Data: RLC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	168226.2						4996.14	2.97%
Ag 328.068†	41.1	0.00842	mg/L	0.001462	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	22.6	0.00832	mg/L	0.004113	0.000	mg/kg	0.0000	0.00%
Al 308.215†	306.1	0.4898	mg/L	0.01312	0.000	mg/kg	0.0000	0.00%
Al 394.401†	423.8	0.5054	mg/L	0.01992	0.000	mg/kg	0.0000	0.00%
Al 396.153†	952.0	0.5146	mg/L	0.01974	0.000	mg/kg	0.0000	0.00%
As 188.979†	2.3	0.3282	mg/L	0.12744	0.000	mg/kg	0.0000	0.00%
As 193.696†	1.6	0.3233	mg/L	0.17805	0.000	mg/kg	0.0000	0.00%
As 197.197†	2.1	0.3677	mg/L	0.21709	0.000	mg/kg	0.0000	0.00%
B 208.889†	5.8	0.1007	mg/L	0.03698	0.000	mg/kg	0.0000	0.00%
B 249.677†	46.0	0.1066	mg/L	0.00848	0.000	mg/kg	0.0000	0.00%
B 249.772†	101.2	0.1032	mg/L	0.00342	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	18.4	0.00986	mg/L	0.001386	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1251.4	0.01080	mg/L	0.000178	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	1204.3	0.01067	mg/L	0.000442	0.000	mg/kg	0.0000	0.00%
Be 234.861†	64.0	0.00516	mg/L	0.000317	0.000	mg/kg	0.0000	0.00%
Be 313.042†	319.1	0.00480	mg/L	0.000037	0.000	mg/kg	0.0000	0.00%
Be 313.107†	169.4	0.00482	mg/L	0.000089	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	1023.4	0.5568	mg/L	0.01311	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	989.9	0.5267	mg/L	0.01862	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	43.1	0.05179	mg/L	0.001568	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	25.7	0.04903	mg/L	0.003638	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	41.9	0.05138	mg/L	0.000965	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-1.4	-0.00140	mg/L	0.014228	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	7.8	0.00639	mg/L	0.014662	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	0.9	0.00042	mg/L	0.004002	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	53.2	0.09670	mg/L	0.005830	0.000	mg/kg	0.0000	0.00%
Co 230.786†	56.4	0.09484	mg/L	0.002428	0.000	mg/kg	0.0000	0.00%
Co 238.892†	45.8	0.09047	mg/L	0.002597	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	4.8	0.03789	mg/L	0.013990	0.000	mg/kg	0.0000	0.00%

Cr 267.716†	44.5	0.05431	mg/L	0.003603	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	205.8	0.04742	mg/L	0.001548	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	11.6	0.04370	mg/L	0.009756	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	289.1	0.04839	mg/L	0.000816	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	127.6	0.04819	mg/L	0.005584	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	776.0	0.5112	mg/L	0.01553	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	445.9	0.5098	mg/L	0.01373	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	1476.5	0.5096	mg/L	0.01572	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	234.0	0.5477	mg/L	0.00403	0.000	mg/kg	0.0000	0.00%
K 766.490†	548.0	0.4097	mg/L	0.02027	0.000	mg/kg	0.0000	0.00%
Li 610.362†	-209.9	-0.04140	mg/L	0.254951	0.00000	mg/kg	0.000000	0.00%
Li 670.784†	1537.8	0.04220	mg/L	0.000842	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	162.8	0.5200	mg/L	0.02419	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	23941.4	0.5052	mg/L	0.00214	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	2030.7	0.5071	mg/L	0.01291	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	64.0	0.00539	mg/L	0.000208	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	69.3	0.00514	mg/L	0.000731	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	40.6	0.00544	mg/L	0.000132	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.5	-0.05813	mg/L	0.110314	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	4.8	0.1622	mg/L	0.02340	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	6.6	0.1149	mg/L	0.00657	0.000	mg/kg	0.0000	0.00%
Na 588.995†	6519.9	1.120	mg/L	0.1220	0.000	mg/kg	0.0000	0.00%
Na 589.592†	4017.2	1.029	mg/L	0.0058	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	7.7	0.09716	mg/L	0.004658	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	27.5	0.09536	mg/L	0.007030	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	15.9	0.09017	mg/L	0.014262	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	21.8	1.036	mg/L	0.1033	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	42.5	0.9788	mg/L	0.01473	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	9.3	0.4215	mg/L	0.08720	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	8.8	0.4812	mg/L	0.00944	0.000	mg/kg	0.0000	0.00%
Sb 231.146†	9.0	0.4392	mg/L	0.10954	0.000	mg/kg	0.0000	0.00%
Se 196.026†	2.6	0.3713	mg/L	0.26279	0.000	mg/kg	0.0000	0.00%
Se 203.985†	2.4	0.3063	mg/L	0.10256	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	2.4	0.2869	mg/L	0.04319	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	8.6	0.03816	mg/L	0.019149	0.000	mg/kg	0.0000	0.00%
Sn 283.998†	19.4	0.04051	mg/L	0.013048	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	1673.5	0.00531	mg/L	0.000114	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	766.0	0.00543	mg/L	0.000148	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	-24.3	-0.01188	mg/L	0.019325	0.00000	mg/kg	0.000000	0.00%
Ti 334.940†	198.2	0.00999	mg/L	0.000362	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	144.1	0.01033	mg/L	0.000909	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	77.9	0.01070	mg/L	0.000885	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	4.1	0.8343	mg/L	0.06233	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	78.5	0.8232	mg/L	0.11646	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	140.9	0.9165	mg/L	0.04411	0.000	mg/kg	0.0000	0.00%
V 290.880†	130.9	0.04628	mg/L	0.003815	0.000	mg/kg	0.0000	0.00%
V 309.310†	319.3	0.04867	mg/L	0.000835	0.000	mg/kg	0.0000	0.00%
V 310.230†	373.5	0.05110	mg/L	0.008523	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	131.5	0.4882	mg/L	0.01220	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	150.0	0.4925	mg/L	0.00991	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	231.6	0.4898	mg/L	0.01634	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 17
Sample ID: b307012-BLK1
Analyst:
Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 21
Date Collected: 8/19/03 11:19:07 AM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:03:03 AM,

Mean Data: b307012-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165832.7						3993.14	2.41%
Ag 328.068†	-6.2	-0.00125	mg/L	0.002958	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-0.2	-0.00003	mg/L	0.004001	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	6.3	0.00988	mg/L	0.013144	0.00000	mg/kg	0.000000	0.00%
Al 394.401†	23.4	0.02850	mg/L	0.001825	0.000	mg/kg	0.0000	0.00%
Al 396.153†	45.1	0.02335	mg/L	0.002412	0.000	mg/kg	0.0000	0.00%
As 188.979†	-1.2	-0.1787	mg/L	0.05249	0.000	mg/kg	0.0000	0.00%
As 193.696†	0.0	0.00149	mg/L	0.095997	0.00000	mg/kg	0.000000	0.00%

As 197.197†	-1.0	-0.1763 mg/L	0.10534	0.000 mg/kg	0.0000	0.00%
B 208.889†	0.3	0.00441 mg/L	0.011891	0.00000 mg/kg	0.000000	0.00%
B 249.677†	-1.0	-0.00232 mg/L	0.003574	0.00000 mg/kg	0.000000	0.00%
B 249.772†	2.3	0.00233 mg/L	0.002032	0.000 mg/kg	0.0000	0.00%
Ba 233.527†	3.3	0.00177 mg/L	0.001205	0.000 mg/kg	0.0000	0.00%
Ba 455.403†	103.2	0.00090 mg/L	0.000406	0.000 mg/kg	0.0000	0.00%
Ba 493.408†	38.7	0.00035 mg/L	0.000225	0.000 mg/kg	0.0000	0.00%
Be 234.861†	1.9	0.00016 mg/L	0.000172	0.00000 mg/kg	0.000000	0.00%
Be 313.042†	-5.9	-0.00009 mg/L	0.000082	0.000 mg/kg	0.0000	0.00%
Be 313.107†	-0.1	0.00000 mg/L	0.000205	0.00000 mg/kg	0.000000	0.00%
Ca 315.887†	114.9	0.06251 mg/L	0.004811	0.000 mg/kg	0.0000	0.00%
Ca 317.933†	115.8	0.06159 mg/L	0.009203	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	1.0	0.00125 mg/L	0.001217	0.00000 mg/kg	0.000000	0.00%
Cd 226.502†	-0.7	-0.00135 mg/L	0.004937	0.00000 mg/kg	0.000000	0.00%
Cd 228.802†	0.9	0.00114 mg/L	0.001248	0.00000 mg/kg	0.000000	0.00%
Ce 413.380†	-9.5	-0.00865 mg/L	0.010964	0.000 mg/kg	0.0000	0.00%
Ce 413.764†	9.2	0.00781 mg/L	0.012650	0.00000 mg/kg	0.000000	0.00%
Ce 418.660†	6.7	0.00431 mg/L	0.016453	0.00000 mg/kg	0.000000	0.00%
Co 228.616†	2.0	0.00360 mg/L	0.005485	0.00000 mg/kg	0.000000	0.00%
Co 230.786†	-2.6	-0.00437 mg/L	0.001057	0.000 mg/kg	0.0000	0.00%
Co 238.892†	-3.6	-0.00722 mg/L	0.010216	0.00000 mg/kg	0.000000	0.00%
Cr 205.560†	0.6	0.00491 mg/L	0.010565	0.00000 mg/kg	0.000000	0.00%
Cr 267.716†	6.0	0.00736 mg/L	0.002366	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	6.7	0.00156 mg/L	0.000961	0.000 mg/kg	0.0000	0.00%
Cu 224.700†	-0.6	-0.00244 mg/L	0.006709	0.00000 mg/kg	0.000000	0.00%
Cu 324.752†	-15.5	-0.00261 mg/L	0.000722	0.000 mg/kg	0.0000	0.00%
Cu 327.393†	-0.6	-0.00021 mg/L	0.000055	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	21.1	0.01383 mg/L	0.002145	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	8.4	0.00958 mg/L	0.002412	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	24.8	0.00852 mg/L	0.004317	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	4.6	0.01072 mg/L	0.008551	0.000 mg/kg	0.0000	0.00%
K 766.490†	58.4	0.04369 mg/L	0.097412	0.00000 mg/kg	0.000000	0.00%
Li 610.362†	575.7	0.1077 mg/L	0.19219	0.00000 mg/kg	0.000000	0.00%
Li 670.784†	-270.7	-0.00742 mg/L	0.001445	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	8.4	0.02672 mg/L	0.012518	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	840.3	0.01775 mg/L	0.001505	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	77.3	0.01932 mg/L	0.001739	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	5.7	0.00048 mg/L	0.000164	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	9.0	0.00065 mg/L	0.000486	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	7.0	0.00096 mg/L	0.000374	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	-0.5	-0.05366 mg/L	0.173629	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	2.0	0.06570 mg/L	0.069708	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	1.9	0.03247 mg/L	0.013593	0.000 mg/kg	0.0000	0.00%
Na 588.995†	-42.0	-0.00721 mg/L	0.082679	0.00000 mg/kg	0.000000	0.00%
Na 589.592†	103.9	0.02663 mg/L	0.007866	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	-0.5	-0.00617 mg/L	0.011247	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	3.1	0.01065 mg/L	0.008214	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	-5.1	-0.03018 mg/L	0.015316	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	-0.1	-0.00693 mg/L	0.025969	0.00000 mg/kg	0.000000	0.00%
Pb 220.353†	-2.7	-0.06197 mg/L	0.022823	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	-1.7	-0.07518 mg/L	0.067739	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	0.7	0.04005 mg/L	0.059643	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	-1.6	-0.07854 mg/L	0.092212	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	-2.4	-0.3439 mg/L	0.22677	0.000 mg/kg	0.0000	0.00%
Se 203.985†	-1.9	-0.2638 mg/L	0.29846	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	0.3	0.04103 mg/L	0.198251	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	0.8	0.01799 mg/L	0.019868	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	3.1	0.00676 mg/L	0.008271	0.00000 mg/kg	0.000000	0.00%
Sr 407.771†	-32.0	-0.00010 mg/L	0.000165	0.00000 mg/kg	0.000000	0.00%
Sr 421.552†	3.4	0.00002 mg/L	0.000045	0.00000 mg/kg	0.000000	0.00%
Sr 460.733†	-26.7	-0.01310 mg/L	0.036857	0.00000 mg/kg	0.000000	0.00%
Ti 334.940†	17.5	0.00088 mg/L	0.000373	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	10.1	0.00072 mg/L	0.000248	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	15.5	0.00213 mg/L	0.000884	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	0.1	0.02457 mg/L	0.270355	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	-9.6	-0.1027 mg/L	0.05146	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	-11.8	-0.07701 mg/L	0.026001	0.000 mg/kg	0.0000	0.00%
V 290.880†	-2.4	-0.00086 mg/L	0.001906	0.00000 mg/kg	0.000000	0.00%
V 309.310†	3.8	0.00051 mg/L	0.000850	0.00000 mg/kg	0.000000	0.00%
V 310.230†	-12.7	-0.00174 mg/L	0.006372	0.00000 mg/kg	0.000000	0.00%
Zn 202.548†	3.4	0.01280 mg/L	0.002433	0.000 mg/kg	0.0000	0.00%

Zn 206.200†	4.9	0.01599 mg/L	0.004998	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	7.9	0.01661 mg/L	0.003705	0.000 mg/kg	0.0000	0.00%

Sequence No.: 18 **Autosampler Location: 23**
Sample ID: 0305007-10 **Date Collected: 8/19/03 11:22:52 AM**
Analyst:
Sample Wt: 0.4849 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:03:09 AM,**

Mean Data: 0305007-10

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	164979.6						550.30	0.33%
Ag 328.068†	2.4	0.00332	mg/L	0.001292	0.6845	mg/kg	0.26640	38.92%
Ag 338.289†	-49.0	0.00092	mg/L	0.004442	0.1899	mg/kg	0.91607	482.29%
Al 308.215†	8102.3	13.02	mg/L	0.026	2685	mg/kg	5.4	0.20%
Al 394.401†	11004.9	13.18	mg/L	0.067	2718	mg/kg	13.7	0.50%
Al 396.153†	24873.7	13.54	mg/L	0.055	2792	mg/kg	11.3	0.40%
As 188.979†	3.2	0.3892	mg/L	0.22281	80.27	mg/kg	45.949	57.24%
As 193.696†	1.2	0.2794	mg/L	0.14882	57.62	mg/kg	30.690	53.26%
As 197.197†	-3.5	-0.3253	mg/L	0.47040	-67.08	mg/kg	97.010	144.61%
B 208.889†	4.2	0.04409	mg/L	0.015114	9.092	mg/kg	3.1170	34.28%
B 249.677†	13.8	0.03975	mg/L	0.007672	8.197	mg/kg	1.5822	19.30%
B 249.772†	186.5	0.03483	mg/L	0.006495	7.183	mg/kg	1.3394	18.65%
Ba 233.527†	446.0	0.2135	mg/L	0.00138	44.04	mg/kg	0.285	0.65%
Ba 455.403†	27409.0	0.2371	mg/L	0.00037	48.89	mg/kg	0.077	0.16%
Ba 493.408†	26772.0	0.2358	mg/L	0.00043	48.63	mg/kg	0.089	0.18%
Be 234.861†	280.0	0.00044	mg/L	0.001679	0.09001	mg/kg	0.346329	384.78%
Be 313.042†	123.0	0.00164	mg/L	0.000082	0.3377	mg/kg	0.01681	4.98%
Be 313.107†	63.0	0.00178	mg/L	0.000251	0.3675	mg/kg	0.05171	14.07%
Ca 315.887†	212416.9	115.6	mg/L	0.14	23840	mg/kg	28.0	0.12%
Ca 317.933†	204598.0	108.9	mg/L	0.24	22450	mg/kg	49.5	0.22%
Cd 214.440†	36.8	0.04092	mg/L	0.001235	8.439	mg/kg	0.2548	3.02%
Cd 226.502†	27.7	0.03525	mg/L	0.003804	7.270	mg/kg	0.7846	10.79%
Cd 228.802†	28.7	0.03928	mg/L	0.004287	8.102	mg/kg	0.8841	10.91%
Ce 413.380†	80.6	0.01729	mg/L	0.007997	3.566	mg/kg	1.6492	46.25%
Ce 413.764†	98.1	0.06704	mg/L	0.012739	13.82	mg/kg	2.627	19.00%
Ce 418.660†	105.2	0.05756	mg/L	0.042627	11.87	mg/kg	8.791	74.06%
Co 228.616†	14.9	0.02294	mg/L	0.003816	4.732	mg/kg	0.7870	16.63%
Co 230.786†	20.5	0.02467	mg/L	0.004195	5.088	mg/kg	0.8652	17.01%
Co 238.892†	276.8	0.07466	mg/L	0.010981	15.40	mg/kg	2.265	14.71%
Cr 205.560†	86.3	0.6860	mg/L	0.01331	141.5	mg/kg	2.75	1.94%
Cr 267.716†	563.2	0.6930	mg/L	0.00829	142.9	mg/kg	1.71	1.20%
Cr 283.563†	3544.3	0.6833	mg/L	0.00784	140.9	mg/kg	1.62	1.15%
Cu 224.700†	186.0	0.6885	mg/L	0.01264	142.0	mg/kg	2.61	1.84%
Cu 324.752†	4159.0	0.6948	mg/L	0.00862	143.3	mg/kg	1.78	1.24%
Cu 327.393†	1848.2	0.6969	mg/L	0.01045	143.7	mg/kg	2.16	1.50%
Fe 238.204†	405102.6	266.4	mg/L	4.01	54940	mg/kg	826.9	1.50%
Fe 239.562†	235242.7	268.5	mg/L	3.94	55370	mg/kg	813.4	1.47%
Fe 259.939†	778568.4	268.3	mg/L	3.90	55330	mg/kg	805.3	1.46%
Fe 273.955†	127865.2	298.9	mg/L	0.62	61650	mg/kg	127.1	0.21%
K 766.490†	1668.7	1.248	mg/L	0.0610	257.3	mg/kg	12.58	4.89%
Li 610.362†	155.2	-0.02852	mg/L	0.017576	-5.882	mg/kg	3.6246	61.62%
Li 670.784†	395.7	0.01249	mg/L	0.001455	2.575	mg/kg	0.3001	11.65%
Mg 279.077†	17114.8	54.58	mg/L	0.156	11260	mg/kg	32.1	0.29%
Mg 280.271†	2382059.0	50.26	mg/L	0.681	10370	mg/kg	140.4	1.35%
Mg 285.213†	207922.7	51.92	mg/L	0.066	10710	mg/kg	13.6	0.13%
Mn 257.610†	28145.1	2.395	mg/L	0.0099	494.0	mg/kg	2.05	0.42%
Mn 259.372†	29434.4	2.376	mg/L	0.0063	490.0	mg/kg	1.29	0.26%
Mn 260.568†	17561.0	2.390	mg/L	0.0157	492.8	mg/kg	3.25	0.66%
Mo 202.031†	7.6	0.7026	mg/L	0.17505	144.9	mg/kg	36.10	24.91%
Mo 203.845†	5.3	0.1394	mg/L	0.02032	28.76	mg/kg	4.190	14.57%
Mo 204.597†	2.2	0.03181	mg/L	0.050296	6.561	mg/kg	10.3725	158.10%
Na 588.995†	3669.8	0.6301	mg/L	0.02309	129.9	mg/kg	4.76	3.66%
Na 589.592†	2094.0	0.5366	mg/L	0.03050	110.7	mg/kg	6.29	5.68%
Ni 221.648†	20.6	0.2644	mg/L	0.01572	54.52	mg/kg	3.241	5.94%
Ni 231.604†	80.8	0.2763	mg/L	0.00787	56.99	mg/kg	1.624	2.85%
Ni 232.003†	51.8	0.2653	mg/L	0.00238	54.71	mg/kg	0.490	0.90%
Pb 217.000†	81.9	3.523	mg/L	0.1136	726.5	mg/kg	23.42	3.22%

Pb 220.353†	152.6	3.530	mg/L	0.1101	727.9	mg/kg	22.70	3.12%
Sb 206.836†	2.3	0.08552	mg/L	0.116588	17.64	mg/kg	24.044	136.32%
Sb 217.582†	0.2	-0.06358	mg/L	0.143651	-13.11	mg/kg	29.625	225.94%
Sb 231.146†	-1.7	-0.1104	mg/L	0.12049	-22.77	mg/kg	24.848	109.11%
Se 196.026†	-2.0	-0.3245	mg/L	0.09544	-66.92	mg/kg	19.683	29.41%
Se 203.985†	3.2	0.2269	mg/L	0.29349	46.78	mg/kg	60.527	129.38%
Sn 189.927†	7.1	0.8386	mg/L	0.02229	172.9	mg/kg	4.60	2.66%
Sn 235.485†	3864.5	-3.001	mg/L	0.9194	-618.8	mg/kg	189.62	30.64%
Sn 283.998†	157.3	0.4216	mg/L	0.02797	86.94	mg/kg	5.769	6.63%
Sr 407.771†	24087.6	0.07427	mg/L	0.000075	15.32	mg/kg	0.015	0.10%
Sr 421.552†	10892.5	0.07442	mg/L	0.000225	15.35	mg/kg	0.046	0.30%
Sr 460.733†	156.5	0.06814	mg/L	0.025627	14.05	mg/kg	5.285	37.61%
Ti 334.940†	11816.5	0.5990	mg/L	0.00403	123.5	mg/kg	0.83	0.67%
Ti 336.121†	8337.4	0.5977	mg/L	0.00112	123.3	mg/kg	0.23	0.19%
Ti 337.279†	4342.2	0.5952	mg/L	0.00165	122.7	mg/kg	0.34	0.28%
Tl 190.801†	0.3	0.02636	mg/L	0.112561	5.435	mg/kg	23.2133	427.09%
Tl 276.787†	234.5	1.112	mg/L	0.0907	229.4	mg/kg	18.71	8.16%
Tl 351.924†	-0.2	-0.01531	mg/L	0.043135	-3.157	mg/kg	8.8957	281.74%
V 290.880†	162.1	0.05405	mg/L	0.002435	11.15	mg/kg	0.502	4.51%
V 309.310†	1598.7	0.07482	mg/L	0.006486	15.43	mg/kg	1.338	8.67%
V 310.230†	515.2	0.06989	mg/L	0.005593	14.41	mg/kg	1.154	8.00%
Zn 202.548†	1566.9	5.806	mg/L	0.0439	1197	mg/kg	9.1	0.76%
Zn 206.200†	1770.5	5.818	mg/L	0.0607	1200	mg/kg	12.5	1.04%
Zn 213.857†	2853.7	6.017	mg/L	0.0389	1241	mg/kg	8.0	0.65%

Sequence No.: 19
Sample ID: 0305007-11
Analyst:
Sample Wt: 0.5838 g
Dilution: 1X

Autosampler Location: 25
Date Collected: 8/19/03 11:26:44 AM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:03:15 AM,

Mean Data: 0305007-11

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162893.8						4534.80	2.78%
Ag 328.068†	-2.6	0.00360	mg/L	0.001364	0.6169	mg/kg	0.23364	37.87%
Ag 338.289†	-33.9	-0.00035	mg/L	0.002528	-0.05989	mg/kg	0.432985	722.98%
Al 308.215†	6756.2	10.83	mg/L	0.348	1854	mg/kg	59.7	3.22%
Al 394.401†	9027.3	10.89	mg/L	0.410	1866	mg/kg	70.2	3.76%
Al 396.153†	20749.5	11.26	mg/L	0.382	1929	mg/kg	65.4	3.39%
As 188.979†	7.5	0.8382	mg/L	0.16492	143.6	mg/kg	28.25	19.68%
As 193.696†	0.6	0.2637	mg/L	0.45341	45.18	mg/kg	77.665	171.91%
As 197.197†	-10.3	-0.9547	mg/L	0.43065	-163.5	mg/kg	73.77	45.11%
B 208.889†	6.7	0.06805	mg/L	0.032443	11.66	mg/kg	5.557	47.68%
B 249.677†	17.9	0.04699	mg/L	0.004100	8.049	mg/kg	0.7023	8.73%
B 249.772†	150.5	0.04012	mg/L	0.003980	6.872	mg/kg	0.6818	9.92%
Ba 233.527†	277.3	0.1295	mg/L	0.00458	22.18	mg/kg	0.784	3.54%
Ba 455.403†	17036.0	0.1467	mg/L	0.00525	25.13	mg/kg	0.899	3.58%
Ba 493.408†	16573.9	0.1451	mg/L	0.00502	24.86	mg/kg	0.861	3.46%
Be 234.861†	225.0	0.00147	mg/L	0.000891	0.2524	mg/kg	0.15255	60.45%
Be 313.042†	104.5	0.00116	mg/L	0.000107	0.1987	mg/kg	0.01839	9.26%
Be 313.107†	46.2	0.00131	mg/L	0.000114	0.2241	mg/kg	0.01952	8.71%
Ca 315.887†	659023.1	358.6	mg/L	2.30	61430	mg/kg	394.8	0.64%
Ca 317.933†	633745.4	337.2	mg/L	2.35	57760	mg/kg	403.4	0.70%
Cd 214.440†	25.6	0.02616	mg/L	0.000753	4.481	mg/kg	0.1290	2.88%
Cd 226.502†	14.4	0.02248	mg/L	0.002601	3.850	mg/kg	0.4455	11.57%
Cd 228.802†	20.8	0.02883	mg/L	0.002318	4.938	mg/kg	0.3970	8.04%
Ce 413.380†	93.4	0.04564	mg/L	0.022474	7.817	mg/kg	3.8496	49.25%
Ce 413.764†	89.7	0.05938	mg/L	0.005920	10.17	mg/kg	1.014	9.97%
Ce 418.660†	104.6	0.06516	mg/L	0.006436	11.16	mg/kg	1.102	9.88%
Co 228.616†	10.6	0.01892	mg/L	0.001259	3.241	mg/kg	0.2156	6.65%
Co 230.786†	15.0	0.01648	mg/L	0.004507	2.823	mg/kg	0.7720	27.35%
Co 238.892†	194.7	0.03103	mg/L	0.005696	5.315	mg/kg	0.9757	18.36%
Cr 205.560†	42.1	0.3314	mg/L	0.00901	56.76	mg/kg	1.544	2.72%
Cr 267.716†	268.9	0.3315	mg/L	0.01269	56.79	mg/kg	2.173	3.83%
Cr 283.563†	1807.8	0.3172	mg/L	0.01203	54.33	mg/kg	2.060	3.79%
Cu 224.700†	111.2	0.3991	mg/L	0.01292	68.37	mg/kg	2.212	3.24%
Cu 324.752†	2404.1	0.3980	mg/L	0.01227	68.17	mg/kg	2.102	3.08%
Cu 327.393†	1088.9	0.4047	mg/L	0.01285	69.33	mg/kg	2.201	3.18%

Fe 238.204†	306154.7	201.4	mg/L	1.20	34490	mg/kg	204.7	0.59%
Fe 239.562†	177439.8	202.5	mg/L	1.51	34690	mg/kg	257.9	0.74%
Fe 259.939†	590597.8	203.5	mg/L	1.15	34860	mg/kg	197.6	0.57%
Fe 273.955†	95470.0	223.2	mg/L	7.55	38240	mg/kg	1293.3	3.38%
K 766.490†	1749.2	1.308	mg/L	0.0710	224.0	mg/kg	12.17	5.43%
Li 610.362†	288.2	-0.06179	mg/L	0.116845	-10.58	mg/kg	20.015	189.11%
Li 670.784†	433.7	0.01486	mg/L	0.001061	2.545	mg/kg	0.1818	7.14%
Mg 279.077†	36328.6	116.0	mg/L	4.04	19870	mg/kg	691.4	3.48%
Mg 280.271†	4867651.4	102.7	mg/L	3.48	17600	mg/kg	596.7	3.39%
Mg 285.213†	434648.8	108.6	mg/L	0.64	18600	mg/kg	109.1	0.59%
Mn 257.610†	23185.0	1.972	mg/L	0.0721	337.8	mg/kg	12.35	3.66%
Mn 259.372†	23947.6	1.954	mg/L	0.0741	334.7	mg/kg	12.69	3.79%
Mn 260.568†	14441.5	1.965	mg/L	0.0700	336.6	mg/kg	11.98	3.56%
Mo 202.031†	14.5	1.294	mg/L	0.1441	221.6	mg/kg	24.68	11.14%
Mo 203.845†	5.0	0.1674	mg/L	0.05231	28.67	mg/kg	8.961	31.25%
Mo 204.597†	5.3	0.09110	mg/L	0.029454	15.60	mg/kg	5.045	32.33%
Na 588.995†	4209.8	0.7229	mg/L	0.07561	123.8	mg/kg	12.95	10.46%
Na 589.592†	2332.5	0.5977	mg/L	0.03858	102.4	mg/kg	6.61	6.45%
Ni 221.648†	18.6	0.2566	mg/L	0.00754	43.96	mg/kg	1.292	2.94%
Ni 231.604†	73.0	0.2507	mg/L	0.00856	42.94	mg/kg	1.467	3.42%
Ni 232.003†	41.7	0.2368	mg/L	0.05000	40.57	mg/kg	8.565	21.11%
Pb 217.000†	57.8	2.404	mg/L	0.2348	411.7	mg/kg	40.22	9.77%
Pb 220.353†	104.6	2.297	mg/L	0.1388	393.5	mg/kg	23.77	6.04%
Sb 206.836†	5.5	0.2056	mg/L	0.05121	35.22	mg/kg	8.772	24.91%
Sb 217.582†	-3.3	-0.1063	mg/L	0.09939	-18.21	mg/kg	17.025	93.48%
Sb 231.146†	-1.2	-0.05626	mg/L	0.183257	-9.637	mg/kg	31.3904	325.71%
Se 196.026†	-3.2	-0.4770	mg/L	0.53415	-81.70	mg/kg	91.495	111.99%
Se 203.985†	1.6	0.09257	mg/L	0.229932	15.86	mg/kg	39.385	248.38%
Sn 189.927†	5.7	0.6249	mg/L	0.43794	107.0	mg/kg	75.02	70.08%
Sn 235.485†	2874.5	-2.521	mg/L	0.1447	-431.9	mg/kg	24.78	5.74%
Sn 283.998†	13.2	0.1357	mg/L	0.00113	23.24	mg/kg	0.194	0.84%
Sr 407.771†	30988.4	0.09065	mg/L	0.003697	15.53	mg/kg	0.633	4.08%
Sr 421.552†	14056.3	0.09145	mg/L	0.003338	15.66	mg/kg	0.572	3.65%
Sr 460.733†	159.3	0.05634	mg/L	0.054626	9.650	mg/kg	9.3569	96.96%
Ti 334.940†	10894.5	0.5593	mg/L	0.01858	95.81	mg/kg	3.183	3.32%
Ti 336.121†	7828.7	0.5553	mg/L	0.01940	95.12	mg/kg	3.323	3.49%
Ti 337.279†	4058.3	0.5555	mg/L	0.02469	95.16	mg/kg	4.229	4.44%
Tl 190.801†	-1.4	-0.1627	mg/L	0.42777	-27.88	mg/kg	73.274	262.85%
Tl 276.787†	484.2	2.462	mg/L	0.4169	421.8	mg/kg	71.41	16.93%
Tl 351.924†	-1.6	-0.02237	mg/L	0.023971	-3.831	mg/kg	4.1060	107.17%
V 290.880†	47.2	0.03315	mg/L	0.008032	5.678	mg/kg	1.3759	24.23%
V 309.310†	2965.3	0.08262	mg/L	0.003867	14.15	mg/kg	0.662	4.68%
V 310.230†	470.7	0.06256	mg/L	0.008805	10.72	mg/kg	1.508	14.07%
Zn 202.548†	868.6	3.214	mg/L	0.0977	550.5	mg/kg	16.74	3.04%
Zn 206.200†	985.9	3.244	mg/L	0.1125	555.7	mg/kg	19.28	3.47%
Zn 213.857†	1631.5	3.423	mg/L	0.1083	586.3	mg/kg	18.56	3.17%

Sequence No.: 20
Sample ID: 0305007-12
Analyst:
Sample Wt: 0.5255 g
Dilution: 1X

Autosampler Location: 27
Date Collected: 8/19/03 11:30:41 AM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:03:20 AM,

Mean Data: 0305007-12

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165194.4						1182.22	0.72%
Ag 328.068†	-2.9	0.00201	mg/L	0.000814	0.3827	mg/kg	0.15483	40.46%
Ag 338.289†	-21.2	-0.00005	mg/L	0.001689	-0.00984	mg/kg	0.321466	>999.9%
Al 308.215†	5737.6	9.212	mg/L	0.0688	1753	mg/kg	13.1	0.75%
Al 394.401†	7856.0	9.405	mg/L	0.0613	1790	mg/kg	11.7	0.65%
Al 396.153†	17707.1	9.635	mg/L	0.0266	1833	mg/kg	5.1	0.28%
As 188.979†	3.2	0.3970	mg/L	0.21353	75.55	mg/kg	40.633	53.78%
As 193.696†	0.8	0.1860	mg/L	0.50272	35.40	mg/kg	95.666	270.25%
As 197.197†	-4.3	-0.5227	mg/L	0.28449	-99.46	mg/kg	54.137	54.43%
B 208.889†	3.0	0.03434	mg/L	0.057577	6.535	mg/kg	10.9566	167.67%
B 249.677†	8.8	0.02345	mg/L	0.005686	4.463	mg/kg	1.0819	24.25%
B 249.772†	83.5	0.01852	mg/L	0.003159	3.524	mg/kg	0.6012	17.06%
Ba 233.527†	243.1	0.1192	mg/L	0.00015	22.68	mg/kg	0.029	0.13%

Ba 455.403†	14914.9	0.1289 mg/L	0.00050	24.53 mg/kg	0.096	0.39%
Ba 493.408†	14514.5	0.1280 mg/L	0.00041	24.36 mg/kg	0.078	0.32%
Be 234.861†	128.2	0.00071 mg/L	0.001417	0.1360 mg/kg	0.26964	198.30%
Be 313.042†	64.3	0.00078 mg/L	0.000121	0.1491 mg/kg	0.02298	15.41%
Be 313.107†	34.3	0.00097 mg/L	0.000098	0.1839 mg/kg	0.01867	10.15%
Ca 315.887†	183263.4	99.73 mg/L	0.326	18980 mg/kg	62.1	0.33%
Ca 317.933†	176390.1	93.85 mg/L	0.270	17860 mg/kg	51.3	0.29%
Cd 214.440†	22.3	0.02522 mg/L	0.000863	4.800 mg/kg	0.1643	3.42%
Cd 226.502†	16.2	0.02474 mg/L	0.006012	4.709 mg/kg	1.1440	24.30%
Cd 228.802†	18.3	0.02409 mg/L	0.005003	4.584 mg/kg	0.9521	20.77%
Ce 413.380†	72.5	0.04211 mg/L	0.004194	8.014 mg/kg	0.7982	9.96%
Ce 413.764†	85.1	0.06388 mg/L	0.002460	12.16 mg/kg	0.468	3.85%
Ce 418.660†	101.7	0.06182 mg/L	0.014186	11.76 mg/kg	2.699	22.95%
Co 228.616†	13.1	0.02213 mg/L	0.005035	4.211 mg/kg	0.9582	22.75%
Co 230.786†	14.4	0.01956 mg/L	0.004126	3.722 mg/kg	0.7852	21.10%
Co 238.892†	121.9	0.03606 mg/L	0.015608	6.862 mg/kg	2.9702	43.29%
Cr 205.560†	56.2	0.4455 mg/L	0.00804	84.78 mg/kg	1.530	1.80%
Cr 267.716†	373.3	0.4582 mg/L	0.00316	87.19 mg/kg	0.601	0.69%
Cr 283.563†	2192.6	0.4489 mg/L	0.00304	85.42 mg/kg	0.578	0.68%
Cu 224.700†	89.7	0.3332 mg/L	0.00995	63.41 mg/kg	1.893	2.99%
Cu 324.752†	2007.8	0.3358 mg/L	0.00110	63.90 mg/kg	0.210	0.33%
Cu 327.393†	896.2	0.3373 mg/L	0.00257	64.18 mg/kg	0.489	0.76%
Fe 238.204†	178480.1	117.4 mg/L	0.45	22340 mg/kg	85.4	0.38%
Fe 239.562†	102775.6	117.3 mg/L	0.38	22320 mg/kg	72.2	0.32%
Fe 259.939†	343810.0	118.5 mg/L	0.45	22550 mg/kg	86.5	0.38%
Fe 273.955†	55386.8	129.5 mg/L	0.49	24640 mg/kg	92.6	0.38%
K 766.490†	1277.8	0.9553 mg/L	0.05352	181.8 mg/kg	10.18	5.60%
Li 610.362†	176.3	-0.00642 mg/L	0.066161	-1.221 mg/kg	12.5902	>999.9%
Li 670.784†	262.4	0.00829 mg/L	0.001654	1.578 mg/kg	0.3148	19.96%
Mg 279.077†	16398.1	52.35 mg/L	0.342	9962 mg/kg	65.0	0.65%
Mg 280.271†	2313782.9	48.83 mg/L	0.203	9293 mg/kg	38.6	0.42%
Mg 285.213†	199697.7	49.88 mg/L	0.179	9493 mg/kg	34.0	0.36%
Mn 257.610†	10832.5	0.9210 mg/L	0.00255	175.3 mg/kg	0.49	0.28%
Mn 259.372†	11456.0	0.9091 mg/L	0.01395	173.0 mg/kg	2.65	1.53%
Mn 260.568†	6748.5	0.9171 mg/L	0.00679	174.5 mg/kg	1.29	0.74%
Mo 202.031†	4.8	0.4072 mg/L	0.20638	77.48 mg/kg	39.272	50.69%
Mo 203.845†	5.7	0.1775 mg/L	0.04450	33.77 mg/kg	8.467	25.07%
Mo 204.597†	2.5	0.04163 mg/L	0.006848	7.922 mg/kg	1.3031	16.45%
Na 588.995†	2761.7	0.4742 mg/L	0.01979	90.24 mg/kg	3.766	4.17%
Na 589.592†	1669.7	0.4279 mg/L	0.02077	81.42 mg/kg	3.953	4.85%
Ni 221.648†	9.9	0.1305 mg/L	0.01859	24.83 mg/kg	3.538	14.25%
Ni 231.604†	43.7	0.1496 mg/L	0.01290	28.46 mg/kg	2.455	8.62%
Ni 232.003†	23.6	0.1164 mg/L	0.00993	22.16 mg/kg	1.889	8.53%
Pb 217.000†	30.9	1.286 mg/L	0.0548	244.8 mg/kg	10.43	4.26%
Pb 220.353†	60.3	1.377 mg/L	0.0891	262.1 mg/kg	16.95	6.47%
Sb 206.836†	2.3	0.08553 mg/L	0.045785	16.28 mg/kg	8.713	53.53%
Sb 217.582†	-2.0	-0.1200 mg/L	0.05412	-22.84 mg/kg	10.300	45.10%
Sb 231.146†	-1.4	-0.08185 mg/L	0.028716	-15.58 mg/kg	5.464	35.08%
Se 196.026†	-3.8	-0.5643 mg/L	0.23133	-107.4 mg/kg	44.02	40.99%
Se 203.985†	1.5	0.08835 mg/L	0.138200	16.81 mg/kg	26.299	156.42%
Sn 189.927†	5.2	0.6125 mg/L	0.17086	116.6 mg/kg	32.51	27.90%
Sn 235.485†	1655.6	-1.775 mg/L	0.3432	-337.8 mg/kg	65.30	19.33%
Sn 283.998†	75.5	0.1587 mg/L	0.01584	30.20 mg/kg	3.014	9.98%
Sr 407.771†	15444.1	0.04695 mg/L	0.000182	8.934 mg/kg	0.0346	0.39%
Sr 421.552†	6971.3	0.04707 mg/L	0.000260	8.958 mg/kg	0.0494	0.55%
Sr 460.733†	114.7	0.04954 mg/L	0.034353	9.428 mg/kg	6.5372	69.34%
Ti 334.940†	11830.8	0.5993 mg/L	0.00108	114.0 mg/kg	0.21	0.18%
Ti 336.121†	8326.9	0.5974 mg/L	0.00414	113.7 mg/kg	0.79	0.69%
Ti 337.279†	4351.0	0.5969 mg/L	0.00190	113.6 mg/kg	0.36	0.32%
Tl 190.801†	0.3	0.05806 mg/L	0.182160	11.05 mg/kg	34.664	313.76%
Tl 276.787†	185.8	0.7450 mg/L	0.34519	141.8 mg/kg	65.69	46.33%
Tl 351.924†	-14.7	-0.1038 mg/L	0.05204	-19.76 mg/kg	9.903	50.12%
V 290.880†	85.4	0.03597 mg/L	0.000728	6.844 mg/kg	0.1386	2.02%
V 309.310†	1508.3	0.06202 mg/L	0.000521	11.80 mg/kg	0.099	0.84%
V 310.230†	400.6	0.05407 mg/L	0.001513	10.29 mg/kg	0.288	2.80%
Zn 202.548†	650.6	2.409 mg/L	0.0179	458.4 mg/kg	3.41	0.74%
Zn 206.200†	733.8	2.412 mg/L	0.0167	459.0 mg/kg	3.18	0.69%
Zn 213.857†	1170.9	2.466 mg/L	0.0049	469.2 mg/kg	0.93	0.20%

Sample ID: 0305007-13
Analyst:
Sample Wt: 0.5149 g
Dilution: 1X

Date Collected: 8/19/03 11:34:36 AM
Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:03:27 AM,

Mean Data: 0305007-13

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	166486.8						1446.14	0.87%
Ag 328.068†	53.8	0.01411	mg/L	0.000879	2.739	mg/kg	0.1708	6.23%
Ag 338.289†	-58.6	0.00981	mg/L	0.001424	1.906	mg/kg	0.2765	14.51%
Al 308.215†	12799.7	20.58	mg/L	0.150	3996	mg/kg	29.2	0.73%
Al 394.401†	17593.3	21.04	mg/L	0.106	4087	mg/kg	20.7	0.51%
Al 396.153†	39329.0	21.42	mg/L	0.105	4161	mg/kg	20.5	0.49%
As 188.979†	3.5	0.4628	mg/L	0.15703	89.88	mg/kg	30.497	33.93%
As 193.696†	2.0	0.4215	mg/L	0.44098	81.86	mg/kg	85.644	104.62%
As 197.197†	-2.2	-0.1616	mg/L	0.28102	-31.39	mg/kg	54.578	173.88%
B 208.889†	5.0	0.05248	mg/L	0.041036	10.19	mg/kg	7.970	78.19%
B 249.677†	21.5	0.06279	mg/L	0.004326	12.20	mg/kg	0.840	6.89%
B 249.772†	287.8	0.04015	mg/L	0.006184	7.798	mg/kg	1.2009	15.40%
Ba 233.527†	1013.6	0.5020	mg/L	0.00116	97.49	mg/kg	0.226	0.23%
Ba 455.403†	62940.2	0.5448	mg/L	0.00197	105.8	mg/kg	0.38	0.36%
Ba 493.408†	62408.0	0.5517	mg/L	0.00475	107.1	mg/kg	0.92	0.86%
Be 234.861†	465.2	0.00168	mg/L	0.000955	0.3255	mg/kg	0.18545	56.98%
Be 313.042†	181.2	0.00251	mg/L	0.000063	0.4882	mg/kg	0.01226	2.51%
Be 313.107†	90.8	0.00258	mg/L	0.000110	0.5010	mg/kg	0.02129	4.25%
Ca 315.887†	147192.3	80.11	mg/L	0.646	15560	mg/kg	125.5	0.81%
Ca 317.933†	142320.7	75.73	mg/L	0.650	14710	mg/kg	126.3	0.86%
Cd 214.440†	49.1	0.05438	mg/L	0.001764	10.56	mg/kg	0.343	3.24%
Cd 226.502†	45.9	0.05591	mg/L	0.006362	10.86	mg/kg	1.236	11.38%
Cd 228.802†	36.6	0.05065	mg/L	0.007435	9.837	mg/kg	1.4439	14.68%
Ce 413.380†	142.1	0.03732	mg/L	0.031434	7.248	mg/kg	6.1050	84.23%
Ce 413.764†	105.8	0.06567	mg/L	0.001381	12.75	mg/kg	0.268	2.10%
Ce 418.660†	115.6	0.05552	mg/L	0.037441	10.78	mg/kg	7.271	67.43%
Co 228.616†	22.5	0.03304	mg/L	0.006420	6.417	mg/kg	1.2468	19.43%
Co 230.786†	26.3	0.02842	mg/L	0.002850	5.519	mg/kg	0.5536	10.03%
Co 238.892†	438.3	0.09994	mg/L	0.026326	19.41	mg/kg	5.113	26.34%
Cr 205.560†	290.2	2.306	mg/L	0.0078	447.8	mg/kg	1.52	0.34%
Cr 267.716†	1883.5	2.308	mg/L	0.0119	448.2	mg/kg	2.31	0.52%
Cr 283.563†	10769.2	2.270	mg/L	0.0138	440.9	mg/kg	2.68	0.61%
Cu 224.700†	485.5	1.846	mg/L	0.0129	358.5	mg/kg	2.51	0.70%
Cu 324.752†	11209.7	1.881	mg/L	0.0078	365.3	mg/kg	1.51	0.41%
Cu 327.393†	4929.5	1.868	mg/L	0.0026	362.9	mg/kg	0.50	0.14%
Fe 238.204†	644362.3	423.8	mg/L	3.12	82300	mg/kg	605.5	0.74%
Fe 239.562†	377075.0	430.4	mg/L	3.19	83590	mg/kg	619.5	0.74%
Fe 259.939†	1243348.7	428.4	mg/L	3.34	83210	mg/kg	649.3	0.78%
Fe 273.955†	207436.1	485.0	mg/L	4.40	94190	mg/kg	853.6	0.91%
K 766.490†	1907.1	1.426	mg/L	0.0488	276.9	mg/kg	9.49	3.43%
Li 610.362†	60.2	-0.05630	mg/L	0.071442	-10.93	mg/kg	13.875	126.91%
Li 670.784†	364.7	0.01199	mg/L	0.003042	2.328	mg/kg	0.5907	25.37%
Mg 279.077†	9339.3	29.68	mg/L	0.220	5765	mg/kg	42.7	0.74%
Mg 280.271†	1345433.3	28.36	mg/L	0.233	5508	mg/kg	45.2	0.82%
Mg 285.213†	116547.0	29.08	mg/L	0.219	5648	mg/kg	42.5	0.75%
Mn 257.610†	42821.9	3.645	mg/L	0.0149	707.8	mg/kg	2.89	0.41%
Mn 259.372†	45133.7	3.614	mg/L	0.0049	701.9	mg/kg	0.96	0.14%
Mn 260.568†	26739.0	3.638	mg/L	0.0076	706.6	mg/kg	1.47	0.21%
Mo 202.031†	4.5	0.3842	mg/L	0.08480	74.62	mg/kg	16.470	22.07%
Mo 203.845†	10.3	0.2725	mg/L	0.06045	52.93	mg/kg	11.741	22.18%
Mo 204.597†	6.8	0.1063	mg/L	0.04712	20.65	mg/kg	9.150	44.32%
Na 588.995†	3896.9	0.6691	mg/L	0.04950	130.0	mg/kg	9.61	7.40%
Na 589.592†	2266.9	0.5809	mg/L	0.00877	112.8	mg/kg	1.70	1.51%
Ni 221.648†	38.7	0.4898	mg/L	0.01533	95.12	mg/kg	2.977	3.13%
Ni 231.604†	148.1	0.5073	mg/L	0.00566	98.52	mg/kg	1.099	1.12%
Ni 232.003†	110.5	0.5194	mg/L	0.02852	100.9	mg/kg	5.54	5.49%
Pb 217.000†	114.1	4.857	mg/L	0.1158	943.2	mg/kg	22.50	2.39%
Pb 220.353†	213.0	4.990	mg/L	0.1388	969.0	mg/kg	26.95	2.78%
Sb 206.836†	1.4	0.03191	mg/L	0.062190	6.196	mg/kg	12.0781	194.92%
Sb 217.582†	2.7	-0.01705	mg/L	0.074112	-3.310	mg/kg	14.3934	434.80%
Sb 231.146†	2.1	0.05627	mg/L	0.072150	10.93	mg/kg	14.012	128.23%
Se 196.026†	-1.4	-0.2696	mg/L	0.10092	-52.37	mg/kg	19.600	37.43%

Se 203.985†	4.2	0.06633	mg/L	0.158961	12.88	mg/kg	30.872	239.65%
Sn 189.927†	21.7	2.632	mg/L	0.2250	511.2	mg/kg	43.70	8.55%
Sn 235.485†	6261.4	-5.073	mg/L	2.7234	-985.2	mg/kg	528.92	53.69%
Sn 283.998†	667.9	1.328	mg/L	0.0100	257.9	mg/kg	1.94	0.75%
Sr 407.771†	28047.3	0.08784	mg/L	0.000259	17.06	mg/kg	0.050	0.29%
Sr 421.552†	12743.5	0.08816	mg/L	0.000438	17.12	mg/kg	0.085	0.50%
Sr 460.733†	159.7	0.07080	mg/L	0.033644	13.75	mg/kg	6.534	47.52%
Ti 334.940†	14921.2	0.7542	mg/L	0.00392	146.5	mg/kg	0.76	0.52%
Ti 336.121†	10490.2	0.7536	mg/L	0.00506	146.4	mg/kg	0.98	0.67%
Ti 337.279†	5504.5	0.7545	mg/L	0.00264	146.5	mg/kg	0.51	0.35%
Tl 190.801†	-1.3	-0.3425	mg/L	0.28571	-66.51	mg/kg	55.489	83.43%
Tl 276.787†	135.5	0.5036	mg/L	0.30794	97.81	mg/kg	59.805	61.14%
Tl 351.924†	-3.1	-0.04169	mg/L	0.039069	-8.097	mg/kg	7.5877	93.71%
V 290.880†	398.1	0.1205	mg/L	0.00402	23.41	mg/kg	0.781	3.33%
V 309.310†	1450.0	0.1399	mg/L	0.00395	27.17	mg/kg	0.767	2.82%
V 310.230†	963.2	0.1317	mg/L	0.00237	25.57	mg/kg	0.461	1.80%
Zn 202.548†	3506.0	13.00	mg/L	0.085	2524	mg/kg	16.5	0.65%
Zn 206.200†	3992.9	13.12	mg/L	0.098	2547	mg/kg	19.1	0.75%
Zn 213.857†	6277.1	13.26	mg/L	0.069	2574	mg/kg	13.3	0.52%

Sequence No.: 22
Sample ID: 0305007-14
Analyst:
Sample Wt: 0.5343 g
Dilution: 1X

Autosampler Location: 31
Date Collected: 8/19/03 11:38:26 AM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:03:33 AM,

Mean Data: 0305007-14

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162172.7						537.58	0.33%
Ag 328.068†	15.7	0.00611	mg/L	0.000819	1.144	mg/kg	0.1533	13.39%
Ag 338.289†	-25.7	0.00443	mg/L	0.002957	0.8294	mg/kg	0.55336	66.72%
Al 308.215†	6681.3	10.73	mg/L	0.072	2008	mg/kg	13.5	0.67%
Al 394.401†	9176.7	11.00	mg/L	0.104	2059	mg/kg	19.4	0.94%
Al 396.153†	20820.3	11.33	mg/L	0.058	2120	mg/kg	10.9	0.51%
As 188.979†	4.4	0.5533	mg/L	0.33708	103.6	mg/kg	63.09	60.93%
As 193.696†	0.9	0.2261	mg/L	0.32837	42.31	mg/kg	61.459	145.25%
As 197.197†	-3.8	-0.3568	mg/L	0.11759	-66.77	mg/kg	22.009	32.96%
B 208.889†	6.4	0.08391	mg/L	0.024855	15.71	mg/kg	4.652	29.62%
B 249.677†	14.9	0.04041	mg/L	0.003875	7.564	mg/kg	0.7252	9.59%
B 249.772†	153.2	0.03950	mg/L	0.002924	7.393	mg/kg	0.5473	7.40%
Ba 233.527†	315.9	0.1500	mg/L	0.00150	28.07	mg/kg	0.281	1.00%
Ba 455.403†	19608.3	0.1695	mg/L	0.00098	31.72	mg/kg	0.184	0.58%
Ba 493.408†	19145.3	0.1685	mg/L	0.00149	31.53	mg/kg	0.280	0.89%
Be 234.861†	217.1	0.00076	mg/L	0.000668	0.1427	mg/kg	0.12494	87.57%
Be 313.042†	96.9	0.00123	mg/L	0.000079	0.2301	mg/kg	0.01472	6.40%
Be 313.107†	50.3	0.00142	mg/L	0.000050	0.2654	mg/kg	0.00933	3.52%
Ca 315.887†	240058.3	130.6	mg/L	0.68	24450	mg/kg	127.1	0.52%
Ca 317.933†	231808.1	123.3	mg/L	2.40	23080	mg/kg	450.0	1.95%
Cd 214.440†	14.5	0.01473	mg/L	0.002787	2.757	mg/kg	0.5215	18.92%
Cd 226.502†	13.6	0.01407	mg/L	0.004925	2.633	mg/kg	0.9217	35.00%
Cd 228.802†	7.6	0.01101	mg/L	0.006459	2.061	mg/kg	1.2089	58.66%
Ce 413.380†	62.5	0.01495	mg/L	0.067207	2.798	mg/kg	12.5785	449.54%
Ce 413.764†	89.1	0.06247	mg/L	0.006279	11.69	mg/kg	1.175	10.05%
Ce 418.660†	110.5	0.06430	mg/L	0.006870	12.03	mg/kg	1.286	10.68%
Co 228.616†	10.9	0.01699	mg/L	0.003517	3.180	mg/kg	0.6583	20.70%
Co 230.786†	15.3	0.01820	mg/L	0.001997	3.406	mg/kg	0.3737	10.97%
Co 238.892†	208.8	0.05594	mg/L	0.003223	10.47	mg/kg	0.603	5.76%
Cr 205.560†	30.2	0.2400	mg/L	0.01205	44.93	mg/kg	2.255	5.02%
Cr 267.716†	186.8	0.2324	mg/L	0.00283	43.49	mg/kg	0.530	1.22%
Cr 283.563†	1398.6	0.2204	mg/L	0.00496	41.26	mg/kg	0.928	2.25%
Cu 224.700†	98.5	0.3504	mg/L	0.00972	65.58	mg/kg	1.818	2.77%
Cu 324.752†	2149.8	0.3573	mg/L	0.00463	66.87	mg/kg	0.866	1.30%
Cu 327.393†	965.0	0.3613	mg/L	0.00253	67.62	mg/kg	0.474	0.70%
Fe 238.204†	308426.3	202.8	mg/L	3.91	37970	mg/kg	732.1	1.93%
Fe 239.562†	178379.4	203.6	mg/L	1.19	38110	mg/kg	222.3	0.58%
Fe 259.939†	591590.5	203.9	mg/L	4.03	38150	mg/kg	755.1	1.98%
Fe 273.955†	96550.2	225.7	mg/L	1.24	42250	mg/kg	232.6	0.55%
K 766.490†	1519.2	1.136	mg/L	0.0663	212.6	mg/kg	12.40	5.83%

Li 610.362†	779.2	0.09069	mg/L	0.025669	16.97	mg/kg	4.804	28.30%
Li 670.784†	372.8	0.01176	mg/L	0.001227	2.202	mg/kg	0.2296	10.43%
Mg 279.077†	20891.9	66.68	mg/L	0.317	12480	mg/kg	59.4	0.48%
Mg 280.271†	2890387.8	61.00	mg/L	1.163	11420	mg/kg	217.6	1.91%
Mg 285.213†	253238.6	63.25	mg/L	1.302	11840	mg/kg	243.7	2.06%
Mn 257.610†	21168.1	1.801	mg/L	0.0083	337.1	mg/kg	1.55	0.46%
Mn 259.372†	22068.5	1.779	mg/L	0.0133	332.9	mg/kg	2.50	0.75%
Mn 260.568†	13214.1	1.798	mg/L	0.0156	336.5	mg/kg	2.92	0.87%
Mo 202.031†	7.5	0.6686	mg/L	0.08142	125.1	mg/kg	15.24	12.18%
Mo 203.845†	4.6	0.1303	mg/L	0.09997	24.40	mg/kg	18.711	76.70%
Mo 204.597†	3.5	0.05585	mg/L	0.012203	10.45	mg/kg	2.284	21.85%
Na 588.995†	3881.6	0.6665	mg/L	0.02252	124.7	mg/kg	4.22	3.38%
Na 589.592†	2426.7	0.6219	mg/L	0.03441	116.4	mg/kg	6.44	5.53%
Ni 221.648†	11.7	0.1543	mg/L	0.02099	28.88	mg/kg	3.928	13.60%
Ni 231.604†	43.7	0.1485	mg/L	0.00488	27.80	mg/kg	0.914	3.29%
Ni 232.003†	27.7	0.1498	mg/L	0.01690	28.03	mg/kg	3.162	11.28%
Pb 217.000†	98.7	4.400	mg/L	0.0483	823.6	mg/kg	9.04	1.10%
Pb 220.353†	193.8	4.449	mg/L	0.0363	832.7	mg/kg	6.80	0.82%
Sb 206.836†	5.4	0.2298	mg/L	0.06455	43.02	mg/kg	12.082	28.09%
Sb 217.582†	-0.9	-0.08380	mg/L	0.136651	-15.68	mg/kg	25.576	163.06%
Sb 231.146†	1.9	0.07661	mg/L	0.056799	14.34	mg/kg	10.631	74.14%
Se 196.026†	-2.1	-0.3253	mg/L	0.16926	-60.89	mg/kg	31.678	52.03%
Se 203.985†	1.7	0.09675	mg/L	0.639909	18.11	mg/kg	119.766	661.41%
Sn 189.927†	4.0	0.4600	mg/L	0.23406	86.08	mg/kg	43.807	50.89%
Sn 235.485†	2883.4	-3.164	mg/L	1.2632	-592.1	mg/kg	236.43	39.93%
Sn 283.998†	9.2	0.1369	mg/L	0.02740	25.61	mg/kg	5.128	20.02%
Sr 407.771†	22902.4	0.07009	mg/L	0.000240	13.12	mg/kg	0.045	0.34%
Sr 421.552†	10366.8	0.07041	mg/L	0.000316	13.18	mg/kg	0.059	0.45%
Sr 460.733†	106.8	0.04328	mg/L	0.012508	8.100	mg/kg	2.3411	28.90%
Ti 334.940†	11899.3	0.6037	mg/L	0.00568	113.0	mg/kg	1.06	0.94%
Ti 336.121†	8400.4	0.6019	mg/L	0.00456	112.7	mg/kg	0.85	0.76%
Ti 337.279†	4383.4	0.6010	mg/L	0.00289	112.5	mg/kg	0.54	0.48%
Tl 190.801†	-0.9	-0.1922	mg/L	0.41977	-35.98	mg/kg	78.564	218.36%
Tl 276.787†	252.2	1.077	mg/L	0.1125	201.5	mg/kg	21.06	10.45%
Tl 351.924†	-11.8	-0.08811	mg/L	0.011225	-16.49	mg/kg	2.101	12.74%
V 290.880†	100.4	0.03946	mg/L	0.000506	7.386	mg/kg	0.0947	1.28%
V 309.310†	1834.9	0.06915	mg/L	0.001869	12.94	mg/kg	0.350	2.70%
V 310.230†	417.2	0.05624	mg/L	0.001749	10.53	mg/kg	0.327	3.11%
Zn 202.548†	947.8	3.510	mg/L	0.0300	657.0	mg/kg	5.61	0.85%
Zn 206.200†	1073.6	3.530	mg/L	0.0347	660.6	mg/kg	6.50	0.98%
Zn 213.857†	1724.5	3.631	mg/L	0.0359	679.5	mg/kg	6.72	0.99%

Sequence No.: 23 **Autosampler Location: 33**
Sample ID: 0305007-15 **Date Collected: 8/19/03 11:42:16 AM**
Analyst:
Sample Wt: 0.5396 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:03:38 AM,**

Mean Data: 0305007-15

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161551.3						1057.08	0.65%
Ag 328.068†	-9.7	0.00045	mg/L	0.001217	0.08282	mg/kg	0.225525	272.32%
Ag 338.289†	-15.3	-0.00005	mg/L	0.001809	-0.00907	mg/kg	0.335171	>999.9%
Al 308.215†	5390.4	8.651	mg/L	0.1226	1603	mg/kg	22.7	1.42%
Al 394.401†	7429.0	8.898	mg/L	0.0523	1649	mg/kg	9.7	0.59%
Al 396.153†	16764.0	9.117	mg/L	0.0673	1690	mg/kg	12.5	0.74%
As 188.979†	2.8	0.3271	mg/L	0.31017	60.61	mg/kg	57.481	94.84%
As 193.696†	-0.0	0.03920	mg/L	0.145272	7.264	mg/kg	26.9222	370.62%
As 197.197†	-4.4	-0.4903	mg/L	0.12265	-90.87	mg/kg	22.730	25.01%
B 208.889†	6.4	0.09192	mg/L	0.032374	17.03	mg/kg	6.000	35.22%
B 249.677†	11.5	0.02893	mg/L	0.003783	5.362	mg/kg	0.7011	13.07%
B 249.772†	74.4	0.02632	mg/L	0.001081	4.877	mg/kg	0.2003	4.11%
Ba 233.527†	144.0	0.06880	mg/L	0.001537	12.75	mg/kg	0.285	2.23%
Ba 455.403†	8792.6	0.07586	mg/L	0.001379	14.06	mg/kg	0.256	1.82%
Ba 493.408†	8577.4	0.07537	mg/L	0.001358	13.97	mg/kg	0.252	1.80%
Be 234.861†	86.8	-0.00026	mg/L	0.000534	-0.04872	mg/kg	0.099033	203.27%
Be 313.042†	42.5	0.00044	mg/L	0.000041	0.08179	mg/kg	0.007644	9.35%
Be 313.107†	17.9	0.00050	mg/L	0.000014	0.09244	mg/kg	0.002555	2.76%

Ca 315.887†	216011.2	117.5 mg/L	0.86	21780 mg/kg	159.3	0.73%
Ca 317.933†	207921.1	110.6 mg/L	0.75	20500 mg/kg	139.7	0.68%
Cd 214.440†	6.7	0.00661 mg/L	0.002222	1.224 mg/kg	0.4119	33.64%
Cd 226.502†	4.7	0.00552 mg/L	0.004974	1.023 mg/kg	0.9217	90.07%
Cd 228.802†	3.8	0.00620 mg/L	0.001982	1.149 mg/kg	0.3673	31.97%
Ce 413.380†	72.6	0.04855 mg/L	0.008888	8.997 mg/kg	1.6472	18.31%
Ce 413.764†	73.8	0.05551 mg/L	0.007130	10.29 mg/kg	1.321	12.85%
Ce 418.660†	72.6	0.04486 mg/L	0.006533	8.314 mg/kg	1.2107	14.56%
Co 228.616†	9.1	0.01577 mg/L	0.004163	2.923 mg/kg	0.7715	26.39%
Co 230.786†	11.8	0.01612 mg/L	0.001866	2.988 mg/kg	0.3459	11.58%
Co 238.892†	91.1	0.02586 mg/L	0.022294	4.792 mg/kg	4.1315	86.21%
Cr 205.560†	14.8	0.1164 mg/L	0.02289	21.58 mg/kg	4.242	19.66%
Cr 267.716†	101.9	0.1265 mg/L	0.00124	23.44 mg/kg	0.230	0.98%
Cr 283.563†	694.5	0.1169 mg/L	0.00122	21.67 mg/kg	0.226	1.04%
Cu 224.700†	44.4	0.1575 mg/L	0.00865	29.19 mg/kg	1.604	5.49%
Cu 324.752†	926.2	0.1539 mg/L	0.00077	28.52 mg/kg	0.142	0.50%
Cu 327.393†	419.5	0.1559 mg/L	0.00456	28.89 mg/kg	0.845	2.93%
Fe 238.204†	134977.5	88.78 mg/L	0.620	16450 mg/kg	114.8	0.70%
Fe 239.562†	77557.2	88.53 mg/L	0.695	16410 mg/kg	128.7	0.78%
Fe 259.939†	258254.2	88.99 mg/L	0.642	16490 mg/kg	119.0	0.72%
Fe 273.955†	41644.8	97.37 mg/L	0.567	18050 mg/kg	105.1	0.58%
K 766.490†	1260.7	0.9425 mg/L	0.03190	174.7 mg/kg	5.91	3.38%
Li 610.362†	1123.1	0.1693 mg/L	0.05759	31.37 mg/kg	10.672	34.02%
Li 670.784†	228.4	0.00737 mg/L	0.002025	1.366 mg/kg	0.3752	27.46%
Mg 279.077†	19675.7	62.83 mg/L	0.665	11640 mg/kg	123.1	1.06%
Mg 280.271†	2764593.0	58.35 mg/L	0.338	10810 mg/kg	62.6	0.58%
Mg 285.213†	241387.6	60.30 mg/L	0.284	11180 mg/kg	52.6	0.47%
Mn 257.610†	8206.1	0.6973 mg/L	0.00520	129.2 mg/kg	0.96	0.75%
Mn 259.372†	8691.8	0.6901 mg/L	0.00642	127.9 mg/kg	1.19	0.93%
Mn 260.568†	5135.6	0.6976 mg/L	0.00728	129.3 mg/kg	1.35	1.04%
Mo 202.031†	7.0	0.6447 mg/L	0.16529	119.5 mg/kg	30.63	25.64%
Mo 203.845†	4.2	0.1347 mg/L	0.03536	24.96 mg/kg	6.554	26.25%
Mo 204.597†	3.5	0.05899 mg/L	0.014362	10.93 mg/kg	2.662	24.35%
Na 588.995†	2705.5	0.4646 mg/L	0.03279	86.09 mg/kg	6.076	7.06%
Na 589.592†	1805.2	0.4626 mg/L	0.01523	85.73 mg/kg	2.822	3.29%
Ni 221.648†	5.0	0.06968 mg/L	0.009708	12.91 mg/kg	1.799	13.93%
Ni 231.604†	23.8	0.08117 mg/L	0.003250	15.04 mg/kg	0.602	4.00%
Ni 232.003†	15.8	0.08943 mg/L	0.025353	16.57 mg/kg	4.698	28.35%
Pb 217.000†	36.7	1.592 mg/L	0.0519	295.1 mg/kg	9.62	3.26%
Pb 220.353†	74.4	1.683 mg/L	0.0308	312.0 mg/kg	5.70	1.83%
Sb 206.836†	2.6	0.1010 mg/L	0.05399	18.71 mg/kg	10.006	53.48%
Sb 217.582†	-1.4	-0.06628 mg/L	0.008440	-12.28 mg/kg	1.564	12.73%
Sb 231.146†	1.0	0.04360 mg/L	0.095040	8.080 mg/kg	17.6131	217.99%
Se 196.026†	-0.9	-0.1401 mg/L	0.20121	-25.97 mg/kg	37.289	143.59%
Se 203.985†	2.0	0.2050 mg/L	0.20115	37.98 mg/kg	37.277	98.14%
Sn 189.927†	2.1	0.2385 mg/L	0.21987	44.19 mg/kg	40.746	92.21%
Sn 235.485†	1255.2	-1.065 mg/L	0.2169	-197.3 mg/kg	40.19	20.37%
Sn 283.998†	-6.4	0.04547 mg/L	0.025406	8.427 mg/kg	4.7083	55.87%
Sr 407.771†	16072.3	0.04853 mg/L	0.000422	8.994 mg/kg	0.0783	0.87%
Sr 421.552†	7241.4	0.04864 mg/L	0.000535	9.013 mg/kg	0.0992	1.10%
Sr 460.733†	23.5	0.00374 mg/L	0.042222	0.6935 mg/kg	7.82474	>999.9%
Ti 334.940†	9848.0	0.4998 mg/L	0.00298	92.63 mg/kg	0.552	0.60%
Ti 336.121†	6961.0	0.4986 mg/L	0.01196	92.40 mg/kg	2.216	2.40%
Ti 337.279†	3625.9	0.4973 mg/L	0.00072	92.15 mg/kg	0.134	0.15%
Tl 190.801†	-1.4	-0.2640 mg/L	0.50324	-48.93 mg/kg	93.262	190.60%
Tl 276.787†	252.5	1.240 mg/L	0.0729	229.9 mg/kg	13.52	5.88%
Tl 351.924†	-1.6	-0.01752 mg/L	0.085474	-3.247 mg/kg	15.8403	487.88%
V 290.880†	38.1	0.02373 mg/L	0.003597	4.398 mg/kg	0.6665	15.15%
V 309.310†	1622.5	0.04333 mg/L	0.002316	8.030 mg/kg	0.4292	5.35%
V 310.230†	287.7	0.03844 mg/L	0.000512	7.123 mg/kg	0.0950	1.33%
Zn 202.548†	308.2	1.138 mg/L	0.0053	211.0 mg/kg	0.98	0.47%
Zn 206.200†	351.5	1.156 mg/L	0.0088	214.3 mg/kg	1.62	0.76%
Zn 213.857†	570.2	1.195 mg/L	0.0048	221.5 mg/kg	0.89	0.40%

Sequence No.: 24 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 8/19/03 11:46:07 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:03:44 AM,**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	165844.7						2205.17	1.33%
Ag 328.068†	0.6	0.00012	mg/L	0.001252				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-5.0	-0.00179	mg/L	0.000971				54.38%
Al 308.215†	-3.6	-0.00587	mg/L	0.010324				175.82%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	6.3	0.00790	mg/L	0.010794				136.60%
Al 396.153†	-2.4	-0.00144	mg/L	0.000508				35.21%
As 188.979†	-0.3	-0.04639	mg/L	0.198373				427.66%
As 193.696†	0.5	0.1036	mg/L	0.10402				100.45%
As 197.197†	0.1	0.01459	mg/L	0.364655				>999.9%
B 208.889†	-0.6	-0.01106	mg/L	0.024345				220.19%
B 249.677†	-1.2	-0.00278	mg/L	0.004525				162.87%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	1.3	0.00128	mg/L	0.002546				199.34%
Ba 233.527†	0.4	0.00022	mg/L	0.001344				598.66%
Ba 455.403†	13.5	0.00011	mg/L	0.000193				173.50%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	104.5	0.00093	mg/L	0.000225				24.26%
Be 234.861†	-0.7	-0.00006	mg/L	0.000017				29.20%
Be 313.042†	-6.2	-0.00009	mg/L	0.000055				60.13%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-3.8	-0.00011	mg/L	0.000223				207.40%
Ca 315.887†	72.4	0.03940	mg/L	0.010620				26.96%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	56.4	0.02999	mg/L	0.005927				19.77%
Cd 214.440†	1.9	0.00233	mg/L	0.001879				80.75%
Cd 226.502†	0.9	0.00177	mg/L	0.000945				53.54%
Cd 228.802†	0.4	-0.00074	mg/L	0.001386				186.06%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-6.9	-0.00632	mg/L	0.005347				84.66%
Ce 413.764†	2.0	0.00170	mg/L	0.005453				320.97%
Ce 418.660†	0.6	0.00037	mg/L	0.005949				>999.9%
Co 228.616†	0.6	0.00113	mg/L	0.002303				204.10%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-0.3	-0.00043	mg/L	0.004586				>999.9%
Co 238.892†	-2.4	-0.00495	mg/L	0.002348				47.46%
Cr 205.560†	1.0	0.00762	mg/L	0.009014				118.25%
Cr 267.716†	4.3	0.00519	mg/L	0.002720				52.43%
Cr 283.563†	-4.1	-0.00096	mg/L	0.000830				86.30%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-0.7	-0.00265	mg/L	0.005544				209.40%
Cu 324.752†	-3.0	-0.00051	mg/L	0.001359				267.89%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-1.1	-0.00039	mg/L	0.001121				284.57%
Fe 238.204†	75.8	0.04992	mg/L	0.015269				30.59%
Fe 239.562†	40.0	0.04574	mg/L	0.011619				25.40%
Fe 259.939†	138.1	0.04764	mg/L	0.010360				21.75%
Fe 273.955†	19.8	0.04627	mg/L	0.018641				40.29%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-36.0	-0.02689	mg/L	0.029871				111.08%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	196.5	0.03669	mg/L	0.096437				262.83%
Li 670.784†	-264.0	-0.00723	mg/L	0.001975				27.33%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	8.8	0.02805	mg/L	0.012927				46.09%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mg 280.271†	939.8	0.01984	mg/L	0.005012				25.26%
Mg 285.213†	86.3	0.02156	mg/L	0.005663				26.27%
Mn 257.610†	7.6	0.00065	mg/L	0.000448				69.31%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 259.372†	6.1	0.00050	mg/L	0.000544				108.87%
Mn 260.568†	8.5	0.00116	mg/L	0.000479				41.16%
Mo 202.031†	-0.1	-0.01610	mg/L	0.050885				315.96%
Mo 203.845†	2.2	0.07306	mg/L	0.053762				73.59%
Mo 204.597†	0.1	0.00185	mg/L	0.009979				539.91%
QC value within limits for Mo 204.597 Recovery = Not calculated								

Na 588.995†	-29.5	-0.00506	mg/L	0.031586	623.77%
Na 589.592†	21.8	0.00559	mg/L	0.010002	178.97%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	2.1	0.02642	mg/L	0.013956	52.82%
Ni 231.604†	0.1	0.00040	mg/L	0.002746	693.08%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-1.2	-0.00711	mg/L	0.006123	86.15%
Pb 217.000†	1.0	0.04702	mg/L	0.042516	90.42%
Pb 220.353†	-2.2	-0.05080	mg/L	0.047616	93.74%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.0	-0.00170	mg/L	0.047800	>999.9%
Sb 217.582†	0.7	0.04101	mg/L	0.043136	105.18%
Sb 231.146†	-0.7	-0.03456	mg/L	0.038025	110.02%
Se 196.026†	-1.1	-0.1510	mg/L	0.06141	40.67%
Se 203.985†	-1.6	-0.2247	mg/L	0.12836	57.12%
Sn 189.927†	-0.3	-0.03396	mg/L	0.084431	248.59%
Sn 235.485†	1.6	0.02648	mg/L	0.104644	395.21%
Sn 283.998†	2.8	0.00484	mg/L	0.017632	364.01%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-20.0	-0.00007	mg/L	0.000155	238.76%
Sr 421.552†	3.9	0.00003	mg/L	0.000069	261.61%
Sr 460.733†	-0.0	0.00003	mg/L	0.034333	>999.9%
Ti 334.940†	3.1	0.00015	mg/L	0.000447	288.43%
Ti 336.121†	-9.0	-0.00065	mg/L	0.000548	84.55%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	6.6	0.00091	mg/L	0.000974	107.26%
Tl 190.801†	0.1	0.02973	mg/L	0.121117	407.42%
Tl 276.787†	-3.5	-0.03748	mg/L	0.048532	129.47%
Tl 351.924†	-10.3	-0.06706	mg/L	0.035871	53.49%
V 290.880†	-1.5	-0.00052	mg/L	0.000951	183.35%
V 309.310†	-0.7	-0.00021	mg/L	0.000966	467.95%
V 310.230†	10.9	0.00150	mg/L	0.002672	177.93%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	2.5	0.00936	mg/L	0.004207	44.94%
Zn 206.200†	4.8	0.01576	mg/L	0.004455	28.27%
Zn 213.857†	4.2	0.00885	mg/L	0.001615	18.24%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analytes passed QC.

Sequence No.: 25 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 11:49:51 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:03:50 AM,**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163608.9						1736.98	1.06%
Ag 328.068†	1240.8	0.2532	mg/L	0.00423				1.67%
QC value within limits for Ag 328.068 Recovery = 101.30%								
Ag 338.289†	696.2	0.2519	mg/L	0.00593				2.35%
Al 308.215†	635.3	0.9994	mg/L	0.02934				2.94%
QC value within limits for Al 308.215 Recovery = 99.94%								
Al 394.401†	930.7	1.042	mg/L	0.0339				3.25%
Al 396.153†	1941.1	1.065	mg/L	0.0452				4.24%
As 188.979†	14.5	2.084	mg/L	0.1847				8.86%
As 193.696†	9.4	1.866	mg/L	0.3225				17.28%
As 197.197†	10.6	1.869	mg/L	0.1467				7.85%
B 208.889†	55.9	0.9594	mg/L	0.03007				3.13%
B 249.677†	421.8	0.9767	mg/L	0.02282				2.34%
QC value within limits for B 249.677 Recovery = 97.67%								
B 249.772†	951.5	0.9729	mg/L	0.01275				1.31%
Ba 233.527†	1854.8	0.9923	mg/L	0.01565				1.58%
Ba 455.403†	119169.2	1.032	mg/L	0.0077				0.74%
QC value within limits for Ba 455.403 Recovery = 103.19%								
Ba 493.408†	114997.3	1.023	mg/L	0.0063				0.62%
Be 234.861†	12201.9	0.9891	mg/L	0.01912				1.93%
Be 313.042†	65697.1	0.9935	mg/L	0.01839				1.85%

QC value within limits for Be 313.042 Recovery = 99.35%					
Be 313.107†	34900.0	0.9936	mg/L	0.02120	2.13%
Ca 315.887†	2024.6	1.098	mg/L	0.0147	1.34%
Ca 317.933†	1942.4	1.031	mg/L	0.0186	1.80%
QC value within limits for Ca 317.933 Recovery = 103.11%					
Cd 214.440†	842.1	1.012	mg/L	0.0131	1.30%
Cd 226.502†	519.3	0.9932	mg/L	0.00463	0.47%
Cd 228.802†	739.2	0.9524	mg/L	0.02026	2.13%
QC value within limits for Cd 228.802 Recovery = 95.24%					
Ce 413.380†	1099.9	1.002	mg/L	0.0067	0.67%
Ce 413.764†	1170.2	0.9862	mg/L	0.01659	1.68%
Ce 418.660†	1572.0	1.010	mg/L	0.0586	5.80%
Co 228.616†	536.0	0.9740	mg/L	0.01069	1.10%
QC value within limits for Co 228.616 Recovery = 97.40%					
Co 230.786†	572.4	0.9630	mg/L	0.01775	1.84%
Co 238.892†	481.7	0.9582	mg/L	0.01877	1.96%
Cr 205.560†	123.6	0.9797	mg/L	0.01174	1.20%
Cr 267.716†	810.7	0.9877	mg/L	0.01640	1.66%
Cr 283.563†	4315.1	0.9981	mg/L	0.01576	1.58%
QC value within limits for Cr 283.563 Recovery = 99.81%					
Cu 224.700†	254.5	0.9991	mg/L	0.01359	1.36%
Cu 324.752†	6111.9	1.030	mg/L	0.0250	2.43%
QC value within limits for Cu 324.752 Recovery = 103.05%					
Cu 327.393†	2655.4	1.010	mg/L	0.0215	2.13%
Fe 238.204†	1639.3	1.086	mg/L	0.0163	1.50%
Fe 239.562†	943.4	1.084	mg/L	0.0189	1.74%
Fe 259.939†	3135.9	1.088	mg/L	0.0192	1.77%
QC value within limits for Fe 259.939 Recovery = 108.76%					
Fe 273.955†	503.2	1.177	mg/L	0.0114	0.97%
K 766.490†	6445.8	4.819	mg/L	0.1746	3.62%
QC value within limits for K 766.490 Recovery = 96.38%					
Li 610.362†	6433.5	1.176	mg/L	0.0393	3.34%
Li 670.784†	37661.8	1.032	mg/L	0.0184	1.78%
QC value less than the lower limit for Li 670.784 Recovery = 20.64%					
Mg 279.077†	323.7	1.033	mg/L	0.0175	1.69%
Mg 280.271†	47830.5	1.009	mg/L	0.0176	1.74%
QC value within limits for Mg 280.271 Recovery = 100.89%					
Mg 285.213†	3994.5	0.9975	mg/L	0.01420	1.42%
Mn 257.610†	11945.8	1.019	mg/L	0.0221	2.17%
QC value within limits for Mn 257.610 Recovery = 101.87%					
Mn 259.372†	11037.2	1.017	mg/L	0.0224	2.20%
Mn 260.568†	7423.2	1.016	mg/L	0.0234	2.31%
Mo 202.031†	0.5	0.05546	mg/L	0.103630	186.84%
Mo 203.845†	2.2	0.07544	mg/L	0.015062	19.97%
Mo 204.597†	0.6	0.00939	mg/L	0.003725	39.67%
Na 588.995†	6012.4	1.032	mg/L	0.0477	4.62%
Na 589.592†	4232.6	1.085	mg/L	0.0240	2.21%
Ni 221.648†	78.8	0.9981	mg/L	0.02062	2.07%
Ni 231.604†	283.9	0.9835	mg/L	0.01790	1.82%
QC value within limits for Ni 231.604 Recovery = 98.35%					
Ni 232.003†	176.2	0.9783	mg/L	0.03408	3.48%
Pb 217.000†	40.5	1.917	mg/L	0.1680	8.76%
Pb 220.353†	81.9	1.898	mg/L	0.0917	4.83%
QC value within limits for Pb 220.353 Recovery = 94.89%					
Sb 206.836†	0.1	-0.01515	mg/L	0.040136	264.89%
Sb 217.582†	0.5	0.02427	mg/L	0.101285	417.40%
Sb 231.146†	-0.3	-0.1410	mg/L	0.05593	39.66%
Se 196.026†	6.6	0.9166	mg/L	0.23827	25.99%
Se 203.985†	7.8	0.9268	mg/L	0.15522	16.75%
Sn 189.927†	0.9	0.1088	mg/L	0.10709	98.44%
Sn 235.485†	15.5	0.01061	mg/L	0.050382	474.81%
Sn 283.998†	141.9	-0.01793	mg/L	0.015316	85.41%
Sr 407.771†	319959.4	1.019	mg/L	0.0068	0.66%
Sr 421.552†	144091.7	1.025	mg/L	0.0064	0.62%
Sr 460.733†	2197.6	1.077	mg/L	0.0593	5.51%
Ti 334.940†	10.7	0.00011	mg/L	0.000140	122.96%
Ti 336.121†	10.3	0.00066	mg/L	0.000228	34.35%
Ti 337.279†	-0.2	0.00008	mg/L	0.000388	501.90%
Tl 190.801†	23.0	4.635	mg/L	0.2254	4.86%
Tl 276.787†	436.0	4.609	mg/L	0.1196	2.60%
Tl 351.924†	766.6	4.975	mg/L	0.0847	1.70%

V 290.880†	2734.8	0.9648	mg/L	0.01234	1.28%
V 309.310†	6205.0	0.9822	mg/L	0.02274	2.32%
V 310.230†	7138.6	0.9759	mg/L	0.02097	2.15%
QC value within limits for V 310.230 Recovery = 97.59%					
Zn 202.548†	272.4	1.005	mg/L	0.0093	0.93%
Zn 206.200†	314.1	1.033	mg/L	0.0111	1.07%
Zn 213.857†	489.7	1.034	mg/L	0.0083	0.80%
QC value within limits for Zn 213.857 Recovery = 103.35%					
QC Failed. Continue with analysis.					

==========

Sequence No.: 26 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 11:53:41 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:03:56 AM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	165005.8						1457.15	0.88%
Ag 328.068†	-21.5	-0.00160	mg/L	0.002189				136.71%
Ag 338.289†	-9.8	-0.00292	mg/L	0.003763				128.88%
Al 308.215†	13.5	0.01085	mg/L	0.013968				128.74%
Al 394.401†	24.9	0.03035	mg/L	0.003923				12.93%
Al 396.153†	125.7	0.03559	mg/L	0.003644				10.24%
As 188.979†	0.3	0.03805	mg/L	0.284493				747.72%
As 193.696†	-1.2	-0.2355	mg/L	0.19726				83.76%
As 197.197†	-0.7	-0.1207	mg/L	0.09041				74.92%
B 208.889†	0.2	0.00413	mg/L	0.021221				514.18%
B 249.677†	1.5	0.00377	mg/L	0.010452				277.55%
B 249.772†	1.4	0.00169	mg/L	0.000900				53.27%
Ba 233.527†	-24.8	-0.01258	mg/L	0.001003				7.98%
Ba 455.403†	142.9	0.00117	mg/L	0.000103				8.82%
Ba 493.408†	166.1	0.00141	mg/L	0.000710				50.25%
Be 234.861†	3.9	0.00040	mg/L	0.000067				16.59%
Be 313.042†	13.4	0.00019	mg/L	0.000026				13.71%
Be 313.107†	10.2	0.00027	mg/L	0.000105				38.63%
Ca 315.887†	51.7	0.02833	mg/L	0.001449				5.11%
Ca 317.933†	34.6	0.01914	mg/L	0.002788				14.57%
Cd 214.440†	-0.1	0.00003	mg/L	0.001933				>999.9%
Cd 226.502†	1.9	0.00355	mg/L	0.001478				41.63%
Cd 228.802†	-0.0	0.00258	mg/L	0.001441				55.79%
Ce 413.380†	-17.3	-0.01598	mg/L	0.006835				42.76%
Ce 413.764†	8.1	0.00646	mg/L	0.008394				129.99%
Ce 418.660†	5.7	0.00338	mg/L	0.007298				216.22%
Co 228.616†	4.1	0.00637	mg/L	0.002349				36.89%
Co 230.786†	-0.3	-0.00097	mg/L	0.003347				344.41%
Co 238.892†	-1.0	-0.00172	mg/L	0.001069				62.30%
Cr 205.560†	1.0	0.00744	mg/L	0.014370				193.27%
Cr 267.716†	7.2	0.00868	mg/L	0.004852				55.91%
Cr 283.563†	2.9	0.00047	mg/L	0.000526				112.12%
Cu 224.700†	0.2	-0.00277	mg/L	0.000745				26.87%
Cu 324.752†	1.5	-0.00214	mg/L	0.001552				72.39%
Cu 327.393†	9.9	0.00148	mg/L	0.001584				107.21%
Fe 238.204†	97.7	0.06620	mg/L	0.000968				1.46%
Fe 239.562†	55.6	0.06550	mg/L	0.002026				3.09%
Fe 259.939†	181.4	0.06460	mg/L	0.000438				0.68%
Fe 273.955†	26.4	0.06393	mg/L	0.012701				19.87%
K 766.490†	36.4	0.02723	mg/L	0.070759				259.87%
Li 610.362†	332.5	0.05987	mg/L	0.068300				114.08%
Li 670.784†	-33.1	-0.00075	mg/L	0.002032				269.94%
Mg 279.077†	-1.5	-0.00430	mg/L	0.013182				306.62%
Mg 280.271†	361.0	0.00767	mg/L	0.000096				1.25%
Mg 285.213†	40.9	0.01030	mg/L	0.000997				9.67%
Mn 257.610†	24.7	0.00173	mg/L	0.000071				4.06%
Mn 259.372†	77.2	0.00200	mg/L	0.000440				22.06%
Mn 260.568†	14.5	0.00202	mg/L	0.000144				7.15%
Mo 202.031†	7.0	0.8248	mg/L	0.14258				17.29%
Mo 203.845†	29.8	0.9994	mg/L	0.06832				6.84%

Mo 204.597†	55.0	0.9553	mg/L	0.04691	4.91%
QC value within limits for Mo 204.597 Recovery = 95.53%					
Na 588.995†	300.0	0.05152	mg/L	0.032254	62.61%
Na 589.592†	336.5	0.08624	mg/L	0.006785	7.87%
Ni 221.648†	-1.4	-0.01747	mg/L	0.022632	129.58%
Ni 231.604†	0.2	0.00031	mg/L	0.005468	>999.9%
Ni 232.003†	-2.1	-0.01802	mg/L	0.014055	77.98%
Pb 217.000†	-0.1	-0.00274	mg/L	0.075573	>999.9%
Pb 220.353†	-3.1	-0.06775	mg/L	0.056203	82.96%
Sb 206.836†	42.8	1.934	mg/L	0.1250	6.46%
QC value within limits for Sb 206.836 Recovery = 96.72%					
Sb 217.582†	37.5	2.063	mg/L	0.1521	7.37%
QC value within limits for Sb 217.582 Recovery = 103.16%					
Sb 231.146†	41.1	2.058	mg/L	0.0462	2.25%
QC value within limits for Sb 231.146 Recovery = 102.91%					
Se 196.026†	-2.5	-0.3583	mg/L	0.39230	109.48%
Se 203.985†	0.1	-0.04802	mg/L	0.073609	153.28%
Sn 189.927†	36.0	4.380	mg/L	0.2147	4.90%
Sn 235.485†	185.1	4.821	mg/L	0.0381	0.79%
Sn 283.998†	773.6	2.258	mg/L	0.0071	0.32%
QC value less than the lower limit for Sn 283.998 Recovery = 45.16%					
Sr 407.771†	171.6	0.00043	mg/L	0.000220	51.36%
Sr 421.552†	79.7	0.00045	mg/L	0.000152	33.56%
Sr 460.733†	9.5	0.00542	mg/L	0.015086	278.45%
Ti 334.940†	19653.5	0.9911	mg/L	0.00598	0.60%
Ti 336.121†	13713.3	0.9878	mg/L	0.00379	0.38%
QC value within limits for Ti 336.121 Recovery = 98.78%					
Ti 337.279†	7180.5	0.9862	mg/L	0.00473	0.48%
Tl 190.801†	0.8	0.1705	mg/L	0.28794	168.83%
Tl 276.787†	-4.4	-0.04504	mg/L	0.009556	21.22%
Tl 351.924†	-0.3	-0.00499	mg/L	0.070661	>999.9%
V 290.880†	0.8	0.00022	mg/L	0.001561	713.52%
V 309.310†	3.4	0.00069	mg/L	0.000446	65.07%
V 310.230†	-5.4	-0.00067	mg/L	0.001679	249.47%
Zn 202.548†	5.2	0.02001	mg/L	0.006592	32.94%
Zn 206.200†	6.0	0.02048	mg/L	0.004344	21.21%
Zn 213.857†	7.9	0.01732	mg/L	0.003676	21.23%
QC Failed. Continue with analysis.					

==========

Sequence No.: 27 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 11:57:27 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:04:02 AM,**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162767.4						3180.20	1.95%
Ag 328.068†	3.8	0.00183	mg/L	0.000988				53.93%
Ag 338.289†	-20.5	-0.00117	mg/L	0.001187				101.20%
Al 308.215†	59996.9	96.43	mg/L	0.398				0.41%
QC value within limits for Al 308.215 Recovery = 96.43%								
Al 394.401†	82769.6	98.73	mg/L	0.227				0.23%
Al 396.153†	183737.6	100.1	mg/L	0.26				0.26%
As 188.979†	1.2	0.1072	mg/L	0.29675				276.73%
As 193.696†	-0.8	-0.1446	mg/L	0.11876				82.15%
As 197.197†	-3.4	-0.3819	mg/L	0.38934				101.95%
B 208.889†	1.2	0.01403	mg/L	0.031782				226.52%
B 249.677†	-2.4	-0.00332	mg/L	0.004938				148.90%
B 249.772†	44.0	-0.00783	mg/L	0.002340				29.88%
Ba 233.527†	13.6	-0.00166	mg/L	0.001901				114.21%
Ba 455.403†	115.9	0.00067	mg/L	0.000101				15.07%
Ba 493.408†	226.1	0.00092	mg/L	0.000105				11.47%
Be 234.861†	107.4	0.00096	mg/L	0.000427				44.41%
Be 313.042†	5.8	-0.00010	mg/L	0.000074				73.53%
Be 313.107†	1.9	0.00004	mg/L	0.000214				506.70%
Ca 315.887†	190113.9	103.5	mg/L	0.18				0.17%
QC value within limits for Ca 315.887 Recovery = 103.46%								

Ca 317.933†	182896.1	97.31	mg/L	0.207	0.21%
Cd 214.440†	0.3	0.00273	mg/L	0.002764	101.39%
Cd 226.502†	1.7	-0.00125	mg/L	0.002667	213.20%
Cd 228.802†	-0.5	0.00253	mg/L	0.002711	107.09%
Ce 413.380†	14.3	-0.00559	mg/L	0.007848	140.37%
Ce 413.764†	20.3	0.00928	mg/L	0.011526	124.18%
Ce 418.660†	31.2	0.01783	mg/L	0.003224	18.08%
Co 228.616†	-0.1	-0.00034	mg/L	0.009968	>999.9%
Co 230.786†	1.7	-0.00074	mg/L	0.001520	205.92%
Co 238.892†	82.2	-0.00083	mg/L	0.008327	>999.9%
Cr 205.560†	-1.0	-0.00913	mg/L	0.009541	104.47%
Cr 267.716†	0.6	0.00405	mg/L	0.005806	143.46%
Cr 283.563†	183.8	-0.00416	mg/L	0.002776	66.67%
Cu 224.700†	2.4	-0.00455	mg/L	0.011258	247.37%
Cu 324.752†	-22.4	-0.00634	mg/L	0.001436	22.66%
Cu 327.393†	9.3	-0.00009	mg/L	0.001249	>999.9%
Fe 238.204†	142708.6	93.86	mg/L	0.251	0.27%
Fe 239.562†	82048.1	93.65	mg/L	0.301	0.32%
Fe 259.939†	272845.8	94.02	mg/L	0.083	0.09%
Fe 273.955†	44058.1	103.0	mg/L	0.28	0.27%
QC value within limits for Fe 273.955 Recovery = 103.01%					
K 766.490†	128758.8	96.26	mg/L	0.342	0.36%
Li 610.362†	514.9	0.06187	mg/L	0.203313	328.61%
Li 670.784†	490.6	0.01472	mg/L	0.001113	7.56%
Mg 279.077†	18498.6	59.07	mg/L	0.281	0.48%
QC value within limits for Mg 279.077 Recovery = 98.45%					
Mg 280.271†	2570941.4	54.26	mg/L	0.394	0.73%
Mg 285.213†	224144.3	55.99	mg/L	0.061	0.11%
Mn 257.610†	34.4	0.00020	mg/L	0.000538	267.18%
Mn 259.372†	1218.4	-0.00550	mg/L	0.001935	35.15%
Mn 260.568†	48.5	0.00060	mg/L	0.000987	163.92%
Mo 202.031†	7.1	0.6741	mg/L	0.07592	11.26%
Mo 203.845†	3.4	0.07859	mg/L	0.080880	102.92%
Mo 204.597†	2.3	0.02799	mg/L	0.019655	70.22%
Na 588.995†	570982.9	98.04	mg/L	0.323	0.33%
Na 589.592†	376525.4	96.49	mg/L	0.495	0.51%
QC value within limits for Na 589.592 Recovery = 96.49%					
Ni 221.648†	0.8	0.01753	mg/L	0.020277	115.68%
Ni 231.604†	0.4	-0.00008	mg/L	0.012805	>999.9%
Ni 232.003†	-0.8	-0.00073	mg/L	0.028755	>999.9%
Pb 217.000†	8.6	0.07968	mg/L	0.041719	52.36%
Pb 220.353†	0.3	0.09818	mg/L	0.072859	74.21%
Sb 206.836†	2.0	0.06922	mg/L	0.050276	72.63%
Sb 217.582†	-1.7	-0.1260	mg/L	0.09082	72.10%
Sb 231.146†	0.4	0.02147	mg/L	0.120020	559.12%
Se 196.026†	-0.6	-0.1222	mg/L	0.45041	368.56%
Se 203.985†	0.4	-0.09858	mg/L	0.138784	140.78%
Sn 189.927†	1.6	0.1797	mg/L	0.06541	36.39%
Sn 235.485†	1294.1	-2.003	mg/L	0.4922	24.57%
Sn 283.998†	-54.3	-0.04527	mg/L	0.017430	38.51%
Sr 407.771†	545.4	-0.00062	mg/L	0.000054	8.69%
Sr 421.552†	269.7	-0.00068	mg/L	0.000055	8.06%
Sr 460.733†	2.3	-0.00607	mg/L	0.002620	43.16%
Ti 334.940†	-28.2	0.00078	mg/L	0.000554	70.93%
Ti 336.121†	40.1	-0.00026	mg/L	0.000398	154.35%
Ti 337.279†	22.1	0.00169	mg/L	0.000258	15.25%
Tl 190.801†	0.1	0.01544	mg/L	0.138156	894.61%
Tl 276.787†	228.4	1.081	mg/L	0.0431	3.98%
Tl 351.924†	-7.1	-0.05381	mg/L	0.018163	33.75%
V 290.880†	-77.9	-0.01965	mg/L	0.001621	8.25%
V 309.310†	1685.5	0.00238	mg/L	0.003275	137.83%
V 310.230†	-6.9	-0.00285	mg/L	0.004536	159.08%
Zn 202.548†	5.6	0.01708	mg/L	0.003123	18.28%
Zn 206.200†	7.3	0.02917	mg/L	0.006774	23.22%
Zn 213.857†	16.4	0.02651	mg/L	0.002200	8.30%

All analytes passed QC.

Sequence No.: 28 **Autosampler Location: 35**
Sample ID: 0305007-16 **Date Collected: 8/19/03 12:57:26 PM**
Analyst:

Sample Wt: 0.5464 g
Dilution: 1X

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:04:51 AM,

Mean Data: 0305007-16

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160145.3						2362.15	1.48%
Ag 328.068†	-6.7	0.00065	mg/L	0.001021	0.1187	mg/kg	0.18681	157.36%
Ag 338.289†	-17.1	-0.00022	mg/L	0.002508	-0.04059	mg/kg	0.458915	>999.9%
Al 308.215†	4996.9	8.022	mg/L	0.0711	1468	mg/kg	13.0	0.89%
Al 394.401†	6863.3	8.217	mg/L	0.1207	1504	mg/kg	22.1	1.47%
Al 396.153†	15349.2	8.351	mg/L	0.1207	1528	mg/kg	22.1	1.45%
As 188.979†	3.1	0.3903	mg/L	0.04431	71.44	mg/kg	8.110	11.35%
As 193.696†	1.5	0.3312	mg/L	0.11996	60.62	mg/kg	21.954	36.22%
As 197.197†	-4.3	-0.5368	mg/L	0.31201	-98.25	mg/kg	57.103	58.12%
B 208.889†	1.6	0.01241	mg/L	0.021921	2.272	mg/kg	4.0119	176.60%
B 249.677†	2.8	0.00889	mg/L	0.002695	1.627	mg/kg	0.4932	30.31%
B 249.772†	62.1	0.01058	mg/L	0.003443	1.937	mg/kg	0.6301	32.53%
Ba 233.527†	176.1	0.08554	mg/L	0.002694	15.65	mg/kg	0.493	3.15%
Ba 455.403†	10926.4	0.09439	mg/L	0.000559	17.27	mg/kg	0.102	0.59%
Ba 493.408†	10654.1	0.09385	mg/L	0.000661	17.18	mg/kg	0.121	0.70%
Be 234.861†	101.6	0.00055	mg/L	0.000668	0.1013	mg/kg	0.12219	120.66%
Be 313.042†	51.8	0.00062	mg/L	0.000056	0.1138	mg/kg	0.01021	8.97%
Be 313.107†	21.8	0.00061	mg/L	0.000146	0.1120	mg/kg	0.02667	23.82%
Ca 315.887†	169588.0	92.29	mg/L	0.544	16890	mg/kg	99.5	0.59%
Ca 317.933†	163956.8	87.23	mg/L	0.591	15970	mg/kg	108.2	0.68%
Cd 214.440†	6.0	0.00587	mg/L	0.002873	1.074	mg/kg	0.5259	48.97%
Cd 226.502†	8.1	0.01094	mg/L	0.002311	2.003	mg/kg	0.4230	21.12%
Cd 228.802†	6.5	0.00639	mg/L	0.000835	1.169	mg/kg	0.1529	13.08%
Ce 413.380†	62.0	0.03763	mg/L	0.013826	6.886	mg/kg	2.5304	36.75%
Ce 413.764†	87.8	0.06755	mg/L	0.003416	12.36	mg/kg	0.625	5.06%
Ce 418.660†	108.3	0.06713	mg/L	0.008587	12.29	mg/kg	1.571	12.79%
Co 228.616†	12.3	0.02127	mg/L	0.005696	3.893	mg/kg	1.0424	26.78%
Co 230.786†	14.9	0.02147	mg/L	0.004498	3.930	mg/kg	0.8232	20.95%
Co 238.892†	96.0	0.02732	mg/L	0.028108	5.000	mg/kg	5.1442	102.89%
Cr 205.560†	16.8	0.1328	mg/L	0.00536	24.30	mg/kg	0.981	4.04%
Cr 267.716†	110.0	0.1363	mg/L	0.00400	24.95	mg/kg	0.732	2.94%
Cr 283.563†	745.4	0.1259	mg/L	0.00328	23.05	mg/kg	0.600	2.60%
Cu 224.700†	39.0	0.1374	mg/L	0.00401	25.15	mg/kg	0.734	2.92%
Cu 324.752†	856.2	0.1420	mg/L	0.00243	26.00	mg/kg	0.444	1.71%
Cu 327.393†	399.3	0.1487	mg/L	0.00366	27.21	mg/kg	0.670	2.46%
Fe 238.204†	142572.7	93.77	mg/L	0.509	17160	mg/kg	93.2	0.54%
Fe 239.562†	81608.8	93.15	mg/L	0.611	17050	mg/kg	111.8	0.66%
Fe 259.939†	271713.9	93.63	mg/L	0.379	17140	mg/kg	69.4	0.41%
Fe 273.955†	43943.6	102.7	mg/L	0.87	18800	mg/kg	159.0	0.85%
K 766.490†	1319.5	0.9865	mg/L	0.01644	180.5	mg/kg	3.01	1.67%
Li 610.362†	1710.0	0.2856	mg/L	0.09936	52.27	mg/kg	18.184	34.79%
Li 670.784†	428.1	0.01268	mg/L	0.000643	2.321	mg/kg	0.1176	5.07%
Mg 279.077†	15049.5	48.05	mg/L	0.343	8794	mg/kg	62.9	0.71%
Mg 280.271†	2115835.4	44.66	mg/L	0.229	8173	mg/kg	41.9	0.51%
Mg 285.213†	183825.7	45.92	mg/L	0.273	8404	mg/kg	50.0	0.60%
Mn 257.610†	8929.8	0.7593	mg/L	0.00668	139.0	mg/kg	1.22	0.88%
Mn 259.372†	9429.1	0.7526	mg/L	0.00593	137.7	mg/kg	1.08	0.79%
Mn 260.568†	5644.3	0.7672	mg/L	0.00419	140.4	mg/kg	0.77	0.55%
Mo 202.031†	6.5	0.6203	mg/L	0.10693	113.5	mg/kg	19.57	17.24%
Mo 203.845†	3.9	0.1221	mg/L	0.02843	22.35	mg/kg	5.203	23.28%
Mo 204.597†	1.3	0.02097	mg/L	0.014366	3.837	mg/kg	2.6292	68.51%
Na 588.995†	1476.2	0.2535	mg/L	0.02121	46.39	mg/kg	3.882	8.37%
Na 589.592†	1490.5	0.3820	mg/L	0.00108	69.90	mg/kg	0.197	0.28%
Ni 221.648†	5.7	0.07780	mg/L	0.014971	14.24	mg/kg	2.740	19.24%
Ni 231.604†	29.1	0.09936	mg/L	0.003530	18.18	mg/kg	0.646	3.55%
Ni 232.003†	20.8	0.1163	mg/L	0.01817	21.29	mg/kg	3.325	15.62%
Pb 217.000†	22.7	0.9310	mg/L	0.03070	170.4	mg/kg	5.62	3.30%
Pb 220.353†	40.7	0.9221	mg/L	0.01503	168.8	mg/kg	2.75	1.63%
Sb 206.836†	0.1	-0.00689	mg/L	0.056279	-1.260	mg/kg	10.2999	817.17%
Sb 217.582†	0.6	0.03065	mg/L	0.067774	5.610	mg/kg	12.4038	221.12%
Sb 231.146†	-1.9	-0.1065	mg/L	0.10664	-19.50	mg/kg	19.517	100.11%
Se 196.026†	-2.9	-0.4333	mg/L	0.06745	-79.31	mg/kg	12.344	15.56%
Se 203.985†	1.4	0.1299	mg/L	0.09342	23.77	mg/kg	17.097	71.92%
Sn 189.927†	0.4	0.03859	mg/L	0.304265	7.062	mg/kg	55.6855	788.48%

Sn 235.485†	1297.8	-1.817	mg/L	0.1946	-332.5	mg/kg	35.62	10.71%
Sn 283.998†	-5.5	0.03538	mg/L	0.023188	6.475	mg/kg	4.2438	65.54%
Sr 407.771†	13883.4	0.04215	mg/L	0.000357	7.713	mg/kg	0.0653	0.85%
Sr 421.552†	6290.6	0.04245	mg/L	0.000247	7.770	mg/kg	0.0452	0.58%
Sr 460.733†	95.9	0.04086	mg/L	0.033179	7.479	mg/kg	6.0723	81.19%
Ti 334.940†	8374.4	0.4248	mg/L	0.00560	77.75	mg/kg	1.025	1.32%
Ti 336.121†	5861.1	0.4199	mg/L	0.00090	76.86	mg/kg	0.165	0.21%
Ti 337.279†	3082.1	0.4227	mg/L	0.00605	77.36	mg/kg	1.107	1.43%
Tl 190.801†	-0.4	-0.06282	mg/L	0.629266	-11.50	mg/kg	115.166	>999.9%
Tl 276.787†	194.1	0.9433	mg/L	0.05235	172.6	mg/kg	9.58	5.55%
Tl 351.924†	-8.3	-0.06036	mg/L	0.029198	-11.05	mg/kg	5.344	48.37%
V 290.880†	59.0	0.02706	mg/L	0.000757	4.953	mg/kg	0.1386	2.80%
V 309.310†	1291.7	0.04168	mg/L	0.001876	7.628	mg/kg	0.3433	4.50%
V 310.230†	269.5	0.03618	mg/L	0.002162	6.621	mg/kg	0.3956	5.97%
Zn 202.548†	351.8	1.301	mg/L	0.0242	238.2	mg/kg	4.42	1.86%
Zn 206.200†	402.7	1.324	mg/L	0.0198	242.4	mg/kg	3.62	1.49%
Zn 213.857†	644.5	1.353	mg/L	0.0194	247.7	mg/kg	3.55	1.43%

Sequence No.: 29 **Autosampler Location: 37**
Sample ID: b307012-dup3 **Date Collected: 8/19/03 1:01:19 PM**
Analyst:
Sample Wt: 0.5055 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:04:57 AM,**

Mean Data: b307012-dup3

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163517.3						2490.67	1.52%
Ag 328.068†	-1.6	0.00191	mg/L	0.000595	0.3780	mg/kg	0.11771	31.14%
Ag 338.289†	-13.8	0.00040	mg/L	0.001511	0.07819	mg/kg	0.298949	382.35%
Al 308.215†	4633.2	7.438	mg/L	0.1496	1471	mg/kg	29.6	2.01%
Al 394.401†	6375.2	7.633	mg/L	0.1105	1510	mg/kg	21.9	1.45%
Al 396.153†	14282.8	7.771	mg/L	0.1284	1537	mg/kg	25.4	1.65%
As 188.979†	2.5	0.2983	mg/L	0.10804	59.00	mg/kg	21.373	36.22%
As 193.696†	0.4	0.1144	mg/L	0.14882	22.63	mg/kg	29.440	130.12%
As 197.197†	-3.2	-0.3508	mg/L	0.33933	-69.41	mg/kg	67.127	96.72%
B 208.889†	4.5	0.06408	mg/L	0.034162	12.68	mg/kg	6.758	53.31%
B 249.677†	13.5	0.03360	mg/L	0.002781	6.646	mg/kg	0.5502	8.28%
B 249.772†	68.3	0.02143	mg/L	0.001472	4.239	mg/kg	0.2911	6.87%
Ba 233.527†	163.0	0.07926	mg/L	0.001781	15.68	mg/kg	0.352	2.25%
Ba 455.403†	10309.1	0.08907	mg/L	0.001833	17.62	mg/kg	0.363	2.06%
Ba 493.408†	10042.7	0.08850	mg/L	0.001050	17.51	mg/kg	0.208	1.19%
Be 234.861†	90.0	0.00026	mg/L	0.001022	0.05190	mg/kg	0.202109	389.40%
Be 313.042†	48.6	0.00058	mg/L	0.000098	0.1154	mg/kg	0.01942	16.83%
Be 313.107†	19.7	0.00055	mg/L	0.000035	0.1088	mg/kg	0.00686	6.31%
Ca 315.887†	157288.2	85.59	mg/L	0.316	16930	mg/kg	62.5	0.37%
Ca 317.933†	151922.2	80.83	mg/L	0.337	15990	mg/kg	66.6	0.42%
Cd 214.440†	6.2	0.00630	mg/L	0.001392	1.246	mg/kg	0.2754	22.11%
Cd 226.502†	3.8	0.00307	mg/L	0.001046	0.6070	mg/kg	0.20699	34.10%
Cd 228.802†	4.2	0.00581	mg/L	0.002956	1.149	mg/kg	0.5848	50.90%
Ce 413.380†	60.4	0.03775	mg/L	0.008774	7.468	mg/kg	1.7356	23.24%
Ce 413.764†	86.2	0.06676	mg/L	0.001557	13.21	mg/kg	0.308	2.33%
Ce 418.660†	105.6	0.06559	mg/L	0.019782	12.98	mg/kg	3.913	30.16%
Co 228.616†	12.7	0.02200	mg/L	0.003472	4.352	mg/kg	0.6869	15.78%
Co 230.786†	10.6	0.01451	mg/L	0.002862	2.870	mg/kg	0.5661	19.73%
Co 238.892†	90.4	0.02987	mg/L	0.006094	5.908	mg/kg	1.2054	20.40%
Cr 205.560†	14.8	0.1169	mg/L	0.01605	23.12	mg/kg	3.176	13.74%
Cr 267.716†	98.0	0.1216	mg/L	0.00243	24.05	mg/kg	0.480	2.00%
Cr 283.563†	681.3	0.1150	mg/L	0.00152	22.75	mg/kg	0.300	1.32%
Cu 224.700†	36.1	0.1276	mg/L	0.00776	25.24	mg/kg	1.536	6.08%
Cu 324.752†	759.9	0.1259	mg/L	0.00120	24.91	mg/kg	0.238	0.96%
Cu 327.393†	349.8	0.1300	mg/L	0.00379	25.71	mg/kg	0.749	2.91%
Fe 238.204†	128922.8	84.79	mg/L	0.237	16770	mg/kg	46.9	0.28%
Fe 239.562†	74687.8	85.25	mg/L	1.195	16860	mg/kg	236.4	1.40%
Fe 259.939†	246067.5	84.79	mg/L	0.321	16770	mg/kg	63.5	0.38%
Fe 273.955†	40233.6	94.07	mg/L	1.435	18610	mg/kg	283.9	1.53%
K 766.490†	1405.5	1.051	mg/L	0.0481	207.9	mg/kg	9.52	4.58%
Li 610.362†	745.0	0.1079	mg/L	0.09293	21.34	mg/kg	18.384	86.15%
Li 670.784†	217.0	0.00682	mg/L	0.003002	1.348	mg/kg	0.5939	44.05%

Mg 279.077†	13806.2	44.08	mg/L	0.487	8720 mg/kg	96.2	1.10%
Mg 280.271†	1932210.0	40.78	mg/L	0.136	8068 mg/kg	26.9	0.33%
Mg 285.213†	167133.7	41.75	mg/L	0.171	8259 mg/kg	33.8	0.41%
Mn 257.610†	8048.1	0.6842	mg/L	0.01003	135.4 mg/kg	1.98	1.47%
Mn 259.372†	8563.9	0.6826	mg/L	0.00932	135.0 mg/kg	1.84	1.37%
Mn 260.568†	5044.4	0.6855	mg/L	0.01325	135.6 mg/kg	2.62	1.93%
Mo 202.031†	6.8	0.6691	mg/L	0.16714	132.4 mg/kg	33.06	24.98%
Mo 203.845†	4.9	0.1570	mg/L	0.03544	31.06 mg/kg	7.011	22.57%
Mo 204.597†	1.6	0.02548	mg/L	0.006585	5.041 mg/kg	1.3027	25.84%
Na 588.995†	2366.6	0.4064	mg/L	0.06411	80.39 mg/kg	12.682	15.78%
Na 589.592†	1857.5	0.4760	mg/L	0.01544	94.16 mg/kg	3.054	3.24%
Ni 221.648†	7.7	0.1027	mg/L	0.01620	20.31 mg/kg	3.204	15.78%
Ni 231.604†	27.0	0.09228	mg/L	0.007623	18.26 mg/kg	1.508	8.26%
Ni 232.003†	13.0	0.07149	mg/L	0.015042	14.14 mg/kg	2.976	21.04%
Pb 217.000†	21.1	0.8680	mg/L	0.16798	171.7 mg/kg	33.23	19.35%
Pb 220.353†	34.0	0.7689	mg/L	0.05644	152.1 mg/kg	11.17	7.34%
Sb 206.836†	1.3	0.04628	mg/L	0.091426	9.155 mg/kg	18.0862	197.56%
Sb 217.582†	-1.1	-0.06256	mg/L	0.084978	-12.38 mg/kg	16.811	135.82%
Sb 231.146†	0.1	-0.00468	mg/L	0.047976	-0.9265 mg/kg	9.49085	>999.9%
Se 196.026†	-2.9	-0.4191	mg/L	0.07805	-82.91 mg/kg	15.441	18.62%
Se 203.985†	1.1	0.08553	mg/L	0.137730	16.92 mg/kg	27.246	161.03%
Sn 189.927†	2.1	0.2454	mg/L	0.05086	48.55 mg/kg	10.061	20.72%
Sn 235.485†	1173.3	-2.050	mg/L	0.0987	-405.6 mg/kg	19.53	4.81%
Sn 283.998†	-5.1	0.03494	mg/L	0.018147	6.912 mg/kg	3.5898	51.94%
Sr 407.771†	12947.2	0.03930	mg/L	0.000421	7.774 mg/kg	0.0834	1.07%
Sr 421.552†	5879.0	0.03968	mg/L	0.000443	7.849 mg/kg	0.0876	1.12%
Sr 460.733†	48.3	0.01792	mg/L	0.013069	3.546 mg/kg	2.5853	72.91%
Ti 334.940†	10357.6	0.5247	mg/L	0.00853	103.8 mg/kg	1.69	1.62%
Ti 336.121†	7318.5	0.5251	mg/L	0.00833	103.9 mg/kg	1.65	1.59%
Ti 337.279†	3766.8	0.5168	mg/L	0.00615	102.2 mg/kg	1.22	1.19%
Tl 190.801†	-0.2	-0.03950	mg/L	0.332451	-7.814 mg/kg	65.7667	841.61%
Tl 276.787†	182.3	0.9112	mg/L	0.06683	180.3 mg/kg	13.22	7.33%
Tl 351.924†	0.7	-0.00205	mg/L	0.034855	-0.4052 mg/kg	6.89513	>999.9%
V 290.880†	39.3	0.01960	mg/L	0.004632	3.878 mg/kg	0.9164	23.63%
V 309.310†	1207.5	0.04176	mg/L	0.000915	8.262 mg/kg	0.1810	2.19%
V 310.230†	236.0	0.03166	mg/L	0.003017	6.263 mg/kg	0.5967	9.53%
Zn 202.548†	310.2	1.147	mg/L	0.0080	227.0 mg/kg	1.58	0.70%
Zn 206.200†	355.5	1.169	mg/L	0.0141	231.3 mg/kg	2.79	1.21%
Zn 213.857†	568.3	1.193	mg/L	0.0155	236.0 mg/kg	3.06	1.30%

Sequence No.: 30 **Autosampler Location: 39**
Sample ID: b307012-ms3 **Date Collected: 8/19/03 1:05:13 PM**
Analyst:
Sample Wt: 0.5067 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:05:02 AM,**

Mean Data: b307012-ms3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	172395.6						2913.73	1.69%
Ag 328.068†	405.3	0.08473	mg/L	0.001445	16.72	mg/kg	0.285	1.71%
Ag 338.289†	213.9	0.08365	mg/L	0.002982	16.51	mg/kg	0.589	3.56%
Al 308.215†	5763.2	9.235	mg/L	0.1587	1823	mg/kg	31.3	1.72%
Al 394.401†	7900.9	9.453	mg/L	0.1832	1866	mg/kg	36.2	1.94%
Al 396.153†	17860.6	9.689	mg/L	0.1637	1912	mg/kg	32.3	1.69%
As 188.979†	3.6	0.4585	mg/L	0.16380	90.48	mg/kg	32.326	35.73%
As 193.696†	0.1	0.04603	mg/L	0.161629	9.084	mg/kg	31.8983	351.15%
As 197.197†	-2.2	-0.1574	mg/L	0.28218	-31.05	mg/kg	55.690	179.33%
B 208.889†	55.9	0.9456	mg/L	0.06143	186.6	mg/kg	12.12	6.50%
B 249.677†	405.6	0.9427	mg/L	0.01473	186.1	mg/kg	2.91	1.56%
B 249.772†	966.8	0.9400	mg/L	0.01592	185.5	mg/kg	3.14	1.69%
Ba 233.527†	987.6	0.5213	mg/L	0.00638	102.9	mg/kg	1.26	1.22%
Ba 455.403†	65464.0	0.5668	mg/L	0.00841	111.9	mg/kg	1.66	1.48%
Ba 493.408†	62496.8	0.5555	mg/L	0.00188	109.6	mg/kg	0.37	0.34%
Be 234.861†	669.3	0.04727	mg/L	0.000932	9.328	mg/kg	0.1839	1.97%
Be 313.042†	2968.0	0.04453	mg/L	0.000674	8.787	mg/kg	0.1330	1.51%
Be 313.107†	1561.6	0.04445	mg/L	0.000642	8.773	mg/kg	0.1267	1.44%
Ca 315.887†	175134.3	95.30	mg/L	0.162	18810	mg/kg	32.0	0.17%
Ca 317.933†	169215.2	90.03	mg/L	0.161	17770	mg/kg	31.8	0.18%

Cd 214.440†	79.8	0.09482 mg/L	0.000215	18.71 mg/kg	0.042	0.23%
Cd 226.502†	49.3	0.09036 mg/L	0.005331	17.83 mg/kg	1.052	5.90%
Cd 228.802†	68.9	0.09190 mg/L	0.004508	18.14 mg/kg	0.890	4.91%
Ce 413.380†	69.4	0.04555 mg/L	0.006259	8.990 mg/kg	1.2353	13.74%
Ce 413.764†	75.9	0.05704 mg/L	0.008117	11.26 mg/kg	1.602	14.23%
Ce 418.660†	94.7	0.05856 mg/L	0.008581	11.56 mg/kg	1.694	14.65%
Co 228.616†	238.8	0.4331 mg/L	0.00253	85.48 mg/kg	0.498	0.58%
Co 230.786†	261.5	0.4361 mg/L	0.00970	86.07 mg/kg	1.915	2.22%
Co 238.892†	294.7	0.4367 mg/L	0.02263	86.18 mg/kg	4.466	5.18%
Cr 205.560†	74.4	0.5889 mg/L	0.00916	116.2 mg/kg	1.81	1.56%
Cr 267.716†	474.0	0.5780 mg/L	0.01137	114.1 mg/kg	2.24	1.97%
Cr 283.563†	2673.7	0.5763 mg/L	0.00928	113.7 mg/kg	1.83	1.61%
Cu 224.700†	145.4	0.5526 mg/L	0.01346	109.1 mg/kg	2.66	2.44%
Cu 324.752†	3332.8	0.5573 mg/L	0.00787	110.0 mg/kg	1.55	1.41%
Cu 327.393†	1491.9	0.5619 mg/L	0.00716	110.9 mg/kg	1.41	1.28%
Fe 238.204†	130238.0	85.66 mg/L	0.140	16910 mg/kg	27.7	0.16%
Fe 239.562†	75220.1	85.86 mg/L	1.296	16950 mg/kg	255.8	1.51%
Fe 259.939†	248322.3	85.58 mg/L	0.131	16890 mg/kg	25.9	0.15%
Fe 273.955†	40451.4	94.58 mg/L	1.338	18670 mg/kg	264.0	1.41%
K 766.490†	2075.9	1.552 mg/L	0.0619	306.3 mg/kg	12.21	3.99%
Li 610.362†	2191.0	0.3660 mg/L	0.14692	72.23 mg/kg	28.995	40.14%
Li 670.784†	17628.1	0.4842 mg/L	0.00892	95.56 mg/kg	1.760	1.84%
Mg 279.077†	15367.4	49.07 mg/L	0.899	9684 mg/kg	177.5	1.83%
Mg 280.271†	2128341.3	44.92 mg/L	0.124	8866 mg/kg	24.4	0.28%
Mg 285.213†	184652.5	46.13 mg/L	0.138	9103 mg/kg	27.1	0.30%
Mn 257.610†	31196.7	2.658 mg/L	0.0376	524.6 mg/kg	7.42	1.41%
Mn 259.372†	29933.3	2.649 mg/L	0.0337	522.7 mg/kg	6.65	1.27%
Mn 260.568†	19470.7	2.661 mg/L	0.0308	525.1 mg/kg	6.09	1.16%
Mo 202.031†	13.8	1.469 mg/L	0.3173	289.9 mg/kg	62.62	21.60%
Mo 203.845†	29.5	0.9845 mg/L	0.00785	194.3 mg/kg	1.55	0.80%
Mo 204.597†	51.1	0.8854 mg/L	0.03286	174.7 mg/kg	6.49	3.71%
Na 588.995†	3879.3	0.6661 mg/L	0.06787	131.5 mg/kg	13.39	10.19%
Na 589.592†	2675.4	0.6856 mg/L	0.00969	135.3 mg/kg	1.91	1.41%
Ni 221.648†	40.1	0.5138 mg/L	0.00926	101.4 mg/kg	1.83	1.80%
Ni 231.604†	149.2	0.5155 mg/L	0.00862	101.7 mg/kg	1.70	1.67%
Ni 232.003†	92.7	0.5079 mg/L	0.03730	100.2 mg/kg	7.36	7.34%
Pb 217.000†	37.8	1.651 mg/L	0.1203	325.9 mg/kg	23.75	7.29%
Pb 220.353†	71.3	1.630 mg/L	0.0365	321.7 mg/kg	7.20	2.24%
Sb 206.836†	2.0	0.06835 mg/L	0.026335	13.49 mg/kg	5.197	38.53%
Sb 217.582†	-2.2	-0.1255 mg/L	0.08153	-24.76 mg/kg	16.091	64.99%
Sb 231.146†	0.4	-0.04331 mg/L	0.028403	-8.548 mg/kg	5.6055	65.58%
Se 196.026†	-3.5	-0.5198 mg/L	0.41114	-102.6 mg/kg	81.14	79.10%
Se 203.985†	0.9	-0.00970 mg/L	0.078516	-1.915 mg/kg	15.4956	809.26%
Sn 189.927†	10.0	1.197 mg/L	0.1309	236.2 mg/kg	25.84	10.94%
Sn 235.485†	1210.9	-1.215 mg/L	0.5848	-239.7 mg/kg	115.41	48.14%
Sn 283.998†	204.1	0.4378 mg/L	0.00771	86.40 mg/kg	1.521	1.76%
Sr 407.771†	309633.7	0.9838 mg/L	0.00212	194.2 mg/kg	0.42	0.22%
Sr 421.552†	139101.6	0.9870 mg/L	0.00253	194.8 mg/kg	0.50	0.26%
Sr 460.733†	2063.1	1.009 mg/L	0.0118	199.2 mg/kg	2.33	1.17%
Ti 334.940†	9147.5	0.4637 mg/L	0.00754	91.52 mg/kg	1.489	1.63%
Ti 336.121†	6480.9	0.4644 mg/L	0.00677	91.65 mg/kg	1.336	1.46%
Ti 337.279†	3315.6	0.4548 mg/L	0.00449	89.75 mg/kg	0.886	0.99%
Tl 190.801†	-0.3	-0.05996 mg/L	0.333415	-11.83 mg/kg	65.801	556.10%
Tl 276.787†	194.8	0.9005 mg/L	0.04900	177.7 mg/kg	9.67	5.44%
Tl 351.924†	-6.1	-0.04554 mg/L	0.027054	-8.987 mg/kg	5.3392	59.41%
V 290.880†	1267.8	0.4541 mg/L	0.01071	89.62 mg/kg	2.115	2.36%
V 309.310†	4064.5	0.4777 mg/L	0.00628	94.28 mg/kg	1.240	1.31%
V 310.230†	3371.7	0.4606 mg/L	0.00883	90.89 mg/kg	1.743	1.92%
Zn 202.548†	552.2	2.043 mg/L	0.0317	403.3 mg/kg	6.26	1.55%
Zn 206.200†	630.8	2.074 mg/L	0.0331	409.3 mg/kg	6.54	1.60%
Zn 213.857†	998.2	2.101 mg/L	0.0446	414.7 mg/kg	8.81	2.12%

Sequence No.: 31
Sample ID: b307012-ms7
Analyst:
Sample Wt: 0.5122 g
Dilution: 1X

Autosampler Location: 41
Date Collected: 8/19/03 1:09:01 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:05:08 AM,

Mean Data: b307012-ms7

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162894.4						869.92	0.53%
Ag 328.068†	1.9	0.00189	mg/L	0.001212	0.3697	mg/kg	0.23656	63.99%
Ag 338.289†	-17.5	-0.00004	mg/L	0.004207	-0.00870	mg/kg	0.821441	>999.9%
Al 308.215†	5369.4	8.603	mg/L	0.0355	1680	mg/kg	6.9	0.41%
Al 394.401†	7353.4	8.801	mg/L	0.0645	1718	mg/kg	12.6	0.73%
Al 396.153†	16516.5	8.985	mg/L	0.0676	1754	mg/kg	13.2	0.75%
As 188.979†	2.1	0.2145	mg/L	0.24923	41.87	mg/kg	48.658	116.21%
As 193.696†	0.6	0.1436	mg/L	0.14573	28.03	mg/kg	28.452	101.51%
As 197.197†	-3.7	-0.4162	mg/L	0.06037	-81.26	mg/kg	11.786	14.50%
B 208.889†	58.9	0.9872	mg/L	0.05828	192.7	mg/kg	11.38	5.90%
B 249.677†	419.8	0.9760	mg/L	0.00533	190.5	mg/kg	1.04	0.55%
B 249.772†	1012.3	0.9811	mg/L	0.00377	191.5	mg/kg	0.74	0.38%
Ba 233.527†	8672.7	4.635	mg/L	0.0338	904.8	mg/kg	6.60	0.73%
Ba 455.403†	581174.7	5.035	mg/L	0.0065	983.0	mg/kg	1.28	0.13%
Ba 493.408†	561272.0	4.997	mg/L	0.0073	975.5	mg/kg	1.42	0.15%
Be 234.861†	739.0	0.05193	mg/L	0.001358	10.14	mg/kg	0.265	2.62%
Be 313.042†	3358.8	0.05040	mg/L	0.000095	9.840	mg/kg	0.0185	0.19%
Be 313.107†	1758.5	0.05010	mg/L	0.000426	9.781	mg/kg	0.0831	0.85%
Ca 315.887†	177883.9	96.79	mg/L	0.208	18900	mg/kg	40.7	0.22%
Ca 317.933†	171949.0	91.47	mg/L	0.225	17860	mg/kg	43.9	0.25%
Cd 214.440†	760.5	0.9126	mg/L	0.00563	178.2	mg/kg	1.10	0.62%
Cd 226.502†	479.0	0.9110	mg/L	0.00196	177.9	mg/kg	0.38	0.21%
Cd 228.802†	676.1	0.8918	mg/L	0.00489	174.1	mg/kg	0.96	0.55%
Ce 413.380†	38.3	0.01318	mg/L	0.038019	2.573	mg/kg	7.4227	288.43%
Ce 413.764†	76.8	0.05557	mg/L	0.005709	10.85	mg/kg	1.115	10.27%
Ce 418.660†	84.8	0.04943	mg/L	0.005062	9.650	mg/kg	0.9884	10.24%
Co 228.616†	255.2	0.4602	mg/L	0.00889	89.85	mg/kg	1.736	1.93%
Co 230.786†	277.9	0.4603	mg/L	0.00322	89.87	mg/kg	0.629	0.70%
Co 238.892†	318.6	0.4617	mg/L	0.02385	90.14	mg/kg	4.657	5.17%
Cr 205.560†	606.8	4.811	mg/L	0.0114	939.2	mg/kg	2.23	0.24%
Cr 267.716†	3941.5	4.800	mg/L	0.0168	937.1	mg/kg	3.28	0.35%
Cr 283.563†	21060.9	4.830	mg/L	0.0388	943.1	mg/kg	7.57	0.80%
Cu 224.700†	1181.1	4.625	mg/L	0.0176	902.9	mg/kg	3.44	0.38%
Cu 324.752†	27806.8	4.684	mg/L	0.0364	914.4	mg/kg	7.10	0.78%
Cu 327.393†	12219.8	4.641	mg/L	0.0265	906.1	mg/kg	5.17	0.57%
Fe 238.204†	150154.8	98.78	mg/L	0.124	19280	mg/kg	24.1	0.13%
Fe 239.562†	86352.3	98.58	mg/L	0.348	19250	mg/kg	68.0	0.35%
Fe 259.939†	286727.4	98.82	mg/L	0.290	19290	mg/kg	56.7	0.29%
Fe 273.955†	45696.0	106.9	mg/L	0.78	20860	mg/kg	151.7	0.73%
K 766.490†	1623.4	1.214	mg/L	0.0748	237.0	mg/kg	14.61	6.16%
Li 610.362†	3763.3	0.6221	mg/L	0.06522	121.5	mg/kg	12.73	10.48%
Li 670.784†	18448.1	0.5076	mg/L	0.00139	99.11	mg/kg	0.272	0.27%
Mg 279.077†	15131.4	48.30	mg/L	0.235	9430	mg/kg	45.9	0.49%
Mg 280.271†	2161505.5	45.62	mg/L	0.120	8907	mg/kg	23.4	0.26%
Mg 285.213†	187502.3	46.84	mg/L	0.060	9144	mg/kg	11.7	0.13%
Mn 257.610†	121867.9	10.39	mg/L	0.041	2029	mg/kg	8.1	0.40%
Mn 259.372†	113920.5	10.39	mg/L	0.013	2028	mg/kg	2.6	0.13%
Mn 260.568†	75072.2	10.27	mg/L	0.077	2006	mg/kg	14.9	0.75%
Mo 202.031†	4.6	0.3987	mg/L	0.26303	77.85	mg/kg	51.353	65.97%
Mo 203.845†	5.1	0.1661	mg/L	0.07577	32.42	mg/kg	14.792	45.63%
Mo 204.597†	2.1	0.03100	mg/L	0.004475	6.053	mg/kg	0.8736	14.43%
Na 588.995†	3046.2	0.5231	mg/L	0.02317	102.1	mg/kg	4.52	4.43%
Na 589.592†	2258.4	0.5787	mg/L	0.03460	113.0	mg/kg	6.76	5.98%
Ni 221.648†	152.3	1.934	mg/L	0.0244	377.6	mg/kg	4.77	1.26%
Ni 231.604†	554.2	1.918	mg/L	0.0053	374.4	mg/kg	1.03	0.28%
Ni 232.003†	380.5	1.976	mg/L	0.0092	385.9	mg/kg	1.80	0.47%
Pb 217.000†	117.1	5.404	mg/L	0.0966	1055	mg/kg	18.9	1.79%
Pb 220.353†	235.2	5.428	mg/L	0.0618	1060	mg/kg	12.1	1.14%
Sb 206.836†	1.7	-0.02137	mg/L	0.026011	-4.173	mg/kg	5.0783	121.70%
Sb 217.582†	-0.5	-0.03478	mg/L	0.103819	-6.790	mg/kg	20.2692	298.50%
Sb 231.146†	1.5	-0.00386	mg/L	0.094862	-0.7537	mg/kg	18.52055	>999.9%
Se 196.026†	-4.3	-0.6700	mg/L	0.51040	-130.8	mg/kg	99.65	76.18%
Se 203.985†	5.7	0.06195	mg/L	0.110678	12.10	mg/kg	21.608	178.65%
Sn 189.927†	2.6	0.3013	mg/L	0.06521	58.82	mg/kg	12.732	21.64%
Sn 235.485†	1337.8	-2.178	mg/L	0.3330	-425.2	mg/kg	65.01	15.29%
Sn 283.998†	689.9	0.01419	mg/L	0.029818	2.771	mg/kg	5.8216	210.09%
Sr 407.771†	331280.9	1.053	mg/L	0.0015	205.5	mg/kg	0.29	0.14%
Sr 421.552†	148768.0	1.056	mg/L	0.0025	206.1	mg/kg	0.48	0.23%
Sr 460.733†	2181.2	1.071	mg/L	0.0385	209.0	mg/kg	7.52	3.60%

Ti 334.940†	10575.6	0.5345	mg/L	0.00472	104.3	mg/kg	0.92	0.88%
Ti 336.121†	7420.6	0.5319	mg/L	0.00285	103.9	mg/kg	0.56	0.54%
Ti 337.279†	3895.0	0.5343	mg/L	0.00271	104.3	mg/kg	0.53	0.51%
Tl 190.801†	0.1	-0.00035	mg/L	0.061287	-0.06905	mg/kg	11.965505	>999.9%
Tl 276.787†	215.5	0.9737	mg/L	0.03513	190.1	mg/kg	6.86	3.61%
Tl 351.924†	-10.9	-0.07817	mg/L	0.050284	-15.26	mg/kg	9.817	64.33%
V 290.880†	1360.8	0.4870	mg/L	0.00158	95.08	mg/kg	0.308	0.32%
V 309.310†	4223.9	0.5069	mg/L	0.00503	98.97	mg/kg	0.982	0.99%
V 310.230†	3635.9	0.4961	mg/L	0.01075	96.86	mg/kg	2.099	2.17%
Zn 202.548†	2709.7	10.03	mg/L	0.018	1958	mg/kg	3.5	0.18%
Zn 206.200†	3109.9	10.21	mg/L	0.054	1994	mg/kg	10.5	0.53%
Zn 213.857†	4898.9	10.35	mg/L	0.178	2021	mg/kg	34.7	1.72%

Sequence No.: 32 **Autosampler Location: 43**
Sample ID: 0305007-17 **Date Collected: 8/19/03 1:12:52 PM**
Analyst:
Sample Wt: 0.5498 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:05:14 AM,**

Mean Data: 0305007-17

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	164964.7						3558.19	2.16%
Ag 328.068†	10.2	0.00530	mg/L	0.001257	0.9645	mg/kg	0.22856	23.70%
Ag 338.289†	-66.3	0.00306	mg/L	0.003249	0.5563	mg/kg	0.59088	106.22%
Al 308.215†	12854.7	20.67	mg/L	0.411	3759	mg/kg	74.7	1.99%
Al 394.401†	17701.7	21.17	mg/L	0.524	3850	mg/kg	95.3	2.47%
Al 396.153†	39416.2	21.47	mg/L	0.550	3905	mg/kg	100.0	2.56%
As 188.979†	4.5	0.6111	mg/L	0.13745	111.1	mg/kg	25.00	22.49%
As 193.696†	2.0	0.4238	mg/L	0.15361	77.09	mg/kg	27.939	36.24%
As 197.197†	-0.9	0.06110	mg/L	0.247118	11.11	mg/kg	44.947	404.43%
B 208.889†	4.6	0.04930	mg/L	0.017309	8.967	mg/kg	3.1483	35.11%
B 249.677†	18.3	0.05364	mg/L	0.007870	9.757	mg/kg	1.4314	14.67%
B 249.772†	251.7	0.03493	mg/L	0.007154	6.354	mg/kg	1.3012	20.48%
Ba 233.527†	808.1	0.3969	mg/L	0.01155	72.20	mg/kg	2.101	2.91%
Ba 455.403†	51616.2	0.4467	mg/L	0.01049	81.26	mg/kg	1.908	2.35%
Ba 493.408†	50191.5	0.4434	mg/L	0.01068	80.65	mg/kg	1.942	2.41%
Be 234.861†	404.7	0.00124	mg/L	0.000603	0.2259	mg/kg	0.10971	48.57%
Be 313.042†	181.2	0.00253	mg/L	0.000105	0.4602	mg/kg	0.01910	4.15%
Be 313.107†	93.8	0.00266	mg/L	0.000134	0.4841	mg/kg	0.02430	5.02%
Ca 315.887†	143144.7	77.90	mg/L	0.592	14170	mg/kg	107.7	0.76%
Ca 317.933†	138253.7	73.56	mg/L	0.552	13380	mg/kg	100.3	0.75%
Cd 214.440†	107.1	0.1247	mg/L	0.00555	22.68	mg/kg	1.010	4.45%
Cd 226.502†	81.5	0.1281	mg/L	0.00930	23.30	mg/kg	1.692	7.26%
Cd 228.802†	92.4	0.1233	mg/L	0.00332	22.42	mg/kg	0.604	2.69%
Ce 413.380†	137.6	0.04474	mg/L	0.021211	8.138	mg/kg	3.8580	47.41%
Ce 413.764†	102.0	0.06520	mg/L	0.015505	11.86	mg/kg	2.820	23.78%
Ce 418.660†	183.9	0.1018	mg/L	0.03111	18.52	mg/kg	5.659	30.55%
Co 228.616†	19.0	0.02747	mg/L	0.008246	4.997	mg/kg	1.4997	30.01%
Co 230.786†	28.0	0.03325	mg/L	0.010510	6.048	mg/kg	1.9116	31.61%
Co 238.892†	380.6	0.08109	mg/L	0.017485	14.75	mg/kg	3.180	21.56%
Cr 205.560†	254.4	2.022	mg/L	0.0935	367.7	mg/kg	17.01	4.63%
Cr 267.716†	1643.7	2.015	mg/L	0.0426	366.5	mg/kg	7.74	2.11%
Cr 283.563†	9545.9	2.015	mg/L	0.0509	366.5	mg/kg	9.26	2.53%
Cu 224.700†	449.0	1.712	mg/L	0.0610	311.3	mg/kg	11.10	3.56%
Cu 324.752†	10511.6	1.765	mg/L	0.0372	321.1	mg/kg	6.77	2.11%
Cu 327.393†	4614.0	1.750	mg/L	0.0442	318.3	mg/kg	8.03	2.52%
Fe 238.204†	569957.0	374.8	mg/L	3.33	68180	mg/kg	606.4	0.89%
Fe 239.562†	331989.0	378.9	mg/L	3.24	68920	mg/kg	588.6	0.85%
Fe 259.939†	1097175.2	378.1	mg/L	2.96	68760	mg/kg	538.5	0.78%
Fe 273.955†	181650.0	424.7	mg/L	3.25	77240	mg/kg	590.8	0.76%
K 766.490†	2163.4	1.617	mg/L	0.0539	294.2	mg/kg	9.81	3.33%
Li 610.362†	135.7	-0.03590	mg/L	0.089528	-6.530	mg/kg	16.2837	249.38%
Li 670.784†	430.7	0.01360	mg/L	0.001436	2.474	mg/kg	0.2611	10.56%
Mg 279.077†	10663.8	33.93	mg/L	0.811	6172	mg/kg	147.5	2.39%
Mg 280.271†	1526901.7	32.20	mg/L	0.245	5856	mg/kg	44.5	0.76%
Mg 285.213†	132093.0	32.97	mg/L	0.256	5996	mg/kg	46.5	0.78%
Mn 257.610†	28430.8	2.418	mg/L	0.0555	439.8	mg/kg	10.10	2.30%
Mn 259.372†	31200.3	2.397	mg/L	0.0625	436.0	mg/kg	11.37	2.61%

Mn 260.568†	17853.2	2.424	mg/L	0.0518	440.9	mg/kg	9.43	2.14%
Mo 202.031†	6.0	0.5569	mg/L	0.12159	101.3	mg/kg	22.11	21.83%
Mo 203.845†	6.8	0.1642	mg/L	0.02689	29.86	mg/kg	4.891	16.38%
Mo 204.597†	4.1	0.06078	mg/L	0.012186	11.06	mg/kg	2.216	20.05%
Na 588.995†	3697.3	0.6349	mg/L	0.05170	115.5	mg/kg	9.40	8.14%
Na 589.592†	2302.1	0.5899	mg/L	0.01032	107.3	mg/kg	1.88	1.75%
Ni 221.648†	39.8	0.5039	mg/L	0.04420	91.66	mg/kg	8.040	8.77%
Ni 231.604†	151.0	0.5178	mg/L	0.01129	94.19	mg/kg	2.053	2.18%
Ni 232.003†	108.0	0.5210	mg/L	0.00481	94.75	mg/kg	0.874	0.92%
Pb 217.000†	96.0	4.062	mg/L	0.1616	738.8	mg/kg	29.40	3.98%
Pb 220.353†	170.6	4.004	mg/L	0.1169	728.3	mg/kg	21.27	2.92%
Sb 206.836†	3.0	0.1040	mg/L	0.09330	18.92	mg/kg	16.970	89.70%
Sb 217.582†	2.4	-0.00990	mg/L	0.086420	-1.801	mg/kg	15.7184	872.91%
Sb 231.146†	2.4	0.07604	mg/L	0.085004	13.83	mg/kg	15.461	111.79%
Se 196.026†	-3.2	-0.5181	mg/L	0.38241	-94.23	mg/kg	69.554	73.81%
Se 203.985†	4.1	0.1176	mg/L	0.20175	21.39	mg/kg	36.695	171.53%
Sn 189.927†	22.9	2.773	mg/L	0.2772	504.4	mg/kg	50.43	10.00%
Sn 235.485†	5398.5	-6.638	mg/L	2.7458	-1207	mg/kg	499.4	41.37%
Sn 283.998†	625.7	1.287	mg/L	0.0416	234.1	mg/kg	7.57	3.23%
Sr 407.771†	31712.1	0.09949	mg/L	0.002519	18.10	mg/kg	0.458	2.53%
Sr 421.552†	14404.6	0.1001	mg/L	0.00243	18.20	mg/kg	0.442	2.43%
Sr 460.733†	195.4	0.08873	mg/L	0.024355	16.14	mg/kg	4.430	27.45%
Ti 334.940†	15449.2	0.7808	mg/L	0.01810	142.0	mg/kg	3.29	2.32%
Ti 336.121†	10826.4	0.7778	mg/L	0.02026	141.5	mg/kg	3.69	2.61%
Ti 337.279†	5717.5	0.7839	mg/L	0.01584	142.6	mg/kg	2.88	2.02%
Tl 190.801†	1.7	0.2721	mg/L	0.18440	49.49	mg/kg	33.539	67.78%
Tl 276.787†	168.3	0.8071	mg/L	0.32237	146.8	mg/kg	58.63	39.94%
Tl 351.924†	0.1	-0.01870	mg/L	0.049818	-3.401	mg/kg	9.0612	266.44%
V 290.880†	293.4	0.08802	mg/L	0.006770	16.01	mg/kg	1.231	7.69%
V 309.310†	1374.2	0.1102	mg/L	0.00025	20.04	mg/kg	0.045	0.23%
V 310.230†	683.9	0.09334	mg/L	0.007603	16.98	mg/kg	1.383	8.15%
Zn 202.548†	2946.5	10.92	mg/L	0.246	1986	mg/kg	44.7	2.25%
Zn 206.200†	3367.9	11.06	mg/L	0.228	2012	mg/kg	41.5	2.06%
Zn 213.857†	5333.2	11.26	mg/L	0.176	2048	mg/kg	32.0	1.56%

==========

Sequence No.: 33 **Autosampler Location: 45**
Sample ID: 0305007-18 **Date Collected: 8/19/03 1:16:45 PM**
Analyst:
Sample Wt: 0.5395 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:05:20 AM,**

Mean Data: 0305007-18

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	162641.3						1747.75	1.07%
Ag 328.068†	19.0	0.00672	mg/L	0.001662	1.245	mg/kg	0.3081	24.74%
Ag 338.289†	-33.2	0.00184	mg/L	0.003129	0.3417	mg/kg	0.57993	169.72%
Al 308.215†	6697.9	10.75	mg/L	0.008	1993	mg/kg	1.5	0.08%
Al 394.401†	9254.0	11.09	mg/L	0.015	2056	mg/kg	2.7	0.13%
Al 396.153†	20785.2	11.31	mg/L	0.030	2096	mg/kg	5.6	0.27%
As 188.979†	3.5	0.4199	mg/L	0.40325	77.84	mg/kg	74.745	96.03%
As 193.696†	1.2	0.2928	mg/L	0.45760	54.27	mg/kg	84.820	156.30%
As 197.197†	-3.9	-0.3491	mg/L	0.07373	-64.71	mg/kg	13.665	21.12%
B 208.889†	6.0	0.07606	mg/L	0.029667	14.10	mg/kg	5.499	39.00%
B 249.677†	17.6	0.04665	mg/L	0.008068	8.648	mg/kg	1.4955	17.29%
B 249.772†	142.7	0.02796	mg/L	0.001226	5.182	mg/kg	0.2272	4.39%
Ba 233.527†	268.3	0.1244	mg/L	0.00258	23.06	mg/kg	0.478	2.07%
Ba 455.403†	16262.0	0.1405	mg/L	0.00044	26.04	mg/kg	0.081	0.31%
Ba 493.408†	15928.4	0.1398	mg/L	0.00077	25.91	mg/kg	0.143	0.55%
Be 234.861†	237.9	0.00233	mg/L	0.000884	0.4317	mg/kg	0.16393	37.97%
Be 313.042†	99.2	0.00126	mg/L	0.000022	0.2327	mg/kg	0.00416	1.79%
Be 313.107†	47.2	0.00133	mg/L	0.000063	0.2467	mg/kg	0.01175	4.76%
Ca 315.887†	248803.9	135.4	mg/L	0.49	25100	mg/kg	91.0	0.36%
Ca 317.933†	242018.0	128.8	mg/L	0.91	23870	mg/kg	168.9	0.71%
Cd 214.440†	14.3	0.01434	mg/L	0.003874	2.657	mg/kg	0.7181	27.02%
Cd 226.502†	14.8	0.01633	mg/L	0.004102	3.027	mg/kg	0.7603	25.12%
Cd 228.802†	9.9	0.01336	mg/L	0.003204	2.477	mg/kg	0.5938	23.97%
Ce 413.380†	127.7	0.07418	mg/L	0.005635	13.75	mg/kg	1.045	7.60%
Ce 413.764†	94.1	0.06653	mg/L	0.010904	12.33	mg/kg	2.021	16.39%

Ce 418.660†	106.6	0.06179	mg/L	0.009401	11.45	mg/kg	1.743	15.21%
Co 228.616†	23.2	0.03935	mg/L	0.004723	7.294	mg/kg	0.8754	12.00%
Co 230.786†	30.3	0.04319	mg/L	0.001187	8.005	mg/kg	0.2201	2.75%
Co 238.892†	195.0	0.02573	mg/L	0.039765	4.769	mg/kg	7.3707	154.56%
Cr 205.560†	50.6	0.4020	mg/L	0.00871	74.51	mg/kg	1.614	2.17%
Cr 267.716†	328.9	0.4058	mg/L	0.00764	75.22	mg/kg	1.416	1.88%
Cr 283.563†	2148.3	0.3933	mg/L	0.00804	72.90	mg/kg	1.490	2.04%
Cu 224.700†	110.5	0.4018	mg/L	0.01075	74.48	mg/kg	1.993	2.68%
Cu 324.752†	2411.0	0.4013	mg/L	0.00635	74.39	mg/kg	1.177	1.58%
Cu 327.393†	1083.6	0.4065	mg/L	0.00937	75.34	mg/kg	1.737	2.31%
Fe 238.204†	314443.6	206.8	mg/L	1.56	38330	mg/kg	289.2	0.75%
Fe 239.562†	179116.9	204.4	mg/L	0.94	37890	mg/kg	174.0	0.46%
Fe 259.939†	601946.4	207.4	mg/L	1.58	38450	mg/kg	292.5	0.76%
Fe 273.955†	97239.9	227.3	mg/L	0.87	42140	mg/kg	161.1	0.38%
K 766.490†	1188.6	0.8886	mg/L	0.03518	164.7	mg/kg	6.52	3.96%
Li 610.362†	923.2	0.1159	mg/L	0.10206	21.48	mg/kg	18.917	88.06%
Li 670.784†	195.7	0.00693	mg/L	0.001026	1.285	mg/kg	0.1903	14.81%
Mg 279.077†	19838.2	63.31	mg/L	0.388	11730	mg/kg	71.9	0.61%
Mg 280.271†	2785276.5	58.78	mg/L	0.402	10900	mg/kg	74.5	0.68%
Mg 285.213†	243583.6	60.84	mg/L	0.527	11280	mg/kg	97.6	0.87%
Mn 257.610†	19751.7	1.680	mg/L	0.0047	311.4	mg/kg	0.87	0.28%
Mn 259.372†	20901.8	1.670	mg/L	0.0063	309.5	mg/kg	1.17	0.38%
Mn 260.568†	12437.2	1.691	mg/L	0.0052	313.5	mg/kg	0.97	0.31%
Mo 202.031†	6.8	0.5993	mg/L	0.19110	111.1	mg/kg	35.42	31.89%
Mo 203.845†	6.3	0.1870	mg/L	0.06010	34.66	mg/kg	11.139	32.14%
Mo 204.597†	2.8	0.04427	mg/L	0.028241	8.206	mg/kg	5.2347	63.79%
Na 588.995†	2597.8	0.4461	mg/L	0.04463	82.68	mg/kg	8.272	10.00%
Na 589.592†	1899.8	0.4869	mg/L	0.01845	90.24	mg/kg	3.421	3.79%
Ni 221.648†	20.9	0.2701	mg/L	0.04035	50.07	mg/kg	7.479	14.94%
Ni 231.604†	80.7	0.2768	mg/L	0.00991	51.31	mg/kg	1.837	3.58%
Ni 232.003†	48.5	0.2626	mg/L	0.02813	48.67	mg/kg	5.213	10.71%
Pb 217.000†	45.1	1.847	mg/L	0.0488	342.3	mg/kg	9.05	2.64%
Pb 220.353†	84.1	1.927	mg/L	0.0608	357.1	mg/kg	11.28	3.16%
Sb 206.836†	3.4	0.1368	mg/L	0.09382	25.36	mg/kg	17.390	68.58%
Sb 217.582†	-1.3	-0.1036	mg/L	0.10042	-19.20	mg/kg	18.614	96.92%
Sb 231.146†	1.7	0.06558	mg/L	0.034063	12.16	mg/kg	6.314	51.94%
Se 196.026†	-4.2	-0.6314	mg/L	0.32441	-117.0	mg/kg	60.13	51.38%
Se 203.985†	2.4	0.1826	mg/L	0.44248	33.85	mg/kg	82.017	242.30%
Sn 189.927†	5.0	0.5856	mg/L	0.16839	108.5	mg/kg	31.21	28.76%
Sn 235.485†	2841.6	-4.806	mg/L	0.5627	-890.9	mg/kg	104.30	11.71%
Sn 283.998†	65.8	0.2301	mg/L	0.01152	42.65	mg/kg	2.135	5.01%
Sr 407.771†	25463.2	0.07814	mg/L	0.000202	14.48	mg/kg	0.037	0.26%
Sr 421.552†	11522.4	0.07853	mg/L	0.000339	14.56	mg/kg	0.063	0.43%
Sr 460.733†	140.1	0.05912	mg/L	0.014815	10.96	mg/kg	2.746	25.06%
Ti 334.940†	11254.3	0.5712	mg/L	0.00375	105.9	mg/kg	0.69	0.66%
Ti 336.121†	7938.6	0.5685	mg/L	0.00030	105.4	mg/kg	0.06	0.05%
Ti 337.279†	4130.0	0.5662	mg/L	0.00426	104.9	mg/kg	0.79	0.75%
Tl 190.801†	-1.0	-0.2035	mg/L	0.28270	-37.71	mg/kg	52.400	138.95%
Tl 276.787†	267.2	1.313	mg/L	0.1987	243.4	mg/kg	36.83	15.13%
Tl 351.924†	-1.3	-0.02073	mg/L	0.034437	-3.842	mg/kg	6.3831	166.14%
V 290.880†	147.6	0.05513	mg/L	0.002443	10.22	mg/kg	0.453	4.43%
V 309.310†	1821.9	0.07871	mg/L	0.002149	14.59	mg/kg	0.398	2.73%
V 310.230†	508.1	0.06869	mg/L	0.004633	12.73	mg/kg	0.859	6.75%
Zn 202.548†	1201.9	4.454	mg/L	0.0969	825.5	mg/kg	17.97	2.18%
Zn 206.200†	1374.3	4.516	mg/L	0.0599	837.1	mg/kg	11.11	1.33%
Zn 213.857†	2194.7	4.625	mg/L	0.0749	857.3	mg/kg	13.89	1.62%

Sequence No.: 34 **Autosampler Location: 47**
Sample ID: 0305007-19 **Date Collected: 8/19/03 1:20:39 PM**
Analyst:
Sample Wt: 0.5748 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:05:26 AM,**

Mean Data: 0305007-19

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160298.0						916.43	0.57%
Ag 328.068†	-18.8	-0.00018	mg/L	0.001728	-0.03180	mg/kg	0.300628	945.32%
Ag 338.289†	-21.3	-0.00136	mg/L	0.001137	-0.2365	mg/kg	0.19788	83.66%

Al 308.215†	5615.9	9.002 mg/L	0.0665	1566 mg/kg	11.6	0.74%
Al 394.401†	7734.7	9.288 mg/L	0.0886	1616 mg/kg	15.4	0.95%
Al 396.153†	17432.8	9.470 mg/L	0.0294	1647 mg/kg	5.1	0.31%
As 188.979†	4.1	0.4638 mg/L	0.12154	80.68 mg/kg	21.144	26.21%
As 193.696†	1.7	0.4159 mg/L	0.06157	72.36 mg/kg	10.711	14.80%
As 197.197†	-4.5	-0.3135 mg/L	0.75476	-54.54 mg/kg	131.307	240.74%
B 208.889†	5.4	0.06477 mg/L	0.023749	11.27 mg/kg	4.132	36.67%
B 249.677†	13.5	0.03384 mg/L	0.008666	5.887 mg/kg	1.5077	25.61%
B 249.772†	87.6	0.02868 mg/L	0.005279	4.990 mg/kg	0.9183	18.40%
Ba 233.527†	191.4	0.09222 mg/L	0.001837	16.04 mg/kg	0.320	1.99%
Ba 455.403†	12111.1	0.1044 mg/L	0.00015	18.16 mg/kg	0.025	0.14%
Ba 493.408†	11803.6	0.1037 mg/L	0.00078	18.04 mg/kg	0.136	0.75%
Be 234.861†	137.3	0.00207 mg/L	0.000760	0.3593 mg/kg	0.13222	36.80%
Be 313.042†	72.1	0.00076 mg/L	0.000023	0.1329 mg/kg	0.00394	2.96%
Be 313.107†	34.5	0.00097 mg/L	0.000188	0.1690 mg/kg	0.03268	19.34%
Ca 315.887†	362407.0	197.2 mg/L	0.33	34310 mg/kg	57.6	0.17%
Ca 317.933†	349264.1	185.8 mg/L	0.33	32330 mg/kg	56.7	0.18%
Cd 214.440†	12.3	0.01264 mg/L	0.002140	2.199 mg/kg	0.3722	16.93%
Cd 226.502†	7.8	0.01235 mg/L	0.002530	2.149 mg/kg	0.4402	20.48%
Cd 228.802†	9.7	0.01007 mg/L	0.002284	1.752 mg/kg	0.3973	22.68%
Ce 413.380†	72.8	0.04499 mg/L	0.007151	7.827 mg/kg	1.2441	15.89%
Ce 413.764†	86.9	0.06386 mg/L	0.009878	11.11 mg/kg	1.719	15.47%
Ce 418.660†	113.5	0.07162 mg/L	0.011058	12.46 mg/kg	1.924	15.44%
Co 228.616†	10.2	0.01778 mg/L	0.003836	3.093 mg/kg	0.6674	21.58%
Co 230.786†	10.5	0.01282 mg/L	0.004280	2.230 mg/kg	0.7445	33.39%
Co 238.892†	114.0	0.03433 mg/L	0.010064	5.973 mg/kg	1.7509	29.31%
Cr 205.560†	26.4	0.2077 mg/L	0.03182	36.13 mg/kg	5.537	15.32%
Cr 267.716†	146.6	0.1807 mg/L	0.00658	31.43 mg/kg	1.144	3.64%
Cr 283.563†	988.0	0.1751 mg/L	0.00331	30.46 mg/kg	0.575	1.89%
Cu 224.700†	62.5	0.2238 mg/L	0.01520	38.94 mg/kg	2.644	6.79%
Cu 324.752†	1366.3	0.2269 mg/L	0.00083	39.47 mg/kg	0.144	0.36%
Cu 327.393†	633.0	0.2347 mg/L	0.00145	40.82 mg/kg	0.252	0.62%
Fe 238.204†	166787.7	109.7 mg/L	0.28	19090 mg/kg	48.1	0.25%
Fe 239.562†	95506.4	109.0 mg/L	0.03	18970 mg/kg	5.8	0.03%
Fe 259.939†	320631.6	110.5 mg/L	0.31	19220 mg/kg	54.7	0.28%
Fe 273.955†	51529.4	120.5 mg/L	0.35	20960 mg/kg	61.6	0.29%
K 766.490†	1267.2	0.9474 mg/L	0.01769	164.8 mg/kg	3.08	1.87%
Li 610.362†	1159.3	0.1514 mg/L	0.06033	26.33 mg/kg	10.496	39.86%
Li 670.784†	185.9	0.00689 mg/L	0.001237	1.199 mg/kg	0.2151	17.95%
Mg 279.077†	32455.6	103.7 mg/L	0.26	18030 mg/kg	44.8	0.25%
Mg 280.271†	4371495.7	92.27 mg/L	0.226	16050 mg/kg	39.3	0.25%
Mg 285.213†	388678.4	97.10 mg/L	0.442	16890 mg/kg	76.9	0.46%
Mn 257.610†	18892.5	1.608 mg/L	0.0051	279.7 mg/kg	0.90	0.32%
Mn 259.372†	18939.2	1.608 mg/L	0.0067	279.8 mg/kg	1.17	0.42%
Mn 260.568†	11865.9	1.617 mg/L	0.0039	281.4 mg/kg	0.68	0.24%
Mo 202.031†	11.2	1.020 mg/L	0.1014	177.4 mg/kg	17.64	9.95%
Mo 203.845†	4.7	0.1561 mg/L	0.10012	27.15 mg/kg	17.418	64.15%
Mo 204.597†	4.0	0.06849 mg/L	0.033907	11.92 mg/kg	5.899	49.51%
Na 588.995†	2962.5	0.5087 mg/L	0.02871	88.50 mg/kg	4.995	5.64%
Na 589.592†	2150.3	0.5510 mg/L	0.01844	95.86 mg/kg	3.209	3.35%
Ni 221.648†	10.2	0.1406 mg/L	0.01932	24.46 mg/kg	3.362	13.74%
Ni 231.604†	42.9	0.1472 mg/L	0.00869	25.61 mg/kg	1.511	5.90%
Ni 232.003†	23.7	0.1339 mg/L	0.00152	23.29 mg/kg	0.265	1.14%
Pb 217.000†	31.7	1.307 mg/L	0.1348	227.3 mg/kg	23.45	10.31%
Pb 220.353†	57.3	1.256 mg/L	0.0444	218.5 mg/kg	7.72	3.53%
Sb 206.836†	3.6	0.1356 mg/L	0.03656	23.59 mg/kg	6.361	26.97%
Sb 217.582†	-1.4	-0.04390 mg/L	0.104665	-7.637 mg/kg	18.2090	238.43%
Sb 231.146†	-1.0	-0.05558 mg/L	0.080477	-9.669 mg/kg	14.0009	144.80%
Se 196.026†	-2.3	-0.3487 mg/L	0.46676	-60.67 mg/kg	81.203	133.84%
Se 203.985†	2.3	0.2343 mg/L	0.10970	40.76 mg/kg	19.085	46.82%
Sn 189.927†	3.6	0.4038 mg/L	0.25242	70.25 mg/kg	43.915	62.51%
Sn 235.485†	1513.5	-2.345 mg/L	0.1252	-407.9 mg/kg	21.78	5.34%
Sn 283.998†	-12.2	0.03240 mg/L	0.015410	5.637 mg/kg	2.6810	47.56%
Sr 407.771†	28080.3	0.08495 mg/L	0.000120	14.78 mg/kg	0.021	0.14%
Sr 421.552†	12605.6	0.08491 mg/L	0.000946	14.77 mg/kg	0.165	1.11%
Sr 460.733†	206.8	0.08920 mg/L	0.035769	15.52 mg/kg	6.223	40.10%
Ti 334.940†	14515.9	0.7374 mg/L	0.00074	128.3 mg/kg	0.13	0.10%
Ti 336.121†	10268.9	0.7350 mg/L	0.00174	127.9 mg/kg	0.30	0.24%
Ti 337.279†	5369.8	0.7364 mg/L	0.00265	128.1 mg/kg	0.46	0.36%
Tl 190.801†	0.1	0.07162 mg/L	0.403217	12.46 mg/kg	70.149	563.00%
Tl 276.787†	412.1	2.008 mg/L	0.3724	349.3 mg/kg	64.79	18.55%

Tl 351.924†	-11.6	-0.08474	mg/L	0.043976	-14.74	mg/kg	7.651	51.89%
V 290.880†	65.8	0.04255	mg/L	0.003418	7.402	mg/kg	0.5947	8.03%
V 309.310†	2704.8	0.07776	mg/L	0.002701	13.53	mg/kg	0.470	3.47%
V 310.230†	463.6	0.06191	mg/L	0.000908	10.77	mg/kg	0.158	1.47%
Zn 202.548†	613.0	2.267	mg/L	0.0434	394.5	mg/kg	7.54	1.91%
Zn 206.200†	700.6	2.303	mg/L	0.0193	400.7	mg/kg	3.36	0.84%
Zn 213.857†	1125.6	2.365	mg/L	0.0117	411.4	mg/kg	2.04	0.50%

Sequence No.: 35
Sample ID: 0305007-20
Analyst:
Sample Wt: 0.627 g
Dilution: 1X

Autosampler Location: 49
Date Collected: 8/19/03 1:24:27 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:05:32 AM,

Mean Data: 0305007-20

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	163073.8						1427.17	0.88%
Ag 328.068†	16.5	0.00714	mg/L	0.001496	1.139	mg/kg	0.2386	20.95%
Ag 338.289†	-76.8	0.00295	mg/L	0.003103	0.4701	mg/kg	0.49491	105.28%
Al 308.215†	10707.1	17.21	mg/L	0.212	2745	mg/kg	33.8	1.23%
Al 394.401†	14757.9	17.67	mg/L	0.296	2818	mg/kg	47.2	1.67%
Al 396.153†	32882.9	17.90	mg/L	0.197	2856	mg/kg	31.4	1.10%
As 188.979†	3.5	0.4521	mg/L	0.06125	72.11	mg/kg	9.769	13.55%
As 193.696†	-0.7	-0.09851	mg/L	0.354130	-15.71	mg/kg	56.480	359.47%
As 197.197†	-3.7	-0.3666	mg/L	0.01739	-58.48	mg/kg	2.774	4.74%
B 208.889†	4.5	0.04135	mg/L	0.038673	6.595	mg/kg	6.1680	93.53%
B 249.677†	11.2	0.03871	mg/L	0.007068	6.173	mg/kg	1.1273	18.26%
B 249.772†	251.4	0.00534	mg/L	0.005888	0.8516	mg/kg	0.93915	110.28%
Ba 233.527†	1074.6	0.5348	mg/L	0.00565	85.29	mg/kg	0.901	1.06%
Ba 455.403†	68967.6	0.5970	mg/L	0.01169	95.22	mg/kg	1.865	1.96%
Ba 493.408†	67548.1	0.5975	mg/L	0.00055	95.29	mg/kg	0.088	0.09%
Be 234.861†	463.7	0.00183	mg/L	0.000876	0.2921	mg/kg	0.13967	47.81%
Be 313.042†	148.6	0.00197	mg/L	0.000038	0.3143	mg/kg	0.00602	1.92%
Be 313.107†	74.8	0.00211	mg/L	0.000160	0.3362	mg/kg	0.02557	7.60%
Ca 315.887†	202717.5	110.3	mg/L	0.33	17600	mg/kg	52.2	0.30%
Ca 317.933†	195502.3	104.0	mg/L	0.24	16590	mg/kg	38.3	0.23%
Cd 214.440†	42.2	0.04584	mg/L	0.001783	7.311	mg/kg	0.2844	3.89%
Cd 226.502†	39.2	0.04428	mg/L	0.003005	7.062	mg/kg	0.4793	6.79%
Cd 228.802†	32.5	0.05146	mg/L	0.003294	8.207	mg/kg	0.5254	6.40%
Ce 413.380†	191.6	0.08341	mg/L	0.024548	13.30	mg/kg	3.915	29.43%
Ce 413.764†	112.2	0.07088	mg/L	0.004046	11.30	mg/kg	0.645	5.71%
Ce 418.660†	173.0	0.09325	mg/L	0.032995	14.87	mg/kg	5.262	35.38%
Co 228.616†	26.0	0.03976	mg/L	0.005629	6.341	mg/kg	0.8978	14.16%
Co 230.786†	32.8	0.03941	mg/L	0.003836	6.285	mg/kg	0.6119	9.73%
Co 238.892†	431.7	0.09319	mg/L	0.028770	14.86	mg/kg	4.588	30.87%
Cr 205.560†	193.8	1.541	mg/L	0.0130	245.7	mg/kg	2.07	0.84%
Cr 267.716†	1279.3	1.571	mg/L	0.0070	250.6	mg/kg	1.12	0.45%
Cr 283.563†	7688.4	1.558	mg/L	0.0347	248.5	mg/kg	5.53	2.23%
Cu 224.700†	717.1	2.760	mg/L	0.0388	440.3	mg/kg	6.19	1.41%
Cu 324.752†	16719.0	2.813	mg/L	0.0474	448.6	mg/kg	7.56	1.69%
Cu 327.393†	7376.6	2.801	mg/L	0.0442	446.7	mg/kg	7.06	1.58%
Fe 238.204†	641376.0	421.8	mg/L	1.63	67280	mg/kg	260.4	0.39%
Fe 239.562†	373489.7	426.3	mg/L	1.46	67990	mg/kg	233.4	0.34%
Fe 259.939†	1235811.7	425.8	mg/L	1.25	67920	mg/kg	199.2	0.29%
Fe 273.955†	205765.2	481.1	mg/L	0.75	76730	mg/kg	119.7	0.16%
K 766.490†	2035.8	1.522	mg/L	0.0262	242.7	mg/kg	4.17	1.72%
Li 610.362†	213.6	-0.03601	mg/L	0.072572	-5.743	mg/kg	11.5745	201.53%
Li 670.784†	281.8	0.00984	mg/L	0.003081	1.569	mg/kg	0.4913	31.32%
Mg 279.077†	16093.0	51.26	mg/L	0.602	8176	mg/kg	96.0	1.17%
Mg 280.271†	2281510.1	48.12	mg/L	0.152	7675	mg/kg	24.3	0.32%
Mg 285.213†	199360.3	49.77	mg/L	0.100	7938	mg/kg	15.9	0.20%
Mn 257.610†	29686.7	2.524	mg/L	0.0393	402.6	mg/kg	6.27	1.56%
Mn 259.372†	33005.9	2.499	mg/L	0.0551	398.6	mg/kg	8.79	2.21%
Mn 260.568†	18690.7	2.536	mg/L	0.0390	404.4	mg/kg	6.22	1.54%
Mo 202.031†	7.1	0.6400	mg/L	0.28881	102.1	mg/kg	46.06	45.12%
Mo 203.845†	10.5	0.2839	mg/L	0.08805	45.28	mg/kg	14.043	31.01%
Mo 204.597†	11.2	0.1847	mg/L	0.02072	29.46	mg/kg	3.305	11.22%
Na 588.995†	3900.6	0.6698	mg/L	0.03767	106.8	mg/kg	6.01	5.62%

Na 589.592†	2374.5	0.6085	mg/L	0.02619	97.05	mg/kg	4.177	4.30%
Ni 221.648†	41.7	0.5288	mg/L	0.00423	84.33	mg/kg	0.674	0.80%
Ni 231.604†	157.4	0.5393	mg/L	0.01754	86.01	mg/kg	2.798	3.25%
Ni 232.003†	115.7	0.5888	mg/L	0.02346	93.90	mg/kg	3.741	3.98%
Pb 217.000†	109.8	4.656	mg/L	0.0477	742.5	mg/kg	7.61	1.03%
Pb 220.353†	199.7	4.662	mg/L	0.0953	743.5	mg/kg	15.20	2.05%
Sb 206.836†	2.9	0.1053	mg/L	0.00956	16.79	mg/kg	1.525	9.08%
Sb 217.582†	2.2	-0.02701	mg/L	0.120825	-4.308	mg/kg	19.2704	447.27%
Sb 231.146†	2.2	0.05994	mg/L	0.086756	9.561	mg/kg	13.8367	144.73%
Se 196.026†	-2.7	-0.4454	mg/L	0.35656	-71.04	mg/kg	56.867	80.05%
Se 203.985†	4.1	0.1589	mg/L	0.03841	25.35	mg/kg	6.126	24.17%
Sn 189.927†	14.4	1.727	mg/L	0.0998	275.5	mg/kg	15.92	5.78%
Sn 235.485†	6064.0	-8.843	mg/L	2.1205	-1410	mg/kg	338.2	23.98%
Sn 283.998†	352.3	0.7539	mg/L	0.00701	120.2	mg/kg	1.12	0.93%
Sr 407.771†	32237.7	0.1005	mg/L	0.00209	16.03	mg/kg	0.334	2.08%
Sr 421.552†	14724.1	0.1016	mg/L	0.00193	16.20	mg/kg	0.308	1.90%
Sr 460.733†	209.1	0.09300	mg/L	0.048600	14.83	mg/kg	7.751	52.26%
Ti 334.940†	17287.8	0.8746	mg/L	0.01509	139.5	mg/kg	2.41	1.73%
Ti 336.121†	12135.2	0.8713	mg/L	0.01586	139.0	mg/kg	2.53	1.82%
Ti 337.279†	6388.2	0.8758	mg/L	0.01768	139.7	mg/kg	2.82	2.02%
Tl 190.801†	0.2	-0.03596	mg/L	0.031214	-5.736	mg/kg	4.9783	86.80%
Tl 276.787†	235.8	1.118	mg/L	0.3167	178.4	mg/kg	50.51	28.32%
Tl 351.924†	0.4	-0.02078	mg/L	0.078874	-3.315	mg/kg	12.5795	379.52%
V 290.880†	343.5	0.1069	mg/L	0.00358	17.05	mg/kg	0.572	3.35%
V 309.310†	1853.7	0.1330	mg/L	0.00538	21.21	mg/kg	0.858	4.05%
V 310.230†	863.0	0.1177	mg/L	0.00521	18.77	mg/kg	0.831	4.43%
Zn 202.548†	1926.5	7.124	mg/L	0.0481	1136	mg/kg	7.7	0.68%
Zn 206.200†	2204.9	7.249	mg/L	0.0407	1156	mg/kg	6.5	0.56%
Zn 213.857†	3507.8	7.392	mg/L	0.0467	1179	mg/kg	7.5	0.63%

==========

Sequence No.: 36 **Autosampler Location: 51**
Sample ID: 0305007-21 **Date Collected: 8/19/03 1:28:16 PM**
Analyst:
Sample Wt: 0.5054 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:05:39 AM,**

Mean Data: 0305007-21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163699.9						1678.69	1.03%
Ag 328.068†	-6.6	0.00137	mg/L	0.001306	0.2717	mg/kg	0.25848	95.12%
Ag 338.289†	-10.5	0.00048	mg/L	0.001213	0.09404	mg/kg	0.239950	255.16%
Al 308.215†	3695.7	5.922	mg/L	0.0245	1172	mg/kg	4.8	0.41%
Al 394.401†	5092.2	6.120	mg/L	0.1168	1211	mg/kg	23.1	1.91%
Al 396.153†	11605.4	6.302	mg/L	0.0413	1247	mg/kg	8.2	0.66%
As 188.979†	3.4	0.3939	mg/L	0.06632	77.95	mg/kg	13.122	16.84%
As 193.696†	0.3	0.1189	mg/L	0.46296	23.53	mg/kg	91.603	389.26%
As 197.197†	-3.7	-0.3026	mg/L	0.65533	-59.88	mg/kg	129.666	216.56%
B 208.889†	1.7	0.00966	mg/L	0.017505	1.912	mg/kg	3.4636	181.13%
B 249.677†	8.3	0.02104	mg/L	0.003556	4.163	mg/kg	0.7037	16.90%
B 249.772†	60.1	0.01964	mg/L	0.002816	3.885	mg/kg	0.5572	14.34%
Ba 233.527†	123.8	0.05918	mg/L	0.004839	11.71	mg/kg	0.958	8.18%
Ba 455.403†	7886.9	0.06795	mg/L	0.000203	13.45	mg/kg	0.040	0.30%
Ba 493.408†	7635.0	0.06703	mg/L	0.000385	13.26	mg/kg	0.076	0.57%
Be 234.861†	91.4	0.00116	mg/L	0.001044	0.2292	mg/kg	0.20650	90.10%
Be 313.042†	45.6	0.00045	mg/L	0.000104	0.08954	mg/kg	0.020641	23.05%
Be 313.107†	21.3	0.00060	mg/L	0.000163	0.1183	mg/kg	0.03233	27.34%
Ca 315.887†	268203.8	146.0	mg/L	2.62	28880	mg/kg	517.6	1.79%
Ca 317.933†	258895.7	137.7	mg/L	2.34	27250	mg/kg	463.8	1.70%
Cd 214.440†	7.0	0.00683	mg/L	0.001629	1.351	mg/kg	0.3223	23.85%
Cd 226.502†	-0.1	-0.00172	mg/L	0.003607	-0.3406	mg/kg	0.71373	209.56%
Cd 228.802†	2.2	0.00306	mg/L	0.006530	0.6053	mg/kg	1.29199	213.43%
Ce 413.380†	57.2	0.03747	mg/L	0.011541	7.413	mg/kg	2.2835	30.80%
Ce 413.764†	65.9	0.04898	mg/L	0.012039	9.691	mg/kg	2.3820	24.58%
Ce 418.660†	91.0	0.05781	mg/L	0.006416	11.44	mg/kg	1.269	11.10%
Co 228.616†	9.9	0.01759	mg/L	0.000184	3.480	mg/kg	0.0365	1.05%
Co 230.786†	6.5	0.00745	mg/L	0.004356	1.474	mg/kg	0.8619	58.47%
Co 238.892†	75.9	0.01836	mg/L	0.009310	3.632	mg/kg	1.8422	50.72%
Cr 205.560†	11.8	0.09203	mg/L	0.009945	18.21	mg/kg	1.968	10.81%

Cr 267.716†	71.6	0.08892	mg/L	0.001435	17.59	mg/kg	0.284	1.61%
Cr 283.563†	502.2	0.07939	mg/L	0.001072	15.71	mg/kg	0.212	1.35%
Cu 224.700†	37.1	0.1307	mg/L	0.01262	25.85	mg/kg	2.497	9.66%
Cu 324.752†	753.2	0.1248	mg/L	0.00119	24.69	mg/kg	0.236	0.96%
Cu 327.393†	349.8	0.1288	mg/L	0.00161	25.49	mg/kg	0.319	1.25%
Fe 238.204†	114865.2	75.55	mg/L	0.359	14950	mg/kg	71.0	0.48%
Fe 239.562†	65834.3	75.15	mg/L	0.444	14870	mg/kg	87.8	0.59%
Fe 259.939†	219664.8	75.70	mg/L	0.427	14980	mg/kg	84.6	0.56%
Fe 273.955†	35493.6	82.99	mg/L	0.373	16420	mg/kg	73.8	0.45%
K 766.490†	1059.9	0.7924	mg/L	0.01541	156.8	mg/kg	3.05	1.94%
Li 610.362†	372.0	0.02224	mg/L	0.103422	4.400	mg/kg	20.4634	465.13%
Li 670.784†	61.7	0.00297	mg/L	0.000566	0.5877	mg/kg	0.11202	19.06%
Mg 279.077†	23964.0	76.54	mg/L	0.569	15140	mg/kg	112.6	0.74%
Mg 280.271†	3281289.8	69.26	mg/L	1.215	13700	mg/kg	240.4	1.75%
Mg 285.213†	287966.1	71.94	mg/L	1.425	14230	mg/kg	281.9	1.98%
Mn 257.610†	9744.8	0.8285	mg/L	0.00817	163.9	mg/kg	1.62	0.99%
Mn 259.372†	10024.2	0.8290	mg/L	0.00641	164.0	mg/kg	1.27	0.77%
Mn 260.568†	6141.7	0.8358	mg/L	0.00498	165.4	mg/kg	0.98	0.60%
Mo 202.031†	9.0	0.8337	mg/L	0.09094	165.0	mg/kg	17.99	10.91%
Mo 203.845†	4.8	0.1615	mg/L	0.05529	31.96	mg/kg	10.941	34.23%
Mo 204.597†	3.2	0.05430	mg/L	0.050414	10.74	mg/kg	9.975	92.84%
Na 588.995†	2595.2	0.4456	mg/L	0.07206	88.17	mg/kg	14.257	16.17%
Na 589.592†	1686.4	0.4322	mg/L	0.00984	85.51	mg/kg	1.948	2.28%
Ni 221.648†	5.2	0.07413	mg/L	0.025061	14.67	mg/kg	4.959	33.81%
Ni 231.604†	20.0	0.06811	mg/L	0.002199	13.48	mg/kg	0.435	3.23%
Ni 232.003†	7.4	0.04336	mg/L	0.006445	8.579	mg/kg	1.2752	14.86%
Pb 217.000†	26.3	1.108	mg/L	0.0918	219.2	mg/kg	18.17	8.29%
Pb 220.353†	47.1	1.035	mg/L	0.0756	204.7	mg/kg	14.97	7.31%
Sb 206.836†	3.0	0.1152	mg/L	0.04020	22.79	mg/kg	7.955	34.91%
Sb 217.582†	-1.7	-0.06718	mg/L	0.108947	-13.29	mg/kg	21.557	162.17%
Sb 231.146†	-1.6	-0.08233	mg/L	0.035797	-16.29	mg/kg	7.083	43.48%
Se 196.026†	-1.7	-0.2566	mg/L	0.29191	-50.77	mg/kg	57.758	113.76%
Se 203.985†	0.4	0.00118	mg/L	0.310578	0.2340	mg/kg	61.45188	>999.9%
Sn 189.927†	3.2	0.3622	mg/L	0.20910	71.66	mg/kg	41.373	57.74%
Sn 235.485†	1041.8	-1.635	mg/L	0.1054	-323.5	mg/kg	20.86	6.45%
Sn 283.998†	-25.4	-0.00159	mg/L	0.015033	-0.3138	mg/kg	2.97448	947.92%
Sr 407.771†	17417.7	0.05215	mg/L	0.000438	10.32	mg/kg	0.087	0.84%
Sr 421.552†	7852.0	0.05234	mg/L	0.000240	10.36	mg/kg	0.047	0.46%
Sr 460.733†	91.4	0.03566	mg/L	0.044295	7.056	mg/kg	8.7643	124.21%
Ti 334.940†	10712.6	0.5442	mg/L	0.00309	107.7	mg/kg	0.61	0.57%
Ti 336.121†	7575.5	0.5422	mg/L	0.00275	107.3	mg/kg	0.55	0.51%
Ti 337.279†	3908.0	0.5359	mg/L	0.00408	106.0	mg/kg	0.81	0.76%
Tl 190.801†	-0.6	-0.07710	mg/L	0.406711	-15.25	mg/kg	80.473	527.53%
Tl 276.787†	293.1	1.372	mg/L	0.0733	271.6	mg/kg	14.50	5.34%
Tl 351.924†	-8.5	-0.06226	mg/L	0.026556	-12.32	mg/kg	5.255	42.65%
V 290.880†	20.8	0.02194	mg/L	0.003097	4.341	mg/kg	0.6127	14.11%
V 309.310†	1955.7	0.05104	mg/L	0.001227	10.10	mg/kg	0.243	2.40%
V 310.230†	274.9	0.03650	mg/L	0.002158	7.222	mg/kg	0.4270	5.91%
Zn 202.548†	279.3	1.031	mg/L	0.0113	204.0	mg/kg	2.24	1.10%
Zn 206.200†	323.8	1.065	mg/L	0.0124	210.8	mg/kg	2.45	1.16%
Zn 213.857†	520.9	1.090	mg/L	0.0073	215.6	mg/kg	1.44	0.67%

Sequence No.: 37
Sample ID: 0305007-22
Analyst:
Sample Wt: 0.5397 g
Dilution: 1X

Autosampler Location: 53
Date Collected: 8/19/03 1:32:06 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:05:45 AM,

Mean Data: 0305007-22

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	165275.8						3005.34	1.82%
Ag 328.068†	8.0	0.00494	mg/L	0.002317	0.9159	mg/kg	0.42924	46.87%
Ag 338.289†	-59.3	0.00310	mg/L	0.003345	0.5752	mg/kg	0.61979	107.75%
Al 308.215†	10551.1	16.96	mg/L	0.281	3142	mg/kg	52.1	1.66%
Al 394.401†	14596.7	17.46	mg/L	0.339	3236	mg/kg	62.8	1.94%
Al 396.153†	32591.3	17.75	mg/L	0.261	3289	mg/kg	48.3	1.47%
As 188.979†	3.7	0.4900	mg/L	0.21713	90.79	mg/kg	40.231	44.31%
As 193.696†	1.2	0.2751	mg/L	0.33621	50.98	mg/kg	62.295	122.20%

As 197.197†	-3.1	-0.3145 mg/L	0.14790	-58.27 mg/kg	27.404	47.03%
B 208.889†	4.8	0.05356 mg/L	0.025608	9.924 mg/kg	4.7449	47.81%
B 249.677†	18.4	0.05280 mg/L	0.007568	9.783 mg/kg	1.4023	14.33%
B 249.772†	223.2	0.02533 mg/L	0.001952	4.694 mg/kg	0.3616	7.70%
Ba 233.527†	614.3	0.2962 mg/L	0.00692	54.89 mg/kg	1.282	2.33%
Ba 455.403†	39364.5	0.3406 mg/L	0.00608	63.11 mg/kg	1.126	1.78%
Ba 493.408†	38154.4	0.3365 mg/L	0.00545	62.35 mg/kg	1.010	1.62%
Be 234.861†	390.2	0.00279 mg/L	0.001256	0.5176 mg/kg	0.23280	44.98%
Be 313.042†	156.2	0.00214 mg/L	0.000043	0.3960 mg/kg	0.00790	2.00%
Be 313.107†	84.3	0.00239 mg/L	0.000202	0.4428 mg/kg	0.03737	8.44%
Ca 315.887†	166742.1	90.74 mg/L	0.396	16810 mg/kg	73.4	0.44%
Ca 317.933†	160505.8	85.40 mg/L	0.315	15820 mg/kg	58.4	0.37%
Cd 214.440†	137.7	0.1616 mg/L	0.00188	29.94 mg/kg	0.348	1.16%
Cd 226.502†	96.3	0.1594 mg/L	0.00135	29.54 mg/kg	0.250	0.85%
Cd 228.802†	117.7	0.1580 mg/L	0.01023	29.27 mg/kg	1.896	6.48%
Ce 413.380†	125.5	0.04097 mg/L	0.023220	7.591 mg/kg	4.3023	56.67%
Ce 413.764†	94.5	0.06034 mg/L	0.005755	11.18 mg/kg	1.066	9.54%
Ce 418.660†	94.8	0.04638 mg/L	0.026578	8.594 mg/kg	4.9247	57.30%
Co 228.616†	20.9	0.03178 mg/L	0.002967	5.888 mg/kg	0.5498	9.34%
Co 230.786†	26.5	0.03176 mg/L	0.007486	5.885 mg/kg	1.3870	23.57%
Co 238.892†	354.3	0.08734 mg/L	0.042338	16.18 mg/kg	7.845	48.47%
Cr 205.560†	206.7	1.643 mg/L	0.0264	304.4 mg/kg	4.89	1.61%
Cr 267.716†	1334.9	1.637 mg/L	0.0157	303.4 mg/kg	2.90	0.96%
Cr 283.563†	7884.8	1.647 mg/L	0.0332	305.2 mg/kg	6.15	2.02%
Cu 224.700†	355.2	1.344 mg/L	0.0283	249.1 mg/kg	5.24	2.10%
Cu 324.752†	8386.9	1.407 mg/L	0.0145	260.8 mg/kg	2.69	1.03%
Cu 327.393†	3660.4	1.387 mg/L	0.0176	257.0 mg/kg	3.26	1.27%
Fe 238.204†	520513.3	342.3 mg/L	1.68	63430 mg/kg	310.7	0.49%
Fe 239.562†	302273.4	345.0 mg/L	1.03	63930 mg/kg	190.1	0.30%
Fe 259.939†	1001751.3	345.2 mg/L	1.14	63960 mg/kg	211.3	0.33%
Fe 273.955†	165906.9	387.9 mg/L	1.02	71870 mg/kg	188.2	0.26%
K 766.490†	1751.8	1.310 mg/L	0.0564	242.7 mg/kg	10.44	4.30%
Li 610.362†	-317.8	-0.1205 mg/L	0.10143	-22.33 mg/kg	18.794	84.16%
Li 670.784†	252.4	0.00868 mg/L	0.001485	1.608 mg/kg	0.2752	17.11%
Mg 279.077†	13032.7	41.52 mg/L	0.561	7692 mg/kg	103.9	1.35%
Mg 280.271†	1835846.6	38.72 mg/L	0.115	7175 mg/kg	21.4	0.30%
Mg 285.213†	158805.3	39.65 mg/L	0.167	7346 mg/kg	30.9	0.42%
Mn 257.610†	26068.5	2.217 mg/L	0.0335	410.8 mg/kg	6.20	1.51%
Mn 259.372†	28609.8	2.199 mg/L	0.0431	407.5 mg/kg	7.98	1.96%
Mn 260.568†	16339.2	2.218 mg/L	0.0350	411.0 mg/kg	6.49	1.58%
Mo 202.031†	6.3	0.5756 mg/L	0.19591	106.6 mg/kg	36.30	34.04%
Mo 203.845†	7.2	0.1841 mg/L	0.07894	34.11 mg/kg	14.626	42.88%
Mo 204.597†	5.5	0.08632 mg/L	0.031931	15.99 mg/kg	5.917	36.99%
Na 588.995†	3207.2	0.5507 mg/L	0.06811	102.0 mg/kg	12.62	12.37%
Na 589.592†	1986.0	0.5089 mg/L	0.01854	94.30 mg/kg	3.436	3.64%
Ni 221.648†	39.1	0.4960 mg/L	0.02006	91.90 mg/kg	3.716	4.04%
Ni 231.604†	154.9	0.5320 mg/L	0.00244	98.57 mg/kg	0.452	0.46%
Ni 232.003†	104.2	0.5188 mg/L	0.01547	96.12 mg/kg	2.867	2.98%
Pb 217.000†	113.6	4.941 mg/L	0.1095	915.5 mg/kg	20.29	2.22%
Pb 220.353†	213.3	4.964 mg/L	0.1042	919.8 mg/kg	19.31	2.10%
Sb 206.836†	3.3	0.1244 mg/L	0.01172	23.06 mg/kg	2.172	9.42%
Sb 217.582†	2.7	0.02659 mg/L	0.092384	4.927 mg/kg	17.1177	347.42%
Sb 231.146†	3.3	0.1236 mg/L	0.07256	22.90 mg/kg	13.444	58.70%
Se 196.026†	-1.1	-0.2134 mg/L	0.41929	-39.54 mg/kg	77.689	196.48%
Se 203.985†	4.4	0.2214 mg/L	0.25564	41.02 mg/kg	47.367	115.47%
Sn 189.927†	12.5	1.507 mg/L	0.1724	279.3 mg/kg	31.94	11.44%
Sn 235.485†	4984.7	-4.657 mg/L	2.9452	-862.9 mg/kg	545.71	63.24%
Sn 283.998†	414.9	0.8148 mg/L	0.03491	151.0 mg/kg	6.47	4.28%
Sr 407.771†	27330.9	0.08522 mg/L	0.001383	15.79 mg/kg	0.256	1.62%
Sr 421.552†	12442.8	0.08589 mg/L	0.001426	15.91 mg/kg	0.264	1.66%
Sr 460.733†	187.9	0.08446 mg/L	0.007848	15.65 mg/kg	1.454	9.29%
Ti 334.940†	15541.5	0.7859 mg/L	0.00830	145.6 mg/kg	1.54	1.06%
Ti 336.121†	10902.1	0.7830 mg/L	0.00808	145.1 mg/kg	1.50	1.03%
Ti 337.279†	5691.7	0.7804 mg/L	0.01357	144.6 mg/kg	2.51	1.74%
Tl 190.801†	-1.3	-0.3162 mg/L	0.16881	-58.59 mg/kg	31.279	53.39%
Tl 276.787†	190.0	0.8906 mg/L	0.11559	165.0 mg/kg	21.42	12.98%
Tl 351.924†	-3.0	-0.03773 mg/L	0.032548	-6.991 mg/kg	6.0307	86.27%
V 290.880†	292.1	0.09158 mg/L	0.000437	16.97 mg/kg	0.081	0.48%
V 309.310†	1559.6	0.1147 mg/L	0.01069	21.25 mg/kg	1.981	9.32%
V 310.230†	734.0	0.1001 mg/L	0.00507	18.55 mg/kg	0.939	5.06%
Zn 202.548†	2886.2	10.70 mg/L	0.182	1983 mg/kg	33.7	1.70%

Zn 206.200†	3316.4	10.89	mg/L	0.203	2018	mg/kg	37.5 1.86%
Zn 213.857†	5299.9	11.19	mg/L	0.136	2074	mg/kg	25.3 1.22%

Sequence No.: 38
Sample ID: 0305007-23
Analyst:
Sample Wt: 0.6032 g
Dilution: 1X

Autosampler Location: 55
Date Collected: 8/19/03 1:35:58 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:05:52 AM,

Mean Data: 0305007-23

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	162740.3						2260.91	1.39%
Ag 328.068†	-0.4	0.00278	mg/L	0.000991	0.4602	mg/kg	0.16429	35.70%
Ag 338.289†	-48.1	0.00288	mg/L	0.003662	0.4781	mg/kg	0.60717	127.00%
Al 308.215†	8174.5	13.14	mg/L	0.163	2178	mg/kg	27.0	1.24%
Al 394.401†	11283.5	13.51	mg/L	0.171	2240	mg/kg	28.4	1.27%
Al 396.153†	25178.2	13.71	mg/L	0.157	2272	mg/kg	26.0	1.14%
As 188.979†	2.4	0.2879	mg/L	0.10757	47.74	mg/kg	17.834	37.36%
As 193.696†	1.9	0.4230	mg/L	0.16581	70.12	mg/kg	27.489	39.20%
As 197.197†	-2.9	-0.2649	mg/L	0.20424	-43.91	mg/kg	33.860	77.10%
B 208.889†	5.1	0.06071	mg/L	0.026717	10.06	mg/kg	4.429	44.01%
B 249.677†	9.2	0.03002	mg/L	0.008023	4.977	mg/kg	1.3300	26.73%
B 249.772†	186.9	0.02401	mg/L	0.003315	3.980	mg/kg	0.5496	13.81%
Ba 233.527†	448.5	0.2132	mg/L	0.00350	35.34	mg/kg	0.579	1.64%
Ba 455.403†	27987.8	0.2421	mg/L	0.00249	40.14	mg/kg	0.413	1.03%
Ba 493.408†	27155.6	0.2391	mg/L	0.00224	39.64	mg/kg	0.371	0.94%
Be 234.861†	326.8	0.00272	mg/L	0.000831	0.4501	mg/kg	0.13776	30.60%
Be 313.042†	146.0	0.00200	mg/L	0.000050	0.3319	mg/kg	0.00830	2.50%
Be 313.107†	73.6	0.00207	mg/L	0.000072	0.3438	mg/kg	0.01190	3.46%
Ca 315.887†	181230.6	98.63	mg/L	0.246	16350	mg/kg	40.9	0.25%
Ca 317.933†	174359.0	92.77	mg/L	0.138	15380	mg/kg	22.8	0.15%
Cd 214.440†	20.8	0.02156	mg/L	0.001671	3.574	mg/kg	0.2770	7.75%
Cd 226.502†	18.8	0.01632	mg/L	0.006627	2.705	mg/kg	1.0986	40.61%
Cd 228.802†	15.4	0.02037	mg/L	0.003935	3.376	mg/kg	0.6524	19.32%
Ce 413.380†	104.4	0.03492	mg/L	0.025848	5.789	mg/kg	4.2852	74.03%
Ce 413.764†	119.0	0.08419	mg/L	0.003366	13.96	mg/kg	0.558	4.00%
Ce 418.660†	161.4	0.09270	mg/L	0.031550	15.37	mg/kg	5.230	34.03%
Co 228.616†	15.7	0.02389	mg/L	0.006207	3.961	mg/kg	1.0291	25.98%
Co 230.786†	16.3	0.01710	mg/L	0.010419	2.834	mg/kg	1.7272	60.94%
Co 238.892†	285.9	0.06013	mg/L	0.021368	9.969	mg/kg	3.5424	35.54%
Cr 205.560†	39.7	0.3168	mg/L	0.01247	52.53	mg/kg	2.067	3.93%
Cr 267.716†	262.5	0.3263	mg/L	0.00251	54.10	mg/kg	0.417	0.77%
Cr 283.563†	1989.4	0.3129	mg/L	0.00490	51.87	mg/kg	0.813	1.57%
Cu 224.700†	182.0	0.6690	mg/L	0.00303	110.9	mg/kg	0.50	0.45%
Cu 324.752†	4026.2	0.6716	mg/L	0.00877	111.3	mg/kg	1.45	1.31%
Cu 327.393†	1772.6	0.6680	mg/L	0.01074	110.7	mg/kg	1.78	1.61%
Fe 238.204†	432882.7	284.7	mg/L	0.72	47200	mg/kg	118.8	0.25%
Fe 239.562†	250405.7	285.8	mg/L	0.65	47380	mg/kg	108.0	0.23%
Fe 259.939†	830573.3	286.2	mg/L	0.70	47450	mg/kg	116.7	0.25%
Fe 273.955†	136734.7	319.7	mg/L	0.66	53000	mg/kg	110.0	0.21%
K 766.490†	1488.9	1.113	mg/L	0.0419	184.5	mg/kg	6.95	3.77%
Li 610.362†	469.1	0.03309	mg/L	0.109364	5.486	mg/kg	18.1307	330.48%
Li 670.784†	329.1	0.01057	mg/L	0.002949	1.752	mg/kg	0.4889	27.91%
Mg 279.077†	12269.5	39.10	mg/L	0.477	6482	mg/kg	79.1	1.22%
Mg 280.271†	1728375.0	36.46	mg/L	0.098	6044	mg/kg	16.3	0.27%
Mg 285.213†	148971.3	37.19	mg/L	0.029	6166	mg/kg	4.8	0.08%
Mn 257.610†	28795.8	2.451	mg/L	0.0232	406.3	mg/kg	3.84	0.95%
Mn 259.372†	30282.2	2.430	mg/L	0.0325	402.9	mg/kg	5.39	1.34%
Mn 260.568†	18029.0	2.453	mg/L	0.0246	406.7	mg/kg	4.08	1.00%
Mo 202.031†	5.8	0.5286	mg/L	0.18807	87.64	mg/kg	31.179	35.58%
Mo 203.845†	9.4	0.2716	mg/L	0.03892	45.03	mg/kg	6.452	14.33%
Mo 204.597†	10.1	0.1686	mg/L	0.05886	27.96	mg/kg	9.758	34.91%
Na 588.995†	3121.6	0.5360	mg/L	0.07792	88.86	mg/kg	12.918	14.54%
Na 589.592†	2158.3	0.5531	mg/L	0.02762	91.69	mg/kg	4.579	4.99%
Ni 221.648†	19.8	0.2538	mg/L	0.03786	42.08	mg/kg	6.276	14.92%
Ni 231.604†	89.7	0.3068	mg/L	0.00105	50.86	mg/kg	0.174	0.34%
Ni 232.003†	55.7	0.3038	mg/L	0.02391	50.36	mg/kg	3.963	7.87%
Pb 217.000†	103.6	4.540	mg/L	0.1262	752.7	mg/kg	20.92	2.78%

Pb 220.353†	191.8	4.441	mg/L	0.1311	736.2	mg/kg	21.74	2.95%
Sb 206.836†	2.9	0.1254	mg/L	0.07469	20.78	mg/kg	12.382	59.58%
Sb 217.582†	0.4	-0.06680	mg/L	0.091317	-11.07	mg/kg	15.139	136.70%
Sb 231.146†	0.0	-0.02865	mg/L	0.030682	-4.750	mg/kg	5.0866	107.08%
Se 196.026†	-2.2	-0.3601	mg/L	0.30683	-59.69	mg/kg	50.867	85.22%
Se 203.985†	4.2	0.3996	mg/L	0.21247	66.25	mg/kg	35.225	53.17%
Sn 189.927†	5.0	0.5936	mg/L	0.10131	98.41	mg/kg	16.795	17.07%
Sn 235.485†	4097.6	-4.112	mg/L	1.0029	-681.7	mg/kg	166.26	24.39%
Sn 283.998†	53.5	0.2864	mg/L	0.00541	47.48	mg/kg	0.897	1.89%
Sr 407.771†	28410.2	0.08843	mg/L	0.000906	14.66	mg/kg	0.150	1.02%
Sr 421.552†	12939.9	0.08934	mg/L	0.000619	14.81	mg/kg	0.103	0.69%
Sr 460.733†	171.3	0.07630	mg/L	0.027255	12.65	mg/kg	4.518	35.72%
Ti 334.940†	12881.6	0.6524	mg/L	0.00517	108.2	mg/kg	0.86	0.79%
Ti 336.121†	9081.7	0.6517	mg/L	0.01000	108.0	mg/kg	1.66	1.53%
Ti 337.279†	4702.5	0.6447	mg/L	0.00479	106.9	mg/kg	0.79	0.74%
Tl 190.801†	1.1	0.1857	mg/L	0.28283	30.79	mg/kg	46.889	152.30%
Tl 276.787†	182.8	0.8993	mg/L	0.21686	149.1	mg/kg	35.95	24.11%
Tl 351.924†	-2.3	-0.02997	mg/L	0.007686	-4.968	mg/kg	1.2742	25.65%
V 290.880†	246.1	0.07854	mg/L	0.003939	13.02	mg/kg	0.653	5.01%
V 309.310†	1439.6	0.1032	mg/L	0.00507	17.11	mg/kg	0.841	4.92%
V 310.230†	654.7	0.08918	mg/L	0.000823	14.78	mg/kg	0.136	0.92%
Zn 202.548†	1226.3	4.542	mg/L	0.0628	753.1	mg/kg	10.42	1.38%
Zn 206.200†	1396.3	4.591	mg/L	0.0585	761.1	mg/kg	9.70	1.27%
Zn 213.857†	2226.8	4.691	mg/L	0.0605	777.6	mg/kg	10.03	1.29%

Sequence No.: 39
Sample ID: 0305007-24
Analyst:
Sample Wt: 0.5418 g
Dilution: 1X

Autosampler Location: 57
Date Collected: 8/19/03 1:39:52 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:05:57 AM,

Mean Data: 0305007-24

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161516.7						3997.10	2.47%
Ag 328.068†	1.4	0.00278	mg/L	0.001512	0.5130	mg/kg	0.27916	54.42%
Ag 338.289†	-32.2	-0.00196	mg/L	0.002934	-0.3625	mg/kg	0.54147	149.39%
Al 308.215†	3862.9	6.191	mg/L	0.1297	1143	mg/kg	23.9	2.09%
Al 394.401†	5342.7	6.436	mg/L	0.0290	1188	mg/kg	5.4	0.45%
Al 396.153†	12206.5	6.628	mg/L	0.0114	1223	mg/kg	2.1	0.17%
As 188.979†	3.1	0.3365	mg/L	0.13763	62.11	mg/kg	25.402	40.90%
As 193.696†	0.8	0.2253	mg/L	0.42406	41.59	mg/kg	78.268	188.20%
As 197.197†	-4.1	-0.3100	mg/L	0.21940	-57.21	mg/kg	40.494	70.78%
B 208.889†	4.2	0.04543	mg/L	0.012643	8.385	mg/kg	2.3335	27.83%
B 249.677†	11.5	0.03066	mg/L	0.009833	5.659	mg/kg	1.8149	32.07%
B 249.772†	101.0	0.01727	mg/L	0.003967	3.188	mg/kg	0.7322	22.97%
Ba 233.527†	288.4	0.1402	mg/L	0.00442	25.87	mg/kg	0.815	3.15%
Ba 455.403†	18449.2	0.1594	mg/L	0.00130	29.42	mg/kg	0.241	0.82%
Ba 493.408†	17825.5	0.1571	mg/L	0.00158	29.00	mg/kg	0.292	1.01%
Be 234.861†	177.3	0.00184	mg/L	0.001232	0.3391	mg/kg	0.22731	67.04%
Be 313.042†	51.4	0.00050	mg/L	0.000153	0.09270	mg/kg	0.028213	30.44%
Be 313.107†	28.6	0.00081	mg/L	0.000132	0.1493	mg/kg	0.02435	16.31%
Ca 315.887†	320187.2	174.2	mg/L	4.98	32160	mg/kg	919.8	2.86%
Ca 317.933†	308479.0	164.1	mg/L	4.66	30290	mg/kg	859.7	2.84%
Cd 214.440†	8.8	0.00796	mg/L	0.001072	1.470	mg/kg	0.1979	13.46%
Cd 226.502†	6.7	0.00628	mg/L	0.005037	1.160	mg/kg	0.9297	80.18%
Cd 228.802†	7.0	0.00940	mg/L	0.004779	1.734	mg/kg	0.8821	50.86%
Ce 413.380†	46.2	0.01166	mg/L	0.025313	2.152	mg/kg	4.6720	217.12%
Ce 413.764†	68.5	0.04697	mg/L	0.005877	8.669	mg/kg	1.0848	12.51%
Ce 418.660†	77.7	0.04645	mg/L	0.010272	8.573	mg/kg	1.8960	22.11%
Co 228.616†	7.9	0.01322	mg/L	0.004559	2.440	mg/kg	0.8414	34.49%
Co 230.786†	12.8	0.01541	mg/L	0.005046	2.845	mg/kg	0.9314	32.74%
Co 238.892†	139.3	0.01015	mg/L	0.018920	1.873	mg/kg	3.4921	186.40%
Cr 205.560†	15.7	0.1241	mg/L	0.01093	22.91	mg/kg	2.018	8.81%
Cr 267.716†	98.1	0.1234	mg/L	0.00674	22.79	mg/kg	1.244	5.46%
Cr 283.563†	804.0	0.1104	mg/L	0.00433	20.38	mg/kg	0.800	3.93%
Cu 224.700†	76.6	0.2721	mg/L	0.00547	50.22	mg/kg	1.010	2.01%
Cu 324.752†	1610.7	0.2681	mg/L	0.00636	49.48	mg/kg	1.173	2.37%
Cu 327.393†	722.4	0.2695	mg/L	0.00396	49.75	mg/kg	0.730	1.47%

Fe 238.204†	229480.3	150.9	mg/L	0.34	27860	mg/kg	62.6	0.22%
Fe 239.562†	131749.6	150.4	mg/L	0.21	27760	mg/kg	38.8	0.14%
Fe 259.939†	440081.5	151.7	mg/L	4.18	27990	mg/kg	770.6	2.75%
Fe 273.955†	71577.9	167.4	mg/L	0.27	30890	mg/kg	49.6	0.16%
K 766.490†	1051.1	0.7858	mg/L	0.04485	145.0	mg/kg	8.28	5.71%
Li 610.362†	649.9	0.05976	mg/L	0.214576	11.03	mg/kg	39.604	359.08%
Li 670.784†	296.2	0.00978	mg/L	0.002387	1.806	mg/kg	0.4406	24.40%
Mg 279.077†	27859.2	88.96	mg/L	0.418	16420	mg/kg	77.2	0.47%
Mg 280.271†	3799412.7	80.19	mg/L	2.233	14800	mg/kg	412.1	2.78%
Mg 285.213†	334746.5	83.62	mg/L	2.328	15430	mg/kg	429.7	2.78%
Mn 257.610†	11832.2	1.005	mg/L	0.0007	185.5	mg/kg	0.12	0.07%
Mn 259.372†	12869.8	0.9961	mg/L	0.00148	183.8	mg/kg	0.27	0.15%
Mn 260.568†	7494.7	1.017	mg/L	0.0045	187.7	mg/kg	0.83	0.44%
Mo 202.031†	11.1	1.041	mg/L	0.1309	192.1	mg/kg	24.17	12.58%
Mo 203.845†	3.5	0.1075	mg/L	0.03399	19.85	mg/kg	6.274	31.61%
Mo 204.597†	1.7	0.02736	mg/L	0.027752	5.049	mg/kg	5.1221	101.45%
Na 588.995†	2505.1	0.4301	mg/L	0.10156	79.39	mg/kg	18.745	23.61%
Na 589.592†	1553.7	0.3982	mg/L	0.00968	73.49	mg/kg	1.786	2.43%
Ni 221.648†	9.6	0.1316	mg/L	0.04139	24.29	mg/kg	7.640	31.46%
Ni 231.604†	35.5	0.1211	mg/L	0.01009	22.34	mg/kg	1.863	8.34%
Ni 232.003†	19.3	0.1104	mg/L	0.01821	20.37	mg/kg	3.361	16.50%
Pb 217.000†	78.2	3.482	mg/L	0.2172	642.7	mg/kg	40.09	6.24%
Pb 220.353†	153.2	3.477	mg/L	0.1150	641.8	mg/kg	21.23	3.31%
Sb 206.836†	3.4	0.1317	mg/L	0.08846	24.30	mg/kg	16.328	67.19%
Sb 217.582†	-1.7	-0.08646	mg/L	0.097419	-15.96	mg/kg	17.981	112.68%
Sb 231.146†	0.6	0.01791	mg/L	0.146150	3.306	mg/kg	26.9748	815.93%
Se 196.026†	-3.6	-0.5298	mg/L	0.19553	-97.78	mg/kg	36.089	36.91%
Se 203.985†	4.9	0.5886	mg/L	0.10726	108.6	mg/kg	19.80	18.22%
Sn 189.927†	2.0	0.2094	mg/L	0.18410	38.66	mg/kg	33.979	87.90%
Sn 235.485†	2089.5	-3.597	mg/L	1.0973	-663.9	mg/kg	202.52	30.50%
Sn 283.998†	-10.7	0.09840	mg/L	0.008539	18.16	mg/kg	1.576	8.68%
Sr 407.771†	23151.0	0.06987	mg/L	0.000605	12.90	mg/kg	0.112	0.87%
Sr 421.552†	10424.0	0.06992	mg/L	0.000861	12.91	mg/kg	0.159	1.23%
Sr 460.733†	101.3	0.03834	mg/L	0.071660	7.077	mg/kg	13.2263	186.88%
Ti 334.940†	7005.8	0.3581	mg/L	0.00344	66.10	mg/kg	0.634	0.96%
Ti 336.121†	4945.4	0.3520	mg/L	0.00430	64.97	mg/kg	0.794	1.22%
Ti 337.279†	2562.0	0.3508	mg/L	0.00588	64.75	mg/kg	1.085	1.68%
Tl 190.801†	0.9	0.2059	mg/L	0.10198	38.00	mg/kg	18.822	49.53%
Tl 276.787†	364.6	1.818	mg/L	0.2784	335.6	mg/kg	51.39	15.31%
Tl 351.924†	-12.5	-0.09039	mg/L	0.030112	-16.68	mg/kg	5.558	33.31%
V 290.880†	24.4	0.02158	mg/L	0.006606	3.982	mg/kg	1.2192	30.62%
V 309.310†	2235.6	0.05755	mg/L	0.002829	10.62	mg/kg	0.522	4.92%
V 310.230†	297.8	0.03958	mg/L	0.005337	7.306	mg/kg	0.9850	13.48%
Zn 202.548†	818.3	3.029	mg/L	0.0568	559.1	mg/kg	10.49	1.88%
Zn 206.200†	935.9	3.076	mg/L	0.0544	567.7	mg/kg	10.05	1.77%
Zn 213.857†	1507.1	3.171	mg/L	0.0731	585.2	mg/kg	13.50	2.31%

==========

Sequence No.: 40
Sample ID: AsTi
Analyst:
Sample Wt: 0 g
Dilution: 1X

Autosampler Location: 61
Date Collected: 8/19/03 1:43:41 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:06:03 AM,

Mean Data: AsTi

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	164142.6						2787.19	1.70%
Ag 328.068†	-755.3	-0.01808	mg/L	0.001722	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	51.6	-0.00810	mg/L	0.008595	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	46.8	-0.01428	mg/L	0.008447	0.000	mg/kg	0.0000	0.00%
Al 394.401†	24.6	0.02272	mg/L	0.006721	0.000	mg/kg	0.0000	0.00%
Al 396.153†	33.8	0.01324	mg/L	0.005760	0.000	mg/kg	0.0000	0.00%
As 188.979†	300.3	43.41	mg/L	1.136	0.000	mg/kg	0.0000	0.00%
As 193.696†	220.5	44.07	mg/L	0.685	0.000	mg/kg	0.0000	0.00%
As 197.197†	263.5	46.65	mg/L	1.341	0.000	mg/kg	0.0000	0.00%
B 208.889†	2.6	0.03010	mg/L	0.030786	0.000	mg/kg	0.0000	0.00%
B 249.677†	1.8	0.00356	mg/L	0.006208	0.00000	mg/kg	0.000000	0.00%
B 249.772†	5.4	0.00964	mg/L	0.003577	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	-0.3	-0.00405	mg/L	0.000296	0.000	mg/kg	0.0000	0.00%

Ba 455.403†	112.2	-0.00386 mg/L	0.000435	0.000 mg/kg	0.0000	0.00%
Ba 493.408†	189.9	-0.00319 mg/L	0.000386	0.000 mg/kg	0.0000	0.00%
Be 234.861†	1.7	0.00003 mg/L	0.000098	0.00000 mg/kg	0.000000	0.00%
Be 313.042†	28.9	0.00022 mg/L	0.000230	0.00000 mg/kg	0.000000	0.00%
Be 313.107†	20.8	-0.00026 mg/L	0.000754	0.00000 mg/kg	0.000000	0.00%
Ca 315.887†	176.8	0.09957 mg/L	0.021039	0.000 mg/kg	0.0000	0.00%
Ca 317.933†	143.6	0.07092 mg/L	0.014528	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	1.1	0.00292 mg/L	0.001854	0.000 mg/kg	0.0000	0.00%
Cd 226.502†	0.4	-0.00484 mg/L	0.006629	0.00000 mg/kg	0.000000	0.00%
Cd 228.802†	327.7	-0.09559 mg/L	0.005506	0.000 mg/kg	0.0000	0.00%
Ce 413.380†	3.8	-0.00207 mg/L	0.006781	0.00000 mg/kg	0.000000	0.00%
Ce 413.764†	17.2	-0.00002 mg/L	0.006478	0.00000 mg/kg	0.000000	0.00%
Ce 418.660†	-1.2	-0.01894 mg/L	0.002866	0.000 mg/kg	0.0000	0.00%
Co 228.616†	34.3	-0.00016 mg/L	0.004127	0.00000 mg/kg	0.000000	0.00%
Co 230.786†	-2.6	-0.00586 mg/L	0.003136	0.000 mg/kg	0.0000	0.00%
Co 238.892†	-0.7	-0.00444 mg/L	0.003703	0.000 mg/kg	0.0000	0.00%
Cr 205.560†	-3.1	-0.01334 mg/L	0.004940	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	-0.4	-0.00420 mg/L	0.000550	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	7.6	-0.00244 mg/L	0.001400	0.000 mg/kg	0.0000	0.00%
Cu 224.700†	4.3	-0.00277 mg/L	0.012023	0.00000 mg/kg	0.000000	0.00%
Cu 324.752†	6.6	-0.00692 mg/L	0.001703	0.000 mg/kg	0.0000	0.00%
Cu 327.393†	36.8	-0.00335 mg/L	0.000719	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	202.0	0.1858 mg/L	0.01782	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	114.0	0.1814 mg/L	0.01650	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	370.5	0.1842 mg/L	0.01601	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	62.2	0.2017 mg/L	0.01838	0.000 mg/kg	0.0000	0.00%
K 766.490†	-57.1	-0.04272 mg/L	0.036094	0.000 mg/kg	0.0000	0.00%
Li 610.362†	411.9	0.02145 mg/L	0.129029	0.00000 mg/kg	0.000000	0.00%
Li 670.784†	-31.1	0.00184 mg/L	0.001052	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	14.6	0.05287 mg/L	0.014061	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	1897.1	0.04052 mg/L	0.008808	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	163.8	0.04367 mg/L	0.008139	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	20.0	-0.00124 mg/L	0.000156	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	27.8	-0.00136 mg/L	0.000223	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	13.9	-0.00078 mg/L	0.001003	0.00000 mg/kg	0.000000	0.00%
Mo 202.031†	-0.2	-0.02433 mg/L	0.133126	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	3.2	0.1328 mg/L	0.01520	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	0.2	-0.00235 mg/L	0.019426	0.00000 mg/kg	0.000000	0.00%
Na 588.995†	77.8	0.01336 mg/L	0.057216	0.00000 mg/kg	0.000000	0.00%
Na 589.592†	107.4	0.02752 mg/L	0.009687	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	-0.3	0.00562 mg/L	0.023071	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	0.6	-0.00597 mg/L	0.005678	0.00000 mg/kg	0.000000	0.00%
Ni 232.003†	-3.4	-0.01703 mg/L	0.016715	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	-0.2	0.04863 mg/L	0.044850	0.00000 mg/kg	0.000000	0.00%
Pb 220.353†	-2.7	-0.01610 mg/L	0.024669	0.00000 mg/kg	0.000000	0.00%
Sb 206.836†	0.0	-0.08523 mg/L	0.121439	0.00000 mg/kg	0.000000	0.00%
Sb 217.582†	-1.1	-0.1070 mg/L	0.04318	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	-0.3	-0.05312 mg/L	0.040913	0.000 mg/kg	0.0000	0.00%
Se 196.026†	-3.0	-0.6439 mg/L	0.09688	0.000 mg/kg	0.0000	0.00%
Se 203.985†	-0.6	-0.1284 mg/L	0.04602	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	1.7	0.1965 mg/L	0.12085	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	-1.2	-0.00140 mg/L	0.096962	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	-100.3	-0.03246 mg/L	0.014300	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	174.5	-0.00581 mg/L	0.000131	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	75.5	-0.00576 mg/L	0.000068	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-54.8	-0.01219 mg/L	0.006862	0.000 mg/kg	0.0000	0.00%
Ti 334.940†	948244.7	47.82 mg/L	0.218	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	664363.7	47.86 mg/L	0.228	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	346712.9	47.62 mg/L	0.231	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	1.2	0.1632 mg/L	0.39051	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	-4.9	-0.02011 mg/L	0.068218	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	14.3	-0.07482 mg/L	0.036799	0.000 mg/kg	0.0000	0.00%
V 290.880†	-3.7	0.00097 mg/L	0.001425	0.00000 mg/kg	0.000000	0.00%
V 309.310†	-17.4	-0.00122 mg/L	0.000088	0.000 mg/kg	0.0000	0.00%
V 310.230†	-39.9	-0.00654 mg/L	0.004324	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	16.8	0.07844 mg/L	0.002347	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	18.7	0.08226 mg/L	0.002807	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	28.2	0.07684 mg/L	0.002365	0.000 mg/kg	0.0000	0.00%

Sample ID: AlFe **Date Collected: 8/19/03 1:47:30 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:06:10 AM,**

Mean Data: AlFe

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163888.0						1633.95	1.00%
Ag 328.068†	3.8	0.00131	mg/L	0.002282	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-48.1	-0.00371	mg/L	0.000874	0.000	mg/kg	0.0000	0.00%
Al 308.215†	116886.2	187.9	mg/L	1.96	0.000	mg/kg	0.0000	0.00%
Al 394.401†	162824.5	194.2	mg/L	2.21	0.000	mg/kg	0.0000	0.00%
Al 396.153†	359313.6	195.8	mg/L	2.13	0.000	mg/kg	0.0000	0.00%
As 188.979†	0.5	0.08292	mg/L	0.033455	0.000	mg/kg	0.0000	0.00%
As 193.696†	2.0	0.3582	mg/L	0.26067	0.000	mg/kg	0.0000	0.00%
As 197.197†	0.6	0.06343	mg/L	0.265509	0.00000	mg/kg	0.000000	0.00%
B 208.889†	0.3	0.01592	mg/L	0.012598	0.000	mg/kg	0.0000	0.00%
B 249.677†	-2.4	-0.00023	mg/L	0.001534	0.00000	mg/kg	0.000000	0.00%
B 249.772†	96.3	-0.00863	mg/L	0.003327	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	25.1	-0.00421	mg/L	0.003703	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	65.7	0.00030	mg/L	0.000516	0.00000	mg/kg	0.000000	0.00%
Ba 493.408†	289.0	0.00075	mg/L	0.000293	0.000	mg/kg	0.0000	0.00%
Be 234.861†	178.0	-0.00076	mg/L	0.001501	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-3.1	-0.00013	mg/L	0.000058	0.000	mg/kg	0.0000	0.00%
Be 313.107†	-1.3	-0.00007	mg/L	0.000138	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	34.6	0.02491	mg/L	0.004135	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	13.0	0.01340	mg/L	0.005177	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	-3.1	0.00212	mg/L	0.003452	0.00000	mg/kg	0.000000	0.00%
Cd 226.502†	8.4	0.00081	mg/L	0.002719	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	-0.3	-0.00219	mg/L	0.008691	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	35.0	-0.00671	mg/L	0.001856	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	22.5	0.00733	mg/L	0.007059	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	13.1	0.00009	mg/L	0.006759	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	3.9	0.00450	mg/L	0.005194	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	3.8	0.00046	mg/L	0.002230	0.00000	mg/kg	0.000000	0.00%
Co 238.892†	176.3	0.02643	mg/L	0.015155	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	-1.2	-0.00832	mg/L	0.011342	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	-1.4	0.00433	mg/L	0.003910	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	361.3	-0.01149	mg/L	0.001115	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	8.3	0.01058	mg/L	0.013898	0.00000	mg/kg	0.000000	0.00%
Cu 324.752†	42.5	0.00213	mg/L	0.001389	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	20.1	0.00432	mg/L	0.000264	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	275385.6	181.1	mg/L	1.98	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	158758.7	181.2	mg/L	2.32	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	526949.4	181.6	mg/L	2.04	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	87192.8	203.9	mg/L	4.43	0.000	mg/kg	0.0000	0.00%
K 766.490†	-32.9	-0.02463	mg/L	0.102640	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	392.9	0.06059	mg/L	0.067616	0.000	mg/kg	0.0000	0.00%
Li 670.784†	159.5	0.00544	mg/L	0.002015	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	13.6	-0.02334	mg/L	0.021391	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	306.5	-0.01296	mg/L	0.001324	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	23.9	-0.01222	mg/L	0.001346	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	44.2	0.00047	mg/L	0.001276	0.00000	mg/kg	0.000000	0.00%
Mn 259.372†	2399.9	-0.00912	mg/L	0.003449	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	91.6	0.00250	mg/L	0.001048	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	-0.9	-0.1150	mg/L	0.04516	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	5.5	0.09329	mg/L	0.110615	0.00000	mg/kg	0.000000	0.00%
Mo 204.597†	0.4	-0.01756	mg/L	0.038800	0.00000	mg/kg	0.000000	0.00%
Na 588.995†	-236.0	-0.04051	mg/L	0.026898	0.000	mg/kg	0.0000	0.00%
Na 589.592†	79.3	0.02033	mg/L	0.012835	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	-0.3	-0.00152	mg/L	0.033533	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	0.9	0.00002	mg/L	0.008310	0.00000	mg/kg	0.000000	0.00%
Ni 232.003†	0.6	0.00124	mg/L	0.029018	0.00000	mg/kg	0.000000	0.00%
Pb 217.000†	12.9	0.02882	mg/L	0.103966	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	-9.9	0.05198	mg/L	0.022562	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-0.5	-0.03627	mg/L	0.033062	0.00000	mg/kg	0.000000	0.00%
Sb 217.582†	2.5	-0.01452	mg/L	0.052160	0.00000	mg/kg	0.000000	0.00%
Sb 231.146†	0.9	0.03992	mg/L	0.046190	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-1.2	-0.2469	mg/L	0.03339	0.000	mg/kg	0.0000	0.00%

Se 203.985†	1.9	-0.03849	mg/L	0.369530	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	0.7	0.07956	mg/L	0.102528	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	2525.9	-4.884	mg/L	1.2235	0.000	mg/kg	0.0000	0.00%
Sn 283.998†	-39.4	0.03236	mg/L	0.001504	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	-10.0	-0.00006	mg/L	0.000177	0.00000	mg/kg	0.000000	0.00%
Sr 421.552†	57.5	-0.00004	mg/L	0.000009	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	-77.9	-0.04033	mg/L	0.037823	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	241.8	0.01092	mg/L	0.003307	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	169.6	0.01090	mg/L	0.003900	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	95.2	0.01127	mg/L	0.002468	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	2.6	0.4481	mg/L	0.30269	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	8.8	0.01645	mg/L	0.134859	0.00000	mg/kg	0.000000	0.00%
Tl 351.924†	-10.3	-0.08030	mg/L	0.069981	0.000	mg/kg	0.0000	0.00%
V 290.880†	25.3	-0.00507	mg/L	0.001682	0.000	mg/kg	0.0000	0.00%
V 309.310†	807.6	0.00203	mg/L	0.003684	0.00000	mg/kg	0.000000	0.00%
V 310.230†	-41.9	-0.00784	mg/L	0.002679	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	13.8	0.05120	mg/L	0.010563	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	12.1	0.05023	mg/L	0.005907	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	27.0	0.05339	mg/L	0.002261	0.000	mg/kg	0.0000	0.00%

Sequence No.: 42 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 8/19/03 1:51:21 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:06:17 AM,**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	165046.5						4860.48	2.94%
Ag 328.068†	0.2	0.00006	mg/L	0.000827				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	5.4	0.00194	mg/L	0.002862				147.40%
Al 308.215†	22.2	0.03569	mg/L	0.014288				40.03%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	30.7	0.03641	mg/L	0.012989				35.67%
Al 396.153†	67.1	0.03673	mg/L	0.006342				17.27%
As 188.979†	1.0	0.1494	mg/L	0.10825				72.46%
As 193.696†	0.8	0.1531	mg/L	0.17040				111.32%
As 197.197†	-0.1	-0.00928	mg/L	0.315792				>999.9%
B 208.889†	-1.0	-0.01648	mg/L	0.031383				190.47%
B 249.677†	1.8	0.00418	mg/L	0.008113				194.21%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	1.9	0.00188	mg/L	0.005265				279.85%
Ba 233.527†	1.5	0.00076	mg/L	0.002587				339.76%
Ba 455.403†	-8.7	-0.00009	mg/L	0.000114				133.36%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	88.1	0.00077	mg/L	0.000643				83.14%
Be 234.861†	-1.7	-0.00015	mg/L	0.000188				128.38%
Be 313.042†	-1.8	-0.00003	mg/L	0.000084				312.13%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	1.5	0.00004	mg/L	0.000114				260.35%
Ca 315.887†	13.7	0.00743	mg/L	0.006361				85.58%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	-5.2	-0.00281	mg/L	0.007373				262.84%
Cd 214.440†	0.2	0.00029	mg/L	0.000453				153.94%
Cd 226.502†	-0.4	-0.00072	mg/L	0.002267				314.61%
Cd 228.802†	2.6	0.00157	mg/L	0.004690				299.43%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	2.7	0.00248	mg/L	0.010045				404.89%
Ce 413.764†	8.7	0.00736	mg/L	0.004708				64.01%
Ce 418.660†	0.5	0.00034	mg/L	0.015265				>999.9%
Co 228.616†	2.2	0.00399	mg/L	0.002700				67.68%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-1.7	-0.00290	mg/L	0.002307				79.56%
Co 238.892†	-2.2	-0.00458	mg/L	0.004371				95.54%
Cr 205.560†	-0.8	-0.00671	mg/L	0.020765				309.44%
Cr 267.716†	4.0	0.00491	mg/L	0.003384				68.85%
Cr 283.563†	-0.4	-0.00012	mg/L	0.001056				868.91%

QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	-2.8	-0.01091	mg/L	0.008890	81.48%
Cu 324.752†	-6.0	-0.00099	mg/L	0.000852	85.68%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	10.0	0.00383	mg/L	0.000629	16.41%
Fe 238.204†	114.5	0.07539	mg/L	0.009003	11.94%
Fe 239.562†	61.7	0.07048	mg/L	0.010390	14.74%
Fe 259.939†	211.2	0.07283	mg/L	0.011523	15.82%
Fe 273.955†	32.4	0.07584	mg/L	0.021218	27.98%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	-128.9	-0.09639	mg/L	0.013394	13.90%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	199.5	0.03716	mg/L	0.221152	595.16%
Li 670.784†	-203.4	-0.00557	mg/L	0.001312	23.56%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	-4.6	-0.01479	mg/L	0.008494	57.44%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	165.4	0.00348	mg/L	0.000313	8.97%
Mg 285.213†	13.8	0.00345	mg/L	0.000675	19.57%
Mn 257.610†	6.1	0.00052	mg/L	0.000050	9.50%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	3.9	0.00030	mg/L	0.000464	154.30%
Mn 260.568†	3.8	0.00051	mg/L	0.000223	43.34%
Mo 202.031†	-1.0	-0.1135	mg/L	0.01418	12.49%
Mo 203.845†	1.2	0.03927	mg/L	0.093444	237.98%
Mo 204.597†	-0.3	-0.00464	mg/L	0.019704	424.70%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	-290.5	-0.04987	mg/L	0.090311	181.08%
Na 589.592†	-88.5	-0.02268	mg/L	0.016967	74.80%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.4	0.00513	mg/L	0.019514	380.52%
Ni 231.604†	1.4	0.00481	mg/L	0.002172	45.18%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-3.6	-0.02046	mg/L	0.015039	73.49%
Pb 217.000†	-0.5	-0.02446	mg/L	0.065990	269.77%
Pb 220.353†	-0.5	-0.01184	mg/L	0.016336	138.03%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.2	-0.01085	mg/L	0.019606	180.69%
Sb 217.582†	0.0	0.00154	mg/L	0.034907	>999.9%
Sb 231.146†	-1.1	-0.05270	mg/L	0.032132	60.97%
Se 196.026†	-1.7	-0.2425	mg/L	0.33798	139.35%
Se 203.985†	-1.7	-0.2244	mg/L	0.19509	86.93%
Sn 189.927†	1.2	0.1428	mg/L	0.34467	241.29%
Sn 235.485†	1.3	0.00728	mg/L	0.098179	>999.9%
Sn 283.998†	2.1	0.00908	mg/L	0.006145	67.68%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	20.8	0.00006	mg/L	0.000177	274.52%
Sr 421.552†	13.0	0.00009	mg/L	0.000100	110.74%
Sr 460.733†	-56.1	-0.02763	mg/L	0.020439	73.98%
Ti 334.940†	74.4	0.00376	mg/L	0.000607	16.17%
Ti 336.121†	50.0	0.00360	mg/L	0.000784	21.75%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	37.6	0.00516	mg/L	0.000704	13.64%
Tl 190.801†	0.3	0.05431	mg/L	0.077139	142.03%
Tl 276.787†	1.0	0.01048	mg/L	0.063061	601.87%
Tl 351.924†	-1.1	-0.00719	mg/L	0.016113	224.15%
V 290.880†	-8.1	-0.00285	mg/L	0.001824	63.95%
V 309.310†	0.7	0.00013	mg/L	0.000815	625.64%
V 310.230†	-41.0	-0.00562	mg/L	0.004293	76.44%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	3.4	0.01266	mg/L	0.002249	17.76%
Zn 206.200†	4.1	0.01350	mg/L	0.005390	39.92%
Zn 213.857†	5.8	0.01234	mg/L	0.001022	8.28%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analytes passed QC.

Sequence No.: 43 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 1:55:05 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**

Dilution: Data Type: Reprocessed on 8/20/03 9:06:24 AM,

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	161826.3						1710.57	1.06%
Ag 328.068†	1219.1	0.2488	mg/L	0.00362				1.46%
QC value within limits for Ag 328.068 Recovery = 99.53%								
Ag 338.289†	698.5	0.2527	mg/L	0.00171				0.68%
Al 308.215†	626.2	0.9851	mg/L	0.01307				1.33%
QC value within limits for Al 308.215 Recovery = 98.51%								
Al 394.401†	922.9	1.034	mg/L	0.0221				2.14%
Al 396.153†	1886.8	1.034	mg/L	0.0113				1.09%
As 188.979†	14.8	2.137	mg/L	0.2354				11.02%
As 193.696†	9.9	1.973	mg/L	0.1384				7.01%
As 197.197†	10.4	1.828	mg/L	0.1937				10.60%
B 208.889†	55.0	0.9448	mg/L	0.00814				0.86%
B 249.677†	409.8	0.9489	mg/L	0.01362				1.44%
QC value within limits for B 249.677 Recovery = 94.89%								
B 249.772†	928.9	0.9498	mg/L	0.01024				1.08%
Ba 233.527†	1817.1	0.9721	mg/L	0.00471				0.48%
Ba 455.403†	119095.0	1.031	mg/L	0.0033				0.32%
QC value within limits for Ba 455.403 Recovery = 103.13%								
Ba 493.408†	114348.3	1.018	mg/L	0.0057				0.56%
Be 234.861†	12056.2	0.9773	mg/L	0.01699				1.74%
Be 313.042†	64660.9	0.9778	mg/L	0.01274				1.30%
QC value within limits for Be 313.042 Recovery = 97.78%								
Be 313.107†	34182.0	0.9732	mg/L	0.01644				1.69%
Ca 315.887†	1993.9	1.081	mg/L	0.0057				0.53%
Ca 317.933†	1888.2	1.002	mg/L	0.0112				1.12%
QC value within limits for Ca 317.933 Recovery = 100.23%								
Cd 214.440†	818.2	0.9829	mg/L	0.00603				0.61%
Cd 226.502†	510.3	0.9761	mg/L	0.00517				0.53%
Cd 228.802†	730.7	0.9399	mg/L	0.01241				1.32%
QC value within limits for Cd 228.802 Recovery = 93.99%								
Ce 413.380†	1077.8	0.9823	mg/L	0.03290				3.35%
Ce 413.764†	1180.1	0.9946	mg/L	0.00994				1.00%
Ce 418.660†	1602.6	1.030	mg/L	0.0184				1.79%
Co 228.616†	519.4	0.9438	mg/L	0.01164				1.23%
QC value within limits for Co 228.616 Recovery = 94.38%								
Co 230.786†	564.4	0.9494	mg/L	0.00771				0.81%
Co 238.892†	471.5	0.9378	mg/L	0.01572				1.68%
Cr 205.560†	121.9	0.9664	mg/L	0.01155				1.20%
Cr 267.716†	787.7	0.9597	mg/L	0.00830				0.86%
Cr 283.563†	4233.6	0.9792	mg/L	0.01872				1.91%
QC value within limits for Cr 283.563 Recovery = 97.92%								
Cu 224.700†	247.2	0.9706	mg/L	0.00312				0.32%
Cu 324.752†	5984.1	1.009	mg/L	0.0160				1.59%
QC value within limits for Cu 324.752 Recovery = 100.89%								
Cu 327.393†	2597.3	0.9874	mg/L	0.00971				0.98%
Fe 238.204†	1666.9	1.104	mg/L	0.0033				0.30%
Fe 239.562†	947.8	1.089	mg/L	0.0080				0.73%
Fe 259.939†	3161.0	1.096	mg/L	0.0074				0.68%
QC value within limits for Fe 259.939 Recovery = 109.62%								
Fe 273.955†	508.9	1.191	mg/L	0.0068				0.57%
K 766.490†	6448.2	4.821	mg/L	0.0887				1.84%
QC value within limits for K 766.490 Recovery = 96.42%								
Li 610.362†	6720.7	1.230	mg/L	0.1229				9.99%
Li 670.784†	37757.2	1.035	mg/L	0.0124				1.20%
QC value less than the lower limit for Li 670.784 Recovery = 20.70%								
Mg 279.077†	320.5	1.023	mg/L	0.0177				1.73%
Mg 280.271†	47097.1	0.9934	mg/L	0.01151				1.16%
QC value within limits for Mg 280.271 Recovery = 99.34%								
Mg 285.213†	3890.5	0.9715	mg/L	0.00923				0.95%
Mn 257.610†	11781.4	1.005	mg/L	0.0108				1.07%
QC value within limits for Mn 257.610 Recovery = 100.47%								
Mn 259.372†	10864.8	1.001	mg/L	0.0078				0.78%
Mn 260.568†	7290.2	0.9975	mg/L	0.01416				1.42%
Mo 202.031†	-0.5	-0.05873	mg/L	0.115454				196.59%
Mo 203.845†	1.9	0.06334	mg/L	0.016507				26.06%

Mo 204.597†	1.6	0.02628	mg/L	0.025612	97.47%
Na 588.995†	5523.7	0.9485	mg/L	0.05686	5.99%
Na 589.592†	4131.7	1.059	mg/L	0.0239	2.26%
Ni 221.648†	75.8	0.9597	mg/L	0.02644	2.76%
Ni 231.604†	279.7	0.9691	mg/L	0.01068	1.10%
QC value within limits for Ni 231.604 Recovery = 96.91%					
Ni 232.003†	174.7	0.9696	mg/L	0.02874	2.96%
Pb 217.000†	40.9	1.934	mg/L	0.0704	3.64%
Pb 220.353†	81.4	1.886	mg/L	0.0369	1.95%
QC value within limits for Pb 220.353 Recovery = 94.30%					
Sb 206.836†	-0.4	-0.03593	mg/L	0.055349	154.07%
Sb 217.582†	-0.5	-0.03180	mg/L	0.088155	277.20%
Sb 231.146†	1.1	-0.06871	mg/L	0.049314	71.77%
Se 196.026†	5.7	0.7856	mg/L	0.03833	4.88%
Se 203.985†	8.3	0.9977	mg/L	0.14170	14.20%
Sn 189.927†	-0.3	-0.03731	mg/L	0.055863	149.72%
Sn 235.485†	14.7	-0.01547	mg/L	0.086665	560.17%
Sn 283.998†	143.8	-0.00644	mg/L	0.016260	252.33%
Sr 407.771†	318412.3	1.014	mg/L	0.0038	0.38%
Sr 421.552†	143657.4	1.022	mg/L	0.0031	0.31%
Sr 460.733†	2106.6	1.032	mg/L	0.0162	1.57%
Ti 334.940†	38.2	0.00151	mg/L	0.000223	14.77%
Ti 336.121†	15.3	0.00102	mg/L	0.000553	54.00%
Ti 337.279†	7.9	0.00119	mg/L	0.001736	146.04%
Tl 190.801†	23.0	4.640	mg/L	0.1207	2.60%
Tl 276.787†	417.7	4.415	mg/L	0.0501	1.13%
Tl 351.924†	752.1	4.881	mg/L	0.0790	1.62%
V 290.880†	2688.1	0.9483	mg/L	0.01629	1.72%
V 309.310†	6048.2	0.9573	mg/L	0.01300	1.36%
V 310.230†	7074.8	0.9672	mg/L	0.00417	0.43%
QC value within limits for V 310.230 Recovery = 96.72%					
Zn 202.548†	270.1	0.9968	mg/L	0.00238	0.24%
Zn 206.200†	306.1	1.006	mg/L	0.0057	0.56%
Zn 213.857†	477.8	1.008	mg/L	0.0099	0.98%
QC value within limits for Zn 213.857 Recovery = 100.82%					
QC Failed. Continue with analysis.					

==========

Sequence No.: 44 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 1:58:54 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:06:31 AM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160721.9						1277.59	0.79%
Ag 328.068†	-17.6	-0.00081	mg/L	0.001808				222.57%
Ag 338.289†	-9.3	-0.00269	mg/L	0.001409				52.43%
Al 308.215†	12.4	0.00859	mg/L	0.017632				205.28%
Al 394.401†	32.3	0.03832	mg/L	0.004055				10.58%
Al 396.153†	111.2	0.02656	mg/L	0.004560				17.17%
As 188.979†	-0.2	-0.03647	mg/L	0.226955				622.34%
As 193.696†	0.2	0.02855	mg/L	0.234422				821.14%
As 197.197†	-0.2	-0.03484	mg/L	0.288949				829.39%
B 208.889†	0.6	0.01111	mg/L	0.040982				368.75%
B 249.677†	-1.3	-0.00271	mg/L	0.007098				261.50%
B 249.772†	3.5	0.00378	mg/L	0.002087				55.21%
Ba 233.527†	-28.0	-0.01429	mg/L	0.001144				8.01%
Ba 455.403†	150.4	0.00121	mg/L	0.000062				5.10%
Ba 493.408†	237.4	0.00202	mg/L	0.000771				38.10%
Be 234.861†	2.9	0.00032	mg/L	0.000137				42.69%
Be 313.042†	20.6	0.00030	mg/L	0.000058				19.40%
Be 313.107†	7.2	0.00018	mg/L	0.000102				55.46%
Ca 315.887†	51.2	0.02807	mg/L	0.004691				16.71%
Ca 317.933†	27.1	0.01518	mg/L	0.003138				20.68%
Cd 214.440†	1.4	0.00176	mg/L	0.001580				89.80%
Cd 226.502†	0.4	0.00062	mg/L	0.002639				426.72%
Cd 228.802†	1.7	0.00170	mg/L	0.003988				234.91%

Ce 413.380†	-4.9	-0.00464 mg/L	0.002618	56.37%
Ce 413.764†	9.7	0.00778 mg/L	0.010219	131.40%
Ce 418.660†	13.8	0.00859 mg/L	0.005486	63.84%
Co 228.616†	5.3	0.00850 mg/L	0.000939	11.05%
Co 230.786†	-0.5	-0.00126 mg/L	0.005966	471.95%
Co 238.892†	-0.3	-0.00045 mg/L	0.001728	387.95%
Cr 205.560†	-1.6	-0.01306 mg/L	0.005216	39.94%
Cr 267.716†	8.6	0.01038 mg/L	0.002686	25.87%
Cr 283.563†	-0.5	-0.00033 mg/L	0.000987	295.25%
Cu 224.700†	0.3	-0.00256 mg/L	0.006894	269.30%
Cu 324.752†	9.1	-0.00094 mg/L	0.002148	227.93%
Cu 327.393†	9.5	0.00123 mg/L	0.002415	195.65%
Fe 238.204†	148.2	0.09962 mg/L	0.000565	0.57%
Fe 239.562†	82.5	0.09634 mg/L	0.002708	2.81%
Fe 259.939†	276.7	0.09763 mg/L	0.001592	1.63%
Fe 273.955†	41.3	0.09908 mg/L	0.018560	18.73%
K 766.490†	60.7	0.04540 mg/L	0.031139	68.59%
Li 610.362†	1240.0	0.2292 mg/L	0.07464	32.57%
Li 670.784†	91.5	0.00268 mg/L	0.001410	52.63%
Mg 279.077†	5.6	0.01853 mg/L	0.018026	97.28%
Mg 280.271†	259.4	0.00552 mg/L	0.000106	1.91%
Mg 285.213†	31.9	0.00806 mg/L	0.000430	5.33%
Mn 257.610†	22.8	0.00157 mg/L	0.000233	14.87%
Mn 259.372†	77.0	0.00176 mg/L	0.000375	21.28%
Mn 260.568†	14.7	0.00205 mg/L	0.000156	7.58%
Mo 202.031†	7.4	0.8711 mg/L	0.11439	13.13%
Mo 203.845†	29.7	0.9963 mg/L	0.08983	9.02%
Mo 204.597†	57.0	0.9892 mg/L	0.02238	2.26%
QC value within limits for Mo 204.597 Recovery = 98.92%				
Na 588.995†	-291.4	-0.05004 mg/L	0.010427	20.84%
Na 589.592†	258.1	0.06613 mg/L	0.015592	23.58%
Ni 221.648†	0.9	0.01124 mg/L	0.024147	214.83%
Ni 231.604†	0.5	0.00113 mg/L	0.001601	141.36%
Ni 232.003†	2.2	0.00726 mg/L	0.009912	136.53%
Pb 217.000†	1.5	0.07348 mg/L	0.103772	141.23%
Pb 220.353†	-1.3	-0.02622 mg/L	0.027935	106.54%
Sb 206.836†	45.7	2.065 mg/L	0.0989	4.79%
QC value within limits for Sb 206.836 Recovery = 103.27%				
Sb 217.582†	34.7	1.911 mg/L	0.0248	1.30%
QC value within limits for Sb 217.582 Recovery = 95.56%				
Sb 231.146†	36.5	1.827 mg/L	0.1649	9.02%
QC value within limits for Sb 231.146 Recovery = 91.37%				
Se 196.026†	-0.4	-0.06509 mg/L	0.300977	462.39%
Se 203.985†	0.8	0.04200 mg/L	0.136303	324.51%
Sn 189.927†	35.2	4.276 mg/L	0.0484	1.13%
Sn 235.485†	184.3	4.788 mg/L	0.1003	2.09%
Sn 283.998†	770.2	2.257 mg/L	0.0260	1.15%
QC value less than the lower limit for Sn 283.998 Recovery = 45.14%				
Sr 407.771†	169.5	0.00042 mg/L	0.000105	24.90%
Sr 421.552†	85.3	0.00049 mg/L	0.000126	25.68%
Sr 460.733†	-71.7	-0.03455 mg/L	0.046730	135.26%
Ti 334.940†	19576.6	0.9872 mg/L	0.00284	0.29%
Ti 336.121†	13604.2	0.9800 mg/L	0.00429	0.44%
QC value within limits for Ti 336.121 Recovery = 98.00%				
Ti 337.279†	7116.3	0.9774 mg/L	0.00536	0.55%
Tl 190.801†	0.3	0.05764 mg/L	0.347905	603.53%
Tl 276.787†	2.5	0.02796 mg/L	0.053104	189.96%
Tl 351.924†	-6.3	-0.04409 mg/L	0.053187	120.63%
V 290.880†	-5.8	-0.00211 mg/L	0.001659	78.66%
V 309.310†	-7.0	-0.00105 mg/L	0.001106	105.36%
V 310.230†	-8.3	-0.00108 mg/L	0.000749	69.08%
Zn 202.548†	7.4	0.02840 mg/L	0.001158	4.08%
Zn 206.200†	7.5	0.02553 mg/L	0.003489	13.67%
Zn 213.857†	11.3	0.02450 mg/L	0.001129	4.61%

QC Failed. Continue with analysis.

Sequence No.: 45 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 2:02:40 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**

Dilution: Data Type: Reprocessed on 8/20/03 9:06:37 AM,

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158809.6						735.26	0.46%
Ag 328.068†	4.1	0.00189	mg/L	0.000324				17.17%
Ag 338.289†	-21.5	-0.00159	mg/L	0.002940				185.09%
Al 308.215†	59461.2	95.57	mg/L	0.257				0.27%
QC value within limits for Al 308.215 Recovery = 95.57%								
Al 394.401†	82756.8	98.72	mg/L	0.281				0.29%
Al 396.153†	182556.3	99.45	mg/L	0.246				0.25%
As 188.979†	1.5	0.1493	mg/L	0.13238				88.67%
As 193.696†	0.3	0.07815	mg/L	0.195282				249.87%
As 197.197†	-4.2	-0.5203	mg/L	0.20011				38.46%
B 208.889†	0.5	0.00302	mg/L	0.007731				255.75%
B 249.677†	-5.7	-0.01091	mg/L	0.003779				34.64%
B 249.772†	43.5	-0.00809	mg/L	0.004021				49.70%
Ba 233.527†	12.0	-0.00250	mg/L	0.001598				64.05%
Ba 455.403†	103.1	0.00055	mg/L	0.000106				19.36%
Ba 493.408†	292.2	0.00150	mg/L	0.000535				35.70%
Be 234.861†	92.6	-0.00019	mg/L	0.001345				695.42%
Be 313.042†	9.9	-0.00004	mg/L	0.000040				111.15%
Be 313.107†	-1.5	-0.00005	mg/L	0.000103				189.46%
Ca 315.887†	188727.9	102.7	mg/L	0.18				0.17%
QC value within limits for Ca 315.887 Recovery = 102.70%								
Ca 317.933†	181074.1	96.34	mg/L	0.415				0.43%
Cd 214.440†	-2.0	-0.00003	mg/L	0.000786				>999.9%
Cd 226.502†	3.8	0.00277	mg/L	0.001109				39.98%
Cd 228.802†	1.5	0.00255	mg/L	0.000654				25.60%
Ce 413.380†	14.3	-0.00554	mg/L	0.010981				198.24%
Ce 413.764†	24.4	0.01274	mg/L	0.001191				9.35%
Ce 418.660†	15.7	0.00786	mg/L	0.016928				215.36%
Co 228.616†	0.1	-0.00008	mg/L	0.010170				>999.9%
Co 230.786†	1.8	-0.00064	mg/L	0.000909				142.43%
Co 238.892†	87.3	0.01022	mg/L	0.021614				211.42%
Cr 205.560†	1.4	0.01024	mg/L	0.005576				54.48%
Cr 267.716†	0.1	0.00333	mg/L	0.007453				223.94%
Cr 283.563†	169.6	-0.00721	mg/L	0.000567				7.87%
Cu 224.700†	6.0	0.00979	mg/L	0.012786				130.62%
Cu 324.752†	-17.4	-0.00538	mg/L	0.001088				20.22%
Cu 327.393†	8.1	-0.00042	mg/L	0.002311				556.80%
Fe 238.204†	141474.8	93.05	mg/L	0.326				0.35%
Fe 239.562†	80949.2	92.40	mg/L	0.320				0.35%
Fe 259.939†	269976.5	93.04	mg/L	0.257				0.28%
Fe 273.955†	43819.5	102.5	mg/L	0.35				0.34%
QC value within limits for Fe 273.955 Recovery = 102.46%								
K 766.490†	130423.3	97.51	mg/L	0.387				0.40%
Li 610.362†	1338.2	0.2159	mg/L	0.01020				4.72%
Li 670.784†	586.3	0.01733	mg/L	0.000679				3.92%
Mg 279.077†	18242.1	58.25	mg/L	0.179				0.31%
QC value within limits for Mg 279.077 Recovery = 97.08%								
Mg 280.271†	2586870.0	54.60	mg/L	1.118				2.05%
Mg 285.213†	221318.1	55.29	mg/L	0.122				0.22%
Mn 257.610†	29.5	-0.00018	mg/L	0.000319				173.38%
Mn 259.372†	1227.2	-0.00388	mg/L	0.000833				21.47%
Mn 260.568†	50.3	0.00089	mg/L	0.000500				56.12%
Mo 202.031†	6.2	0.5711	mg/L	0.06775				11.86%
Mo 203.845†	5.7	0.1560	mg/L	0.07446				47.74%
Mo 204.597†	0.4	-0.00384	mg/L	0.018058				470.44%
Na 588.995†	579220.9	99.46	mg/L	2.269				2.28%
Na 589.592†	384272.4	98.47	mg/L	2.254				2.29%
QC value within limits for Na 589.592 Recovery = 98.47%								
Ni 221.648†	1.3	0.02458	mg/L	0.045826				186.46%
Ni 231.604†	0.6	0.00067	mg/L	0.009722				>999.9%
Ni 232.003†	-3.1	-0.01502	mg/L	0.030058				200.14%
Pb 217.000†	8.4	0.07375	mg/L	0.043920				59.55%
Pb 220.353†	1.4	0.1224	mg/L	0.01391				11.36%
Sb 206.836†	-0.1	-0.02681	mg/L	0.089014				332.00%
Sb 217.582†	-1.3	-0.1054	mg/L	0.01121				10.64%

Sb 231.146†	-1.6	-0.08032	mg/L	0.069600	86.65%
Se 196.026†	-2.5	-0.3966	mg/L	0.15111	38.10%
Se 203.985†	2.3	0.1607	mg/L	0.54955	342.04%
Sn 189.927†	1.8	0.2032	mg/L	0.06683	32.89%
Sn 235.485†	1278.2	-2.227	mg/L	0.2043	9.17%
Sn 283.998†	-52.0	-0.04774	mg/L	0.018512	38.78%
Sr 407.771†	581.4	-0.00049	mg/L	0.000141	28.60%
Sr 421.552†	289.8	-0.00052	mg/L	0.000042	8.18%
Sr 460.733†	-17.1	-0.01558	mg/L	0.030413	195.21%
Ti 334.940†	-20.3	0.00115	mg/L	0.000250	21.67%
Ti 336.121†	52.7	0.00068	mg/L	0.000246	36.38%
Ti 337.279†	23.4	0.00187	mg/L	0.000208	11.09%
Tl 190.801†	0.7	0.1332	mg/L	0.46772	351.02%
Tl 276.787†	246.5	1.291	mg/L	0.0827	6.40%
Tl 351.924†	-4.5	-0.03725	mg/L	0.037565	100.85%
V 290.880†	-80.5	-0.02073	mg/L	0.001280	6.17%
V 309.310†	1675.4	0.00416	mg/L	0.004027	96.79%
V 310.230†	-3.5	-0.00237	mg/L	0.003108	131.02%
Zn 202.548†	6.3	0.01988	mg/L	0.001258	6.33%
Zn 206.200†	7.2	0.02900	mg/L	0.003594	12.39%
Zn 213.857†	22.8	0.04015	mg/L	0.000717	1.79%

All analytes passed QC.

==========

Sequence No.: 46
Sample ID: 0305007-25
Analyst:
Sample Wt: 0.5534 g
Dilution: 1X

Autosampler Location: 19
Date Collected: 8/19/03 2:07:18 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:06:43 AM,

Mean Data: 0305007-25

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158029.1						2833.11	1.79%
Ag 328.068†	-7.2	0.00121	mg/L	0.001410	0.2185	mg/kg	0.25483	116.64%
Ag 338.289†	-8.6	-0.00207	mg/L	0.000792	-0.3740	mg/kg	0.14310	38.26%
Al 308.215†	3242.8	5.189	mg/L	0.0954	937.6	mg/kg	17.24	1.84%
Al 394.401†	4443.8	5.351	mg/L	0.0545	966.9	mg/kg	9.85	1.02%
Al 396.153†	10249.7	5.559	mg/L	0.0279	1005	mg/kg	5.0	0.50%
As 188.979†	4.8	0.5685	mg/L	0.08322	102.7	mg/kg	15.04	14.64%
As 193.696†	-0.2	0.01982	mg/L	0.249070	3.582	mg/kg	45.0072	>999.9%
As 197.197†	-4.2	-0.3335	mg/L	0.32766	-60.26	mg/kg	59.208	98.26%
B 208.889†	3.7	0.04228	mg/L	0.035390	7.640	mg/kg	6.3951	83.71%
B 249.677†	2.7	0.00658	mg/L	0.002730	1.188	mg/kg	0.4934	41.53%
B 249.772†	30.4	0.01402	mg/L	0.002614	2.533	mg/kg	0.4724	18.65%
Ba 233.527†	70.3	0.03445	mg/L	0.002996	6.225	mg/kg	0.5415	8.70%
Ba 455.403†	4437.6	0.03803	mg/L	0.000329	6.871	mg/kg	0.0595	0.87%
Ba 493.408†	4337.4	0.03796	mg/L	0.000750	6.860	mg/kg	0.1354	1.97%
Be 234.861†	41.0	0.00050	mg/L	0.001547	0.08951	mg/kg	0.279470	312.21%
Be 313.042†	44.4	0.00041	mg/L	0.000058	0.07368	mg/kg	0.010495	14.24%
Be 313.107†	21.9	0.00062	mg/L	0.000302	0.1115	mg/kg	0.05452	48.89%
Ca 315.887†	320801.8	174.6	mg/L	4.59	31550	mg/kg	829.7	2.63%
Ca 317.933†	308480.2	164.1	mg/L	4.35	29660	mg/kg	786.7	2.65%
Cd 214.440†	2.1	0.00122	mg/L	0.002688	0.2196	mg/kg	0.48567	221.19%
Cd 226.502†	0.6	0.00375	mg/L	0.002642	0.6770	mg/kg	0.47741	70.52%
Cd 228.802†	0.4	0.00129	mg/L	0.003825	0.2335	mg/kg	0.69118	295.94%
Ce 413.380†	43.6	0.03417	mg/L	0.007332	6.174	mg/kg	1.3249	21.46%
Ce 413.764†	66.6	0.05107	mg/L	0.007927	9.229	mg/kg	1.4324	15.52%
Ce 418.660†	95.4	0.06304	mg/L	0.007970	11.39	mg/kg	1.440	12.64%
Co 228.616†	11.6	0.02169	mg/L	0.001210	3.920	mg/kg	0.2187	5.58%
Co 230.786†	11.3	0.01684	mg/L	0.000864	3.044	mg/kg	0.1562	5.13%
Co 238.892†	34.2	0.00903	mg/L	0.002223	1.633	mg/kg	0.4018	24.61%
Cr 205.560†	8.5	0.06557	mg/L	0.012263	11.85	mg/kg	2.216	18.70%
Cr 267.716†	38.2	0.04692	mg/L	0.003803	8.478	mg/kg	0.6873	8.11%
Cr 283.563†	267.6	0.04684	mg/L	0.001747	8.464	mg/kg	0.3157	3.73%
Cu 224.700†	17.7	0.06027	mg/L	0.011835	10.89	mg/kg	2.139	19.64%
Cu 324.752†	254.8	0.04144	mg/L	0.002132	7.488	mg/kg	0.3853	5.15%
Cu 327.393†	131.1	0.04561	mg/L	0.001886	8.241	mg/kg	0.3408	4.14%
Fe 238.204†	51334.8	33.77	mg/L	0.091	6102	mg/kg	16.5	0.27%
Fe 239.562†	29302.4	33.45	mg/L	0.052	6045	mg/kg	9.5	0.16%

Fe 259.939†	98006.5	33.78	mg/L	0.119	6104	mg/kg	21.4	0.35%
Fe 273.955†	15687.0	36.69	mg/L	0.059	6630	mg/kg	10.6	0.16%
K 766.490†	1192.1	0.8912	mg/L	0.03437	161.0	mg/kg	6.21	3.86%
Li 610.362†	1576.6	0.2437	mg/L	0.14024	44.04	mg/kg	25.342	57.54%
Li 670.784†	361.9	0.01128	mg/L	0.001498	2.038	mg/kg	0.2706	13.28%
Mg 279.077†	27917.3	89.18	mg/L	0.257	16120	mg/kg	46.5	0.29%
Mg 280.271†	3839431.2	81.05	mg/L	2.095	14650	mg/kg	378.5	2.58%
Mg 285.213†	337030.4	84.20	mg/L	2.180	15220	mg/kg	393.9	2.59%
Mn 257.610†	8778.9	0.7466	mg/L	0.00607	134.9	mg/kg	1.10	0.81%
Mn 259.372†	8496.4	0.7402	mg/L	0.00113	133.8	mg/kg	0.20	0.15%
Mn 260.568†	5460.5	0.7445	mg/L	0.00145	134.5	mg/kg	0.26	0.19%
Mo 202.031†	10.6	0.9944	mg/L	0.20645	179.7	mg/kg	37.31	20.76%
Mo 203.845†	5.1	0.1832	mg/L	0.01115	33.11	mg/kg	2.014	6.08%
Mo 204.597†	1.5	0.02733	mg/L	0.035663	4.938	mg/kg	6.4444	130.50%
Na 588.995†	2308.1	0.3963	mg/L	0.04122	71.62	mg/kg	7.449	10.40%
Na 589.592†	2011.5	0.5155	mg/L	0.01188	93.15	mg/kg	2.146	2.30%
Ni 221.648†	2.4	0.04218	mg/L	0.019953	7.622	mg/kg	3.6055	47.30%
Ni 231.604†	9.2	0.03140	mg/L	0.002613	5.674	mg/kg	0.4722	8.32%
Ni 232.003†	3.3	0.02350	mg/L	0.021404	4.247	mg/kg	3.8677	91.06%
Pb 217.000†	7.2	0.2425	mg/L	0.08189	43.82	mg/kg	14.798	33.77%
Pb 220.353†	12.6	0.2185	mg/L	0.05671	39.48	mg/kg	10.247	25.96%
Sb 206.836†	1.9	0.05893	mg/L	0.132766	10.65	mg/kg	23.991	225.29%
Sb 217.582†	-3.5	-0.1314	mg/L	0.04096	-23.74	mg/kg	7.402	31.18%
Sb 231.146†	-2.5	-0.1240	mg/L	0.00960	-22.41	mg/kg	1.735	7.74%
Se 196.026†	-5.5	-0.7888	mg/L	0.16693	-142.5	mg/kg	30.16	21.16%
Se 203.985†	1.2	0.1314	mg/L	0.24098	23.74	mg/kg	43.546	183.40%
Sn 189.927†	0.6	0.04274	mg/L	0.218368	7.723	mg/kg	39.4594	510.94%
Sn 235.485†	464.3	-0.6222	mg/L	0.25703	-112.4	mg/kg	46.45	41.31%
Sn 283.998†	-40.8	-0.06254	mg/L	0.004190	-11.30	mg/kg	0.757	6.70%
Sr 407.771†	18419.2	0.05466	mg/L	0.000208	9.877	mg/kg	0.0375	0.38%
Sr 421.552†	8323.2	0.05510	mg/L	0.000131	9.956	mg/kg	0.0236	0.24%
Sr 460.733†	84.6	0.03099	mg/L	0.019010	5.600	mg/kg	3.4352	61.34%
Ti 334.940†	9472.5	0.4825	mg/L	0.00146	87.18	mg/kg	0.263	0.30%
Ti 336.121†	6743.2	0.4816	mg/L	0.00337	87.02	mg/kg	0.608	0.70%
Ti 337.279†	3482.0	0.4774	mg/L	0.00796	86.27	mg/kg	1.439	1.67%
Tl 190.801†	0.6	0.1914	mg/L	0.77809	34.58	mg/kg	140.602	406.59%
Tl 276.787†	346.2	1.680	mg/L	0.2091	303.5	mg/kg	37.78	12.45%
Tl 351.924†	-5.5	-0.04122	mg/L	0.020561	-7.448	mg/kg	3.7154	49.88%
V 290.880†	-6.5	0.01812	mg/L	0.000801	3.274	mg/kg	0.1448	4.42%
V 309.310†	2227.4	0.04952	mg/L	0.006823	8.949	mg/kg	1.2330	13.78%
V 310.230†	256.3	0.03371	mg/L	0.002611	6.092	mg/kg	0.4717	7.74%
Zn 202.548†	136.1	0.4995	mg/L	0.01038	90.26	mg/kg	1.875	2.08%
Zn 206.200†	153.6	0.5058	mg/L	0.01499	91.40	mg/kg	2.709	2.96%
Zn 213.857†	257.7	0.5336	mg/L	0.00465	96.43	mg/kg	0.841	0.87%

Sequence No.: 47
Sample ID: b307012-dup4
Analyst:
Sample Wt: 0.5426 g
Dilution: 1X

Autosampler Location: 21
Date Collected: 8/19/03 2:11:08 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:06:49 AM,

Mean Data: b307012-dup4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159088.2						554.17	0.35%
Ag 328.068†	-14.0	-0.00033	mg/L	0.000752	-0.06126	mg/kg	0.138524	226.13%
Ag 338.289†	1.2	0.00155	mg/L	0.000856	0.2848	mg/kg	0.15772	55.37%
Al 308.215†	3276.5	5.244	mg/L	0.0608	966.5	mg/kg	11.21	1.16%
Al 394.401†	4534.2	5.456	mg/L	0.0647	1006	mg/kg	11.9	1.19%
Al 396.153†	10374.1	5.628	mg/L	0.0160	1037	mg/kg	2.9	0.28%
As 188.979†	2.4	0.2237	mg/L	0.13192	41.23	mg/kg	24.312	58.97%
As 193.696†	0.8	0.2235	mg/L	0.12395	41.20	mg/kg	22.844	55.45%
As 197.197†	-5.4	-0.5589	mg/L	0.19884	-103.0	mg/kg	36.65	35.58%
B 208.889†	3.8	0.04421	mg/L	0.011027	8.147	mg/kg	2.0322	24.94%
B 249.677†	6.8	0.01610	mg/L	0.006639	2.967	mg/kg	1.2236	41.23%
B 249.772†	30.4	0.01379	mg/L	0.001808	2.542	mg/kg	0.3332	13.11%
Ba 233.527†	62.0	0.02997	mg/L	0.002255	5.524	mg/kg	0.4156	7.52%
Ba 455.403†	4252.2	0.03642	mg/L	0.000154	6.713	mg/kg	0.0283	0.42%
Ba 493.408†	4079.7	0.03567	mg/L	0.000717	6.574	mg/kg	0.1322	2.01%

Be 234.861†	50.5	0.00125 mg/L	0.000383	0.2298 mg/kg	0.07058	30.71%
Be 313.042†	38.6	0.00033 mg/L	0.000021	0.06058 mg/kg	0.003890	6.42%
Be 313.107†	10.5	0.00029 mg/L	0.000169	0.05431 mg/kg	0.031220	57.49%
Ca 315.887†	305445.2	166.2 mg/L	1.61	30630 mg/kg	297.3	0.97%
Ca 317.933†	293572.7	156.2 mg/L	1.58	28790 mg/kg	291.5	1.01%
Cd 214.440†	2.2	0.00139 mg/L	0.003607	0.2560 mg/kg	0.66474	259.67%
Cd 226.502†	-1.5	-0.00054 mg/L	0.005815	-0.09924 mg/kg	1.071708	>999.9%
Cd 228.802†	1.0	-0.00040 mg/L	0.002779	-0.07344 mg/kg	0.512225	697.52%
Ce 413.380†	47.2	0.03734 mg/L	0.014548	6.881 mg/kg	2.6812	38.96%
Ce 413.764†	88.8	0.06995 mg/L	0.008039	12.89 mg/kg	1.482	11.49%
Ce 418.660†	99.0	0.06522 mg/L	0.003337	12.02 mg/kg	0.615	5.12%
Co 228.616†	11.0	0.02061 mg/L	0.000895	3.798 mg/kg	0.1649	4.34%
Co 230.786†	12.0	0.01811 mg/L	0.004845	3.337 mg/kg	0.8929	26.76%
Co 238.892†	38.7	0.01750 mg/L	0.005934	3.225 mg/kg	1.0936	33.91%
Cr 205.560†	6.8	0.05147 mg/L	0.015533	9.485 mg/kg	2.8626	30.18%
Cr 267.716†	43.1	0.05292 mg/L	0.002676	9.752 mg/kg	0.4932	5.06%
Cr 283.563†	264.6	0.04600 mg/L	0.001996	8.478 mg/kg	0.3679	4.34%
Cu 224.700†	14.4	0.04721 mg/L	0.017533	8.701 mg/kg	3.2312	37.14%
Cu 324.752†	266.2	0.04338 mg/L	0.001162	7.994 mg/kg	0.2142	2.68%
Cu 327.393†	144.6	0.05086 mg/L	0.002444	9.373 mg/kg	0.4504	4.81%
Fe 238.204†	51596.0	33.94 mg/L	0.025	6255 mg/kg	4.6	0.07%
Fe 239.562†	29518.0	33.70 mg/L	0.045	6211 mg/kg	8.3	0.13%
Fe 259.939†	98475.6	33.94 mg/L	0.064	6255 mg/kg	11.8	0.19%
Fe 273.955†	15785.6	36.92 mg/L	0.026	6804 mg/kg	4.8	0.07%
K 766.490†	1179.2	0.8816 mg/L	0.03367	162.5 mg/kg	6.21	3.82%
Li 610.362†	1587.8	0.2478 mg/L	0.02232	45.66 mg/kg	4.113	9.01%
Li 670.784†	263.6	0.00854 mg/L	0.000731	1.574 mg/kg	0.1348	8.56%
Mg 279.077†	27088.8	86.54 mg/L	0.369	15950 mg/kg	68.0	0.43%
Mg 280.271†	3642359.5	76.89 mg/L	0.774	14170 mg/kg	142.6	1.01%
Mg 285.213†	319201.6	79.75 mg/L	0.868	14700 mg/kg	159.9	1.09%
Mn 257.610†	8669.3	0.7373 mg/L	0.00552	135.9 mg/kg	1.02	0.75%
Mn 259.372†	8402.4	0.7314 mg/L	0.00437	134.8 mg/kg	0.81	0.60%
Mn 260.568†	5457.1	0.7441 mg/L	0.00310	137.1 mg/kg	0.57	0.42%
Mo 202.031†	10.0	0.9363 mg/L	0.28901	172.6 mg/kg	53.26	30.87%
Mo 203.845†	3.4	0.1240 mg/L	0.12892	22.86 mg/kg	23.760	103.95%
Mo 204.597†	1.1	0.01896 mg/L	0.021839	3.494 mg/kg	4.0250	115.20%
Na 588.995†	1788.0	0.3070 mg/L	0.00616	56.58 mg/kg	1.134	2.00%
Na 589.592†	1574.5	0.4035 mg/L	0.01654	74.36 mg/kg	3.048	4.10%
Ni 221.648†	3.7	0.05732 mg/L	0.017514	10.56 mg/kg	3.228	30.56%
Ni 231.604†	12.0	0.04091 mg/L	0.008764	7.539 mg/kg	1.6152	21.43%
Ni 232.003†	2.4	0.01874 mg/L	0.004555	3.453 mg/kg	0.8395	24.31%
Pb 217.000†	9.3	0.3444 mg/L	0.16125	63.47 mg/kg	29.718	46.82%
Pb 220.353†	14.4	0.2651 mg/L	0.03684	48.85 mg/kg	6.789	13.90%
Sb 206.836†	4.1	0.1599 mg/L	0.08270	29.47 mg/kg	15.242	51.72%
Sb 217.582†	-2.5	-0.08317 mg/L	0.086831	-15.33 mg/kg	16.003	104.41%
Sb 231.146†	-1.8	-0.08628 mg/L	0.067135	-15.90 mg/kg	12.373	77.81%
Se 196.026†	-3.4	-0.4903 mg/L	0.34797	-90.36 mg/kg	64.130	70.97%
Se 203.985†	-0.2	-0.05570 mg/L	0.104819	-10.26 mg/kg	19.318	188.20%
Sn 189.927†	2.0	0.2198 mg/L	0.03753	40.52 mg/kg	6.917	17.07%
Sn 235.485†	459.4	-0.8283 mg/L	0.30266	-152.7 mg/kg	55.78	36.54%
Sn 283.998†	-38.6	-0.05154 mg/L	0.017494	-9.499 mg/kg	3.2240	33.94%
Sr 407.771†	18740.1	0.05587 mg/L	0.000249	10.30 mg/kg	0.046	0.45%
Sr 421.552†	8423.7	0.05601 mg/L	0.000604	10.32 mg/kg	0.111	1.08%
Sr 460.733†	51.3	0.01510 mg/L	0.019190	2.783 mg/kg	3.5366	127.08%
Ti 334.940†	8806.5	0.4487 mg/L	0.00204	82.69 mg/kg	0.376	0.45%
Ti 336.121†	6247.7	0.4461 mg/L	0.00430	82.21 mg/kg	0.792	0.96%
Ti 337.279†	3196.3	0.4382 mg/L	0.00934	80.76 mg/kg	1.722	2.13%
Tl 190.801†	0.4	0.1321 mg/L	0.34262	24.35 mg/kg	63.144	259.32%
Tl 276.787†	340.7	1.679 mg/L	0.0481	309.5 mg/kg	8.87	2.87%
Tl 351.924†	-0.0	-0.00500 mg/L	0.084692	-0.9209 mg/kg	15.60860	>999.9%
V 290.880†	-7.6	0.01705 mg/L	0.001537	3.142 mg/kg	0.2832	9.01%
V 309.310†	2170.1	0.04933 mg/L	0.003943	9.091 mg/kg	0.7268	7.99%
V 310.230†	200.5	0.02612 mg/L	0.002947	4.813 mg/kg	0.5432	11.28%
Zn 202.548†	163.4	0.6012 mg/L	0.00462	110.8 mg/kg	0.85	0.77%
Zn 206.200†	187.5	0.6171 mg/L	0.00700	113.7 mg/kg	1.29	1.13%
Zn 213.857†	308.8	0.6422 mg/L	0.01024	118.4 mg/kg	1.89	1.59%

Sequence No.: 48 **Autosampler Location: 23**
Sample ID: b307012-ms4 **Date Collected: 8/19/03 2:14:59 PM**
Analyst:

Sample Wt: 0.5367 g
Dilution: 1X

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:06:56 AM,

Mean Data: b307012-ms4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	168942.5						2546.71	1.51%
Ag 328.068†	395.0	0.08328	mg/L	0.000401	15.52	mg/kg	0.075	0.48%
Ag 338.289†	218.1	0.08077	mg/L	0.003924	15.05	mg/kg	0.731	4.86%
Al 308.215†	4009.8	6.406	mg/L	0.0855	1194	mg/kg	15.9	1.34%
Al 394.401†	5556.1	6.670	mg/L	0.0353	1243	mg/kg	6.6	0.53%
Al 396.153†	12647.5	6.838	mg/L	0.0085	1274	mg/kg	1.6	0.12%
As 188.979†	3.9	0.4518	mg/L	0.25430	84.17	mg/kg	47.382	56.29%
As 193.696†	0.1	0.06761	mg/L	0.162865	12.60	mg/kg	30.346	240.88%
As 197.197†	-5.2	-0.5461	mg/L	0.12320	-101.7	mg/kg	22.95	22.56%
B 208.889†	53.1	0.8925	mg/L	0.02794	166.3	mg/kg	5.21	3.13%
B 249.677†	389.7	0.9040	mg/L	0.00883	168.4	mg/kg	1.64	0.98%
B 249.772†	899.9	0.9038	mg/L	0.01059	168.4	mg/kg	1.97	1.17%
Ba 233.527†	857.9	0.4569	mg/L	0.01029	85.13	mg/kg	1.917	2.25%
Ba 455.403†	58940.2	0.5102	mg/L	0.00228	95.06	mg/kg	0.425	0.45%
Ba 493.408†	56425.7	0.5017	mg/L	0.00224	93.49	mg/kg	0.418	0.45%
Be 234.861†	598.0	0.04589	mg/L	0.000785	8.550	mg/kg	0.1463	1.71%
Be 313.042†	2900.4	0.04343	mg/L	0.000580	8.092	mg/kg	0.1081	1.34%
Be 313.107†	1527.9	0.04350	mg/L	0.000589	8.104	mg/kg	0.1097	1.35%
Ca 315.887†	288759.1	157.1	mg/L	3.29	29280	mg/kg	612.1	2.09%
Ca 317.933†	277550.7	147.7	mg/L	2.98	27510	mg/kg	554.7	2.02%
Cd 214.440†	73.3	0.08704	mg/L	0.001262	16.22	mg/kg	0.235	1.45%
Cd 226.502†	43.3	0.08499	mg/L	0.004108	15.84	mg/kg	0.765	4.83%
Cd 228.802†	67.7	0.08924	mg/L	0.003198	16.63	mg/kg	0.596	3.58%
Ce 413.380†	54.4	0.04390	mg/L	0.012890	8.179	mg/kg	2.4018	29.36%
Ce 413.764†	55.1	0.04093	mg/L	0.007582	7.626	mg/kg	1.4126	18.52%
Ce 418.660†	82.8	0.05449	mg/L	0.011726	10.15	mg/kg	2.185	21.52%
Co 228.616†	239.5	0.4358	mg/L	0.01273	81.20	mg/kg	2.372	2.92%
Co 230.786†	254.7	0.4263	mg/L	0.00658	79.42	mg/kg	1.227	1.54%
Co 238.892†	236.1	0.4148	mg/L	0.01078	77.28	mg/kg	2.008	2.60%
Cr 205.560†	59.7	0.4710	mg/L	0.01972	87.76	mg/kg	3.674	4.19%
Cr 267.716†	391.1	0.4754	mg/L	0.00839	88.58	mg/kg	1.563	1.76%
Cr 283.563†	2133.7	0.4796	mg/L	0.00648	89.37	mg/kg	1.208	1.35%
Cu 224.700†	118.9	0.4547	mg/L	0.00477	84.72	mg/kg	0.888	1.05%
Cu 324.752†	2743.1	0.4588	mg/L	0.00707	85.48	mg/kg	1.318	1.54%
Cu 327.393†	1225.5	0.4600	mg/L	0.00713	85.70	mg/kg	1.329	1.55%
Fe 238.204†	48438.0	31.87	mg/L	0.149	5938	mg/kg	27.7	0.47%
Fe 239.562†	27664.3	31.59	mg/L	0.233	5885	mg/kg	43.3	0.74%
Fe 259.939†	92401.1	31.85	mg/L	0.142	5935	mg/kg	26.5	0.45%
Fe 273.955†	14884.3	34.81	mg/L	0.197	6486	mg/kg	36.6	0.56%
K 766.490†	1455.4	1.088	mg/L	0.0505	202.7	mg/kg	9.41	4.64%
Li 610.362†	2576.4	0.4261	mg/L	0.09022	79.39	mg/kg	16.810	21.17%
Li 670.784†	17585.2	0.4833	mg/L	0.00622	90.05	mg/kg	1.160	1.29%
Mg 279.077†	25103.7	80.19	mg/L	0.460	14940	mg/kg	85.6	0.57%
Mg 280.271†	3444957.7	72.72	mg/L	1.429	13550	mg/kg	266.3	1.97%
Mg 285.213†	301777.4	75.39	mg/L	1.511	14050	mg/kg	281.6	2.00%
Mn 257.610†	28996.6	2.471	mg/L	0.0141	460.4	mg/kg	2.64	0.57%
Mn 259.372†	27298.3	2.472	mg/L	0.0239	460.6	mg/kg	4.45	0.97%
Mn 260.568†	18165.3	2.484	mg/L	0.0202	462.9	mg/kg	3.77	0.81%
Mo 202.031†	17.2	1.793	mg/L	0.1119	334.0	mg/kg	20.85	6.24%
Mo 203.845†	28.1	0.9517	mg/L	0.10027	177.3	mg/kg	18.68	10.54%
Mo 204.597†	51.9	0.9019	mg/L	0.05075	168.0	mg/kg	9.46	5.63%
Na 588.995†	3828.2	0.6573	mg/L	0.04667	122.5	mg/kg	8.70	7.10%
Na 589.592†	2469.5	0.6328	mg/L	0.00994	117.9	mg/kg	1.85	1.57%
Ni 221.648†	35.8	0.4633	mg/L	0.04726	86.32	mg/kg	8.805	10.20%
Ni 231.604†	131.2	0.4541	mg/L	0.01289	84.60	mg/kg	2.401	2.84%
Ni 232.003†	78.6	0.4358	mg/L	0.00728	81.21	mg/kg	1.356	1.67%
Pb 217.000†	24.7	1.079	mg/L	0.0533	201.0	mg/kg	9.93	4.94%
Pb 220.353†	50.1	1.097	mg/L	0.0213	204.3	mg/kg	3.97	1.94%
Sb 206.836†	3.4	0.1216	mg/L	0.07961	22.65	mg/kg	14.832	65.47%
Sb 217.582†	-2.4	-0.08042	mg/L	0.111802	-14.98	mg/kg	20.831	139.03%
Sb 231.146†	3.5	0.1219	mg/L	0.16063	22.71	mg/kg	29.928	131.81%
Se 196.026†	-1.5	-0.2280	mg/L	0.28402	-42.48	mg/kg	52.920	124.57%
Se 203.985†	1.5	0.1124	mg/L	0.14040	20.95	mg/kg	26.160	124.86%
Sn 189.927†	6.6	0.7722	mg/L	0.30903	143.9	mg/kg	57.58	40.02%

Sn 235.485†	464.8	0.07737	mg/L	0.122818	14.42	mg/kg	22.884	158.73%
Sn 283.998†	169.5	0.3628	mg/L	0.01868	67.59	mg/kg	3.481	5.15%
Sr 407.771†	316542.6	1.004	mg/L	0.0229	187.1	mg/kg	4.26	2.28%
Sr 421.552†	141526.2	1.003	mg/L	0.0040	186.9	mg/kg	0.74	0.39%
Sr 460.733†	2070.3	1.010	mg/L	0.0575	188.1	mg/kg	10.72	5.70%
Ti 334.940†	11012.2	0.5595	mg/L	0.00375	104.2	mg/kg	0.70	0.67%
Ti 336.121†	7773.9	0.5561	mg/L	0.00301	103.6	mg/kg	0.56	0.54%
Ti 337.279†	4072.9	0.5587	mg/L	0.00069	104.1	mg/kg	0.13	0.12%
Tl 190.801†	0.0	0.05266	mg/L	0.270769	9.812	mg/kg	50.4506	514.15%
Tl 276.787†	309.4	1.460	mg/L	0.1372	272.1	mg/kg	25.57	9.40%
Tl 351.924†	-7.8	-0.05540	mg/L	0.041703	-10.32	mg/kg	7.770	75.28%
V 290.880†	1218.5	0.4480	mg/L	0.00924	83.47	mg/kg	1.722	2.06%
V 309.310†	4764.5	0.4824	mg/L	0.00335	89.88	mg/kg	0.624	0.69%
V 310.230†	3418.0	0.4664	mg/L	0.01511	86.90	mg/kg	2.816	3.24%
Zn 202.548†	352.8	1.303	mg/L	0.0119	242.7	mg/kg	2.21	0.91%
Zn 206.200†	405.2	1.333	mg/L	0.0152	248.3	mg/kg	2.83	1.14%
Zn 213.857†	653.6	1.372	mg/L	0.0162	255.6	mg/kg	3.01	1.18%

Sequence No.: 49 **Autosampler Location: 25**
Sample ID: b307012-ms8 **Date Collected: 8/19/03 2:18:51 PM**
Analyst:
Sample Wt: 0.5574 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:02 AM,**

Mean Data: b307012-ms8

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156709.5						1412.73	0.90%
Ag 328.068†	-16.3	-0.00059	mg/L	0.000968	-0.1055	mg/kg	0.17369	164.59%
Ag 338.289†	-2.5	0.00054	mg/L	0.001569	0.09666	mg/kg	0.281541	291.28%
Al 308.215†	4490.0	7.173	mg/L	0.0580	1287	mg/kg	10.4	0.81%
Al 394.401†	6143.5	7.382	mg/L	0.0154	1324	mg/kg	2.8	0.21%
Al 396.153†	13937.4	7.564	mg/L	0.0087	1357	mg/kg	1.6	0.12%
As 188.979†	3.9	0.3967	mg/L	0.24445	71.17	mg/kg	43.855	61.62%
As 193.696†	0.3	0.1281	mg/L	0.22090	22.98	mg/kg	39.630	172.47%
As 197.197†	-6.9	-0.7498	mg/L	0.48058	-134.5	mg/kg	86.22	64.10%
B 208.889†	59.7	0.9934	mg/L	0.01900	178.2	mg/kg	3.41	1.91%
B 249.677†	416.1	0.9655	mg/L	0.01269	173.2	mg/kg	2.28	1.31%
B 249.772†	960.2	0.9616	mg/L	0.01273	172.5	mg/kg	2.28	1.32%
Ba 233.527†	8657.9	4.632	mg/L	0.0133	831.0	mg/kg	2.39	0.29%
Ba 455.403†	586912.1	5.084	mg/L	0.0733	912.2	mg/kg	13.16	1.44%
Ba 493.408†	562799.1	5.011	mg/L	0.0732	898.9	mg/kg	13.14	1.46%
Be 234.861†	693.9	0.05279	mg/L	0.001668	9.470	mg/kg	0.2993	3.16%
Be 313.042†	3368.9	0.05041	mg/L	0.000522	9.044	mg/kg	0.0936	1.03%
Be 313.107†	1764.5	0.05027	mg/L	0.000632	9.019	mg/kg	0.1135	1.26%
Ca 315.887†	365456.7	198.9	mg/L	2.56	35680	mg/kg	459.9	1.29%
Ca 317.933†	350909.6	186.7	mg/L	2.43	33490	mg/kg	436.6	1.30%
Cd 214.440†	765.4	0.9184	mg/L	0.01803	164.8	mg/kg	3.23	1.96%
Cd 226.502†	473.3	0.9076	mg/L	0.01115	162.8	mg/kg	2.00	1.23%
Cd 228.802†	686.7	0.9051	mg/L	0.01926	162.4	mg/kg	3.46	2.13%
Ce 413.380†	46.7	0.03353	mg/L	0.036862	6.015	mg/kg	6.6133	109.94%
Ce 413.764†	104.0	0.07924	mg/L	0.004717	14.22	mg/kg	0.846	5.95%
Ce 418.660†	113.8	0.07249	mg/L	0.008580	13.00	mg/kg	1.539	11.84%
Co 228.616†	251.9	0.4560	mg/L	0.00728	81.80	mg/kg	1.307	1.60%
Co 230.786†	282.2	0.4689	mg/L	0.00320	84.12	mg/kg	0.574	0.68%
Co 238.892†	270.0	0.4625	mg/L	0.01046	82.98	mg/kg	1.876	2.26%
Cr 205.560†	596.4	4.726	mg/L	0.0453	847.9	mg/kg	8.13	0.96%
Cr 267.716†	3897.4	4.744	mg/L	0.0719	851.2	mg/kg	12.89	1.51%
Cr 283.563†	20746.7	4.787	mg/L	0.0367	858.9	mg/kg	6.58	0.77%
Cu 224.700†	1147.5	4.497	mg/L	0.0349	806.8	mg/kg	6.25	0.78%
Cu 324.752†	27112.7	4.567	mg/L	0.0473	819.4	mg/kg	8.49	1.04%
Cu 327.393†	11930.2	4.529	mg/L	0.0492	812.6	mg/kg	8.83	1.09%
Fe 238.204†	62890.4	41.39	mg/L	0.267	7426	mg/kg	47.8	0.64%
Fe 239.562†	35967.3	41.08	mg/L	0.343	7370	mg/kg	61.5	0.83%
Fe 259.939†	119883.9	41.34	mg/L	0.257	7416	mg/kg	46.2	0.62%
Fe 273.955†	19314.5	45.18	mg/L	0.161	8106	mg/kg	28.8	0.36%
K 766.490†	1557.6	1.165	mg/L	0.0582	208.9	mg/kg	10.45	5.00%
Li 610.362†	4992.4	0.8285	mg/L	0.07529	148.6	mg/kg	13.51	9.09%
Li 670.784†	19114.8	0.5265	mg/L	0.00316	94.46	mg/kg	0.567	0.60%

Mg 279.077†	31601.3	100.9	mg/L	0.78	18110	mg/kg	140.7	0.78%
Mg 280.271†	4301785.9	90.81	mg/L	1.125	16290	mg/kg	201.8	1.24%
Mg 285.213†	380000.7	94.94	mg/L	1.245	17030	mg/kg	223.3	1.31%
Mn 257.610†	122738.3	10.47	mg/L	0.055	1878	mg/kg	9.8	0.52%
Mn 259.372†	113629.8	10.43	mg/L	0.073	1871	mg/kg	13.1	0.70%
Mn 260.568†	76922.7	10.53	mg/L	0.093	1889	mg/kg	16.7	0.89%
Mo 202.031†	12.0	1.129	mg/L	0.4168	202.5	mg/kg	74.77	36.92%
Mo 203.845†	5.9	0.2141	mg/L	0.07484	38.41	mg/kg	13.426	34.96%
Mo 204.597†	2.0	0.03253	mg/L	0.023274	5.836	mg/kg	4.1755	71.55%
Na 588.995†	2907.5	0.4992	mg/L	0.05128	89.57	mg/kg	9.200	10.27%
Na 589.592†	2489.9	0.6381	mg/L	0.02662	114.5	mg/kg	4.78	4.17%
Ni 221.648†	145.8	1.860	mg/L	0.0382	333.6	mg/kg	6.85	2.05%
Ni 231.604†	542.8	1.879	mg/L	0.0119	337.1	mg/kg	2.14	0.63%
Ni 232.003†	370.0	1.926	mg/L	0.0341	345.5	mg/kg	6.12	1.77%
Pb 217.000†	111.2	5.162	mg/L	0.2210	926.1	mg/kg	39.64	4.28%
Pb 220.353†	217.6	4.961	mg/L	0.0588	890.0	mg/kg	10.55	1.18%
Sb 206.836†	5.3	0.1268	mg/L	0.13613	22.74	mg/kg	24.422	107.39%
Sb 217.582†	-4.3	-0.1754	mg/L	0.14595	-31.47	mg/kg	26.185	83.20%
Sb 231.146†	-0.3	-0.08648	mg/L	0.029026	-15.51	mg/kg	5.207	33.57%
Se 196.026†	-2.7	-0.4340	mg/L	0.24109	-77.86	mg/kg	43.253	55.55%
Se 203.985†	4.1	-0.1225	mg/L	0.38140	-21.98	mg/kg	68.425	311.28%
Sn 189.927†	1.0	0.08774	mg/L	0.158934	15.74	mg/kg	28.514	181.14%
Sn 235.485†	567.4	-0.8581	mg/L	0.28080	-154.0	mg/kg	50.38	32.72%
Sn 283.998†	656.6	-0.05917	mg/L	0.030518	-10.62	mg/kg	5.475	51.58%
Sr 407.771†	345147.5	1.094	mg/L	0.0159	196.4	mg/kg	2.85	1.45%
Sr 421.552†	152731.5	1.082	mg/L	0.0093	194.0	mg/kg	1.66	0.86%
Sr 460.733†	2267.8	1.108	mg/L	0.0418	198.7	mg/kg	7.49	3.77%
Ti 334.940†	14501.9	0.7353	mg/L	0.00635	131.9	mg/kg	1.14	0.86%
Ti 336.121†	10201.8	0.7299	mg/L	0.00287	130.9	mg/kg	0.51	0.39%
Ti 337.279†	5283.7	0.7247	mg/L	0.00438	130.0	mg/kg	0.79	0.60%
Tl 190.801†	-0.9	-0.1324	mg/L	0.45182	-23.76	mg/kg	81.059	341.22%
Tl 276.787†	417.1	1.979	mg/L	0.1107	355.0	mg/kg	19.87	5.60%
Tl 351.924†	-6.4	-0.04895	mg/L	0.048328	-8.783	mg/kg	8.6703	98.72%
V 290.880†	1343.6	0.4977	mg/L	0.00624	89.30	mg/kg	1.120	1.25%
V 309.310†	5504.6	0.5298	mg/L	0.00504	95.04	mg/kg	0.904	0.95%
V 310.230†	3795.5	0.5171	mg/L	0.00188	92.77	mg/kg	0.337	0.36%
Zn 202.548†	2500.7	9.249	mg/L	0.1555	1659	mg/kg	27.9	1.68%
Zn 206.200†	2875.7	9.443	mg/L	0.1172	1694	mg/kg	21.0	1.24%
Zn 213.857†	4552.8	9.616	mg/L	0.1115	1725	mg/kg	20.0	1.16%

Sequence No.: 50
Sample ID: 0305007-26
Analyst:
Sample Wt: 0.6134 g
Dilution: 1X

Autosampler Location: 27
Date Collected: 8/19/03 2:22:47 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:07:08 AM,

Mean Data: 0305007-26

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163219.5						3637.05	2.23%
Ag 328.068†	-1.1	0.00388	mg/L	0.000401	0.6330	mg/kg	0.06532	10.32%
Ag 338.289†	-53.5	0.00397	mg/L	0.002684	0.6469	mg/kg	0.43763	67.65%
Al 308.215†	9982.0	16.03	mg/L	0.216	2614	mg/kg	35.3	1.35%
Al 394.401†	13869.5	16.62	mg/L	0.137	2709	mg/kg	22.4	0.83%
Al 396.153†	30973.5	16.86	mg/L	0.165	2748	mg/kg	26.9	0.98%
As 188.979†	4.1	0.4881	mg/L	0.12902	79.58	mg/kg	21.033	26.43%
As 193.696†	1.3	0.3206	mg/L	0.39058	52.26	mg/kg	63.675	121.84%
As 197.197†	-5.3	-0.5262	mg/L	0.32405	-85.79	mg/kg	52.829	61.58%
B 208.889†	5.7	0.06080	mg/L	0.035901	9.912	mg/kg	5.8528	59.05%
B 249.677†	13.8	0.04194	mg/L	0.002734	6.838	mg/kg	0.4457	6.52%
B 249.772†	213.0	0.02147	mg/L	0.001987	3.501	mg/kg	0.3239	9.25%
Ba 233.527†	408.5	0.1869	mg/L	0.00546	30.47	mg/kg	0.890	2.92%
Ba 455.403†	25919.1	0.2240	mg/L	0.00161	36.52	mg/kg	0.263	0.72%
Ba 493.408†	25231.6	0.2214	mg/L	0.00125	36.10	mg/kg	0.203	0.56%
Be 234.861†	368.2	0.00179	mg/L	0.001243	0.2915	mg/kg	0.20272	69.53%
Be 313.042†	150.3	0.00197	mg/L	0.000066	0.3206	mg/kg	0.01077	3.36%
Be 313.107†	75.0	0.00211	mg/L	0.000040	0.3446	mg/kg	0.00657	1.91%
Ca 315.887†	296143.7	161.2	mg/L	2.95	26270	mg/kg	481.4	1.83%
Ca 317.933†	284377.5	151.3	mg/L	2.83	24670	mg/kg	461.5	1.87%

Cd 214.440†	38.5	0.04193 mg/L	0.002314	6.836 mg/kg	0.3772	5.52%
Cd 226.502†	30.3	0.03617 mg/L	0.006333	5.897 mg/kg	1.0325	17.51%
Cd 228.802†	27.9	0.03901 mg/L	0.002100	6.360 mg/kg	0.3424	5.38%
Ce 413.380†	138.0	0.05520 mg/L	0.009885	9.000 mg/kg	1.6115	17.91%
Ce 413.764†	116.7	0.07837 mg/L	0.011542	12.78 mg/kg	1.882	14.73%
Ce 418.660†	202.7	0.1180 mg/L	0.03898	19.24 mg/kg	6.355	33.03%
Co 228.616†	17.5	0.02667 mg/L	0.002664	4.348 mg/kg	0.4344	9.99%
Co 230.786†	18.4	0.01864 mg/L	0.000945	3.039 mg/kg	0.1541	5.07%
Co 238.892†	342.9	0.08255 mg/L	0.018292	13.46 mg/kg	2.982	22.16%
Cr 205.560†	80.6	0.6416 mg/L	0.01942	104.6 mg/kg	3.17	3.03%
Cr 267.716†	516.3	0.6373 mg/L	0.00710	103.9 mg/kg	1.16	1.11%
Cr 283.563†	3410.0	0.6164 mg/L	0.00923	100.5 mg/kg	1.50	1.50%
Cu 224.700†	151.2	0.5412 mg/L	0.00792	88.24 mg/kg	1.291	1.46%
Cu 324.752†	3305.0	0.5487 mg/L	0.00406	89.46 mg/kg	0.662	0.74%
Cu 327.393†	1469.8	0.5507 mg/L	0.00227	89.78 mg/kg	0.369	0.41%
Fe 238.204†	503113.6	330.9 mg/L	6.27	53940 mg/kg	1021.5	1.89%
Fe 239.562†	290996.8	332.1 mg/L	6.16	54150 mg/kg	1004.6	1.86%
Fe 259.939†	966940.8	333.2 mg/L	6.25	54320 mg/kg	1018.7	1.88%
Fe 273.955†	161117.2	376.7 mg/L	4.23	61410 mg/kg	689.3	1.12%
K 766.490†	1653.7	1.236 mg/L	0.0592	201.6 mg/kg	9.66	4.79%
Li 610.362†	-131.9	-0.09964 mg/L	0.150541	-16.24 mg/kg	24.542	151.08%
Li 670.784†	370.3	0.01228 mg/L	0.000527	2.002 mg/kg	0.0860	4.30%
Mg 279.077†	23772.5	75.83 mg/L	1.089	12360 mg/kg	177.6	1.44%
Mg 280.271†	3256586.8	68.72 mg/L	1.301	11200 mg/kg	212.2	1.89%
Mg 285.213†	285499.3	71.30 mg/L	1.283	11620 mg/kg	209.1	1.80%
Mn 257.610†	34372.9	2.925 mg/L	0.0281	476.8 mg/kg	4.59	0.96%
Mn 259.372†	36225.5	2.914 mg/L	0.0259	475.1 mg/kg	4.22	0.89%
Mn 260.568†	21674.8	2.949 mg/L	0.0214	480.8 mg/kg	3.50	0.73%
Mo 202.031†	10.6	0.9871 mg/L	0.18995	160.9 mg/kg	30.97	19.24%
Mo 203.845†	7.1	0.1924 mg/L	0.05891	31.36 mg/kg	9.604	30.62%
Mo 204.597†	3.2	0.04818 mg/L	0.025274	7.855 mg/kg	4.1203	52.46%
Na 588.995†	4041.2	0.6939 mg/L	0.02867	113.1 mg/kg	4.67	4.13%
Na 589.592†	2327.1	0.5963 mg/L	0.01187	97.22 mg/kg	1.935	1.99%
Ni 221.648†	17.8	0.2315 mg/L	0.01495	37.74 mg/kg	2.437	6.46%
Ni 231.604†	77.7	0.2647 mg/L	0.00587	43.15 mg/kg	0.958	2.22%
Ni 232.003†	53.2	0.2755 mg/L	0.01570	44.91 mg/kg	2.559	5.70%
Pb 217.000†	84.3	3.538 mg/L	0.0338	576.8 mg/kg	5.51	0.96%
Pb 220.353†	142.7	3.299 mg/L	0.0494	537.7 mg/kg	8.06	1.50%
Sb 206.836†	2.8	0.1074 mg/L	0.01280	17.51 mg/kg	2.087	11.92%
Sb 217.582†	-1.0	-0.1379 mg/L	0.15004	-22.48 mg/kg	24.460	108.82%
Sb 231.146†	0.5	-0.00906 mg/L	0.051628	-1.476 mg/kg	8.4167	570.11%
Se 196.026†	-2.5	-0.3995 mg/L	0.16998	-65.12 mg/kg	27.711	42.55%
Se 203.985†	2.4	0.08375 mg/L	0.417147	13.65 mg/kg	68.006	498.10%
Sn 189.927†	5.2	0.6057 mg/L	0.10520	98.74 mg/kg	17.151	17.37%
Sn 235.485†	4700.9	-8.159 mg/L	0.1836	-1330 mg/kg	29.9	2.25%
Sn 283.998†	91.0	0.3211 mg/L	0.00606	52.35 mg/kg	0.988	1.89%
Sr 407.771†	29036.4	0.08903 mg/L	0.000521	14.51 mg/kg	0.085	0.59%
Sr 421.552†	13196.7	0.08964 mg/L	0.000682	14.61 mg/kg	0.111	0.76%
Sr 460.733†	167.5	0.07013 mg/L	0.020924	11.43 mg/kg	3.411	29.84%
Ti 334.940†	17738.5	0.8989 mg/L	0.00749	146.6 mg/kg	1.22	0.83%
Ti 336.121†	12503.4	0.8967 mg/L	0.00548	146.2 mg/kg	0.89	0.61%
Ti 337.279†	6510.1	0.8926 mg/L	0.00918	145.5 mg/kg	1.50	1.03%
Tl 190.801†	-3.5	-0.7433 mg/L	0.69138	-121.2 mg/kg	112.71	93.01%
Tl 276.787†	332.5	1.643 mg/L	0.4162	267.8 mg/kg	67.84	25.33%
Tl 351.924†	-1.1	-0.02560 mg/L	0.068323	-4.173 mg/kg	11.1385	266.91%
V 290.880†	212.7	0.07283 mg/L	0.002868	11.87 mg/kg	0.467	3.94%
V 309.310†	2214.7	0.1024 mg/L	0.00394	16.70 mg/kg	0.643	3.85%
V 310.230†	632.2	0.08564 mg/L	0.005475	13.96 mg/kg	0.893	6.39%
Zn 202.548†	1444.0	5.349 mg/L	0.0826	872.0 mg/kg	13.46	1.54%
Zn 206.200†	1656.0	5.445 mg/L	0.0633	887.6 mg/kg	10.32	1.16%
Zn 213.857†	2659.8	5.601 mg/L	0.0862	913.1 mg/kg	14.06	1.54%

Sequence No.: 51 **Autosampler Location: 29**
Sample ID: 0305007-27 **Date Collected: 8/19/03 2:26:45 PM**
Analyst:
Sample Wt: 0.6649 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:14 AM,**

Mean Data: 0305007-27

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163765.8						626.09	0.38%
Ag 328.068†	1.7	0.00451	mg/L	0.001859	0.6789	mg/kg	0.27962	41.19%
Ag 338.289†	-62.9	-0.00077	mg/L	0.001995	-0.1162	mg/kg	0.30000	258.20%
Al 308.215†	10900.3	17.51	mg/L	0.164	2634	mg/kg	24.7	0.94%
Al 394.401†	15197.4	18.18	mg/L	0.125	2735	mg/kg	18.8	0.69%
Al 396.153†	33797.8	18.40	mg/L	0.095	2768	mg/kg	14.3	0.52%
As 188.979†	3.5	0.4273	mg/L	0.06151	64.26	mg/kg	9.251	14.40%
As 193.696†	1.6	0.3579	mg/L	0.19533	53.83	mg/kg	29.377	54.57%
As 197.197†	-1.0	0.1488	mg/L	0.39785	22.37	mg/kg	59.836	267.45%
B 208.889†	4.0	0.03685	mg/L	0.033813	5.542	mg/kg	5.0854	91.76%
B 249.677†	11.6	0.03598	mg/L	0.005074	5.412	mg/kg	0.7631	14.10%
B 249.772†	198.1	0.01899	mg/L	0.003037	2.856	mg/kg	0.4567	15.99%
Ba 233.527†	594.2	0.2884	mg/L	0.00162	43.37	mg/kg	0.243	0.56%
Ba 455.403†	38759.3	0.3353	mg/L	0.00342	50.43	mg/kg	0.514	1.02%
Ba 493.408†	37421.6	0.3302	mg/L	0.00241	49.66	mg/kg	0.363	0.73%
Be 234.861†	359.5	0.00296	mg/L	0.001205	0.4446	mg/kg	0.18124	40.76%
Be 313.042†	159.5	0.00213	mg/L	0.000105	0.3208	mg/kg	0.01582	4.93%
Be 313.107†	78.3	0.00221	mg/L	0.000135	0.3323	mg/kg	0.02038	6.13%
Ca 315.887†	230530.6	125.5	mg/L	0.83	18870	mg/kg	125.5	0.67%
Ca 317.933†	220289.6	117.2	mg/L	0.79	17630	mg/kg	118.2	0.67%
Cd 214.440†	63.2	0.07220	mg/L	0.001217	10.86	mg/kg	0.183	1.69%
Cd 226.502†	47.2	0.06915	mg/L	0.009157	10.40	mg/kg	1.377	13.24%
Cd 228.802†	49.5	0.06657	mg/L	0.003195	10.01	mg/kg	0.481	4.80%
Ce 413.380†	177.0	0.09512	mg/L	0.035484	14.31	mg/kg	5.337	37.30%
Ce 413.764†	106.8	0.07175	mg/L	0.009467	10.79	mg/kg	1.424	13.19%
Ce 418.660†	190.0	0.1100	mg/L	0.01709	16.54	mg/kg	2.570	15.54%
Co 228.616†	16.1	0.02383	mg/L	0.002534	3.584	mg/kg	0.3811	10.63%
Co 230.786†	19.0	0.02037	mg/L	0.004837	3.063	mg/kg	0.7275	23.75%
Co 238.892†	311.0	0.05865	mg/L	0.035107	8.820	mg/kg	5.2801	59.86%
Cr 205.560†	122.4	0.9730	mg/L	0.00765	146.3	mg/kg	1.15	0.79%
Cr 267.716†	799.2	0.9830	mg/L	0.00332	147.8	mg/kg	0.50	0.34%
Cr 283.563†	5004.9	0.9973	mg/L	0.01032	150.0	mg/kg	1.55	1.03%
Cu 224.700†	219.8	0.8156	mg/L	0.01251	122.7	mg/kg	1.88	1.53%
Cu 324.752†	5041.3	0.8433	mg/L	0.01014	126.8	mg/kg	1.53	1.20%
Cu 327.393†	2207.6	0.8334	mg/L	0.00753	125.3	mg/kg	1.13	0.90%
Fe 238.204†	475200.4	312.5	mg/L	1.79	47000	mg/kg	268.6	0.57%
Fe 239.562†	274423.0	313.2	mg/L	2.31	47110	mg/kg	347.9	0.74%
Fe 259.939†	912876.2	314.6	mg/L	2.21	47310	mg/kg	332.8	0.70%
Fe 273.955†	150483.7	351.8	mg/L	2.33	52910	mg/kg	351.1	0.66%
K 766.490†	1992.7	1.490	mg/L	0.0275	224.1	mg/kg	4.13	1.85%
Li 610.362†	-163.7	-0.09608	mg/L	0.056438	-14.45	mg/kg	8.488	58.74%
Li 670.784†	332.8	0.01097	mg/L	0.001159	1.650	mg/kg	0.1744	10.56%
Mg 279.077†	19320.7	61.62	mg/L	0.237	9267	mg/kg	35.7	0.39%
Mg 280.271†	2692225.7	56.80	mg/L	0.391	8543	mg/kg	58.8	0.69%
Mg 285.213†	233296.0	58.26	mg/L	0.371	8762	mg/kg	55.7	0.64%
Mn 257.610†	22640.1	1.925	mg/L	0.0186	289.5	mg/kg	2.80	0.97%
Mn 259.372†	25019.9	1.909	mg/L	0.0089	287.1	mg/kg	1.35	0.47%
Mn 260.568†	14258.6	1.935	mg/L	0.0100	291.0	mg/kg	1.51	0.52%
Mo 202.031†	9.1	0.8640	mg/L	0.22991	129.9	mg/kg	34.58	26.61%
Mo 203.845†	5.6	0.1406	mg/L	0.02873	21.15	mg/kg	4.321	20.43%
Mo 204.597†	5.4	0.08627	mg/L	0.011269	12.97	mg/kg	1.695	13.06%
Na 588.995†	3923.5	0.6737	mg/L	0.04759	101.3	mg/kg	7.16	7.06%
Na 589.592†	2278.8	0.5840	mg/L	0.02021	87.83	mg/kg	3.039	3.46%
Ni 221.648†	26.5	0.3396	mg/L	0.03498	51.08	mg/kg	5.260	10.30%
Ni 231.604†	101.8	0.3483	mg/L	0.00696	52.38	mg/kg	1.047	2.00%
Ni 232.003†	68.7	0.3479	mg/L	0.01853	52.32	mg/kg	2.787	5.33%
Pb 217.000†	85.1	3.612	mg/L	0.1461	543.2	mg/kg	21.97	4.05%
Pb 220.353†	155.3	3.603	mg/L	0.0718	541.8	mg/kg	10.80	1.99%
Sb 206.836†	2.1	0.07351	mg/L	0.067059	11.06	mg/kg	10.086	91.23%
Sb 217.582†	2.1	0.02545	mg/L	0.015139	3.827	mg/kg	2.2769	59.49%
Sb 231.146†	-0.5	-0.05675	mg/L	0.070818	-8.535	mg/kg	10.6509	124.79%
Se 196.026†	-3.6	-0.5548	mg/L	0.22255	-83.45	mg/kg	33.472	40.11%
Se 203.985†	4.0	0.2709	mg/L	0.17461	40.74	mg/kg	26.261	64.46%
Sn 189.927†	7.0	0.8312	mg/L	0.11436	125.0	mg/kg	17.20	13.76%
Sn 235.485†	4451.6	-6.033	mg/L	1.7410	-907.4	mg/kg	261.84	28.86%
Sn 283.998†	174.1	0.3914	mg/L	0.00755	58.87	mg/kg	1.135	1.93%
Sr 407.771†	30516.1	0.09451	mg/L	0.000862	14.21	mg/kg	0.130	0.91%
Sr 421.552†	13844.3	0.09507	mg/L	0.000754	14.30	mg/kg	0.113	0.79%
Sr 460.733†	222.0	0.09907	mg/L	0.034583	14.90	mg/kg	5.201	34.91%

Ti 334.940†	19602.0	0.9918	mg/L	0.00938	149.2	mg/kg	1.41	0.95%
Ti 336.121†	13793.3	0.9905	mg/L	0.00662	149.0	mg/kg	1.00	0.67%
Ti 337.279†	7185.0	0.9855	mg/L	0.01452	148.2	mg/kg	2.18	1.47%
Tl 190.801†	-0.0	-0.04266	mg/L	0.247624	-6.415	mg/kg	37.2423	580.52%
Tl 276.787†	249.7	1.105	mg/L	0.2135	166.2	mg/kg	32.12	19.33%
Tl 351.924†	-5.8	-0.05665	mg/L	0.067379	-8.521	mg/kg	10.1337	118.93%
V 290.880†	259.8	0.08722	mg/L	0.001767	13.12	mg/kg	0.266	2.03%
V 309.310†	2041.3	0.1207	mg/L	0.00426	18.16	mg/kg	0.641	3.53%
V 310.230†	750.0	0.1019	mg/L	0.00125	15.33	mg/kg	0.188	1.23%
Zn 202.548†	1700.9	6.302	mg/L	0.0474	947.8	mg/kg	7.13	0.75%
Zn 206.200†	1952.9	6.418	mg/L	0.0487	965.3	mg/kg	7.32	0.76%
Zn 213.857†	3116.7	6.571	mg/L	0.0470	988.2	mg/kg	7.07	0.72%

Sequence No.: 52
Sample ID: 0305007-28
Analyst:
Sample Wt: 0.5719 g
Dilution: 1X

Autosampler Location: 31
Date Collected: 8/19/03 2:30:35 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 9:07:20 AM,

Mean Data: 0305007-28

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160524.2						2799.39	1.74%
Ag 328.068†	3.1	0.00391	mg/L	0.001592	0.6833	mg/kg	0.27842	40.75%
Ag 338.289†	-53.4	-0.00197	mg/L	0.002534	-0.3444	mg/kg	0.44312	128.68%
Al 308.215†	7834.4	12.59	mg/L	0.378	2201	mg/kg	66.2	3.01%
Al 394.401†	10872.9	13.02	mg/L	0.323	2276	mg/kg	56.5	2.48%
Al 396.153†	24215.2	13.18	mg/L	0.271	2305	mg/kg	47.3	2.05%
As 188.979†	4.1	0.5165	mg/L	0.10052	90.31	mg/kg	17.577	19.46%
As 193.696†	1.0	0.2462	mg/L	0.16845	43.04	mg/kg	29.454	68.43%
As 197.197†	-3.0	-0.2328	mg/L	0.24328	-40.71	mg/kg	42.540	104.50%
B 208.889†	5.6	0.06906	mg/L	0.012309	12.08	mg/kg	2.152	17.82%
B 249.677†	10.8	0.03230	mg/L	0.005735	5.648	mg/kg	1.0028	17.76%
B 249.772†	163.7	0.02170	mg/L	0.003388	3.795	mg/kg	0.5924	15.61%
Ba 233.527†	351.1	0.1643	mg/L	0.00245	28.74	mg/kg	0.428	1.49%
Ba 455.403†	22123.7	0.1913	mg/L	0.00462	33.44	mg/kg	0.807	2.41%
Ba 493.408†	21438.3	0.1885	mg/L	0.00421	32.95	mg/kg	0.736	2.23%
Be 234.861†	286.4	0.00240	mg/L	0.001972	0.4202	mg/kg	0.34482	82.05%
Be 313.042†	109.3	0.00143	mg/L	0.000062	0.2496	mg/kg	0.01084	4.34%
Be 313.107†	49.6	0.00140	mg/L	0.000059	0.2441	mg/kg	0.01032	4.23%
Ca 315.887†	210086.6	114.3	mg/L	1.07	19990	mg/kg	186.4	0.93%
Ca 317.933†	201706.1	107.3	mg/L	0.87	18770	mg/kg	151.9	0.81%
Cd 214.440†	48.9	0.05560	mg/L	0.001977	9.723	mg/kg	0.3457	3.56%
Cd 226.502†	38.8	0.05790	mg/L	0.006987	10.12	mg/kg	1.222	12.07%
Cd 228.802†	42.6	0.05772	mg/L	0.003306	10.09	mg/kg	0.578	5.73%
Ce 413.380†	146.4	0.08103	mg/L	0.029482	14.17	mg/kg	5.155	36.38%
Ce 413.764†	91.2	0.06219	mg/L	0.012484	10.87	mg/kg	2.183	20.07%
Ce 418.660†	118.5	0.06684	mg/L	0.030505	11.69	mg/kg	5.334	45.64%
Co 228.616†	16.3	0.02556	mg/L	0.001255	4.470	mg/kg	0.2195	4.91%
Co 230.786†	21.4	0.02673	mg/L	0.002791	4.675	mg/kg	0.4881	10.44%
Co 238.892†	238.3	0.02912	mg/L	0.018476	5.091	mg/kg	3.2306	63.46%
Cr 205.560†	90.9	0.7223	mg/L	0.02415	126.3	mg/kg	4.22	3.34%
Cr 267.716†	580.6	0.7146	mg/L	0.00434	125.0	mg/kg	0.76	0.61%
Cr 283.563†	3621.3	0.7101	mg/L	0.01094	124.2	mg/kg	1.91	1.54%
Cu 224.700†	168.6	0.6251	mg/L	0.01358	109.3	mg/kg	2.37	2.17%
Cu 324.752†	3747.1	0.6263	mg/L	0.00912	109.5	mg/kg	1.59	1.46%
Cu 327.393†	1655.9	0.6246	mg/L	0.00417	109.2	mg/kg	0.73	0.67%
Fe 238.204†	380516.4	250.3	mg/L	2.38	43760	mg/kg	416.4	0.95%
Fe 239.562†	218922.9	249.9	mg/L	2.35	43690	mg/kg	411.2	0.94%
Fe 259.939†	728902.7	251.2	mg/L	2.40	43920	mg/kg	419.0	0.95%
Fe 273.955†	119517.4	279.4	mg/L	2.77	48860	mg/kg	485.1	0.99%
K 766.490†	1511.7	1.130	mg/L	0.0275	197.6	mg/kg	4.81	2.44%
Li 610.362†	910.8	0.1152	mg/L	0.07517	20.14	mg/kg	13.143	65.25%
Li 670.784†	171.8	0.00625	mg/L	0.002460	1.093	mg/kg	0.4301	39.37%
Mg 279.077†	16046.1	51.18	mg/L	0.859	8949	mg/kg	150.2	1.68%
Mg 280.271†	2273057.6	47.96	mg/L	0.455	8386	mg/kg	79.5	0.95%
Mg 285.213†	196485.8	49.07	mg/L	0.560	8580	mg/kg	97.9	1.14%
Mn 257.610†	17587.9	1.495	mg/L	0.0342	261.4	mg/kg	5.98	2.29%
Mn 259.372†	19458.7	1.478	mg/L	0.0360	258.4	mg/kg	6.30	2.44%

Mn 260.568†	11107.1	1.507	mg/L	0.0341	263.5	mg/kg	5.97	2.26%
Mo 202.031†	7.8	0.7375	mg/L	0.25837	129.0	mg/kg	45.18	35.03%
Mo 203.845†	5.5	0.1484	mg/L	0.06430	25.94	mg/kg	11.243	43.34%
Mo 204.597†	3.1	0.04776	mg/L	0.021118	8.351	mg/kg	3.6926	44.22%
Na 588.995†	2932.7	0.5036	mg/L	0.02330	88.05	mg/kg	4.073	4.63%
Na 589.592†	2027.9	0.5197	mg/L	0.01354	90.87	mg/kg	2.368	2.61%
Ni 221.648†	17.5	0.2260	mg/L	0.01992	39.51	mg/kg	3.484	8.82%
Ni 231.604†	73.8	0.2523	mg/L	0.00213	44.12	mg/kg	0.372	0.84%
Ni 232.003†	46.6	0.2334	mg/L	0.01663	40.82	mg/kg	2.908	7.13%
Pb 217.000†	57.5	2.388	mg/L	0.0440	417.5	mg/kg	7.70	1.84%
Pb 220.353†	101.9	2.362	mg/L	0.0634	412.9	mg/kg	11.08	2.68%
Sb 206.836†	2.4	0.08946	mg/L	0.124032	15.64	mg/kg	21.688	138.65%
Sb 217.582†	1.1	-0.00359	mg/L	0.047019	-0.6269	mg/kg	8.22153	>999.9%
Sb 231.146†	-0.2	-0.03814	mg/L	0.135175	-6.669	mg/kg	23.6361	354.41%
Se 196.026†	-1.9	-0.2993	mg/L	0.31478	-52.33	mg/kg	55.040	105.18%
Se 203.985†	0.8	-0.09932	mg/L	0.148307	-17.37	mg/kg	25.932	149.32%
Sn 189.927†	8.4	1.008	mg/L	0.1458	176.2	mg/kg	25.49	14.46%
Sn 235.485†	3493.5	-5.884	mg/L	1.8664	-1029	mg/kg	326.3	31.72%
Sn 283.998†	162.1	0.4037	mg/L	0.01227	70.59	mg/kg	2.146	3.04%
Sr 407.771†	23153.7	0.07129	mg/L	0.001795	12.47	mg/kg	0.314	2.52%
Sr 421.552†	10475.2	0.07148	mg/L	0.001648	12.50	mg/kg	0.288	2.31%
Sr 460.733†	126.2	0.05311	mg/L	0.017556	9.287	mg/kg	3.0697	33.05%
Ti 334.940†	14718.7	0.7453	mg/L	0.01663	130.3	mg/kg	2.91	2.23%
Ti 336.121†	10339.0	0.7419	mg/L	0.01455	129.7	mg/kg	2.54	1.96%
Ti 337.279†	5383.7	0.7383	mg/L	0.01927	129.1	mg/kg	3.37	2.61%
Tl 190.801†	0.7	0.1215	mg/L	0.40875	21.25	mg/kg	71.473	336.40%
Tl 276.787†	222.9	1.091	mg/L	0.3342	190.7	mg/kg	58.44	30.64%
Tl 351.924†	-4.9	-0.04673	mg/L	0.035976	-8.170	mg/kg	6.2906	76.99%
V 290.880†	180.1	0.06056	mg/L	0.002017	10.59	mg/kg	0.353	3.33%
V 309.310†	1578.2	0.08250	mg/L	0.003881	14.43	mg/kg	0.679	4.70%
V 310.230†	555.2	0.07538	mg/L	0.005715	13.18	mg/kg	0.999	7.58%
Zn 202.548†	1233.7	4.570	mg/L	0.0877	799.1	mg/kg	15.34	1.92%
Zn 206.200†	1421.2	4.671	mg/L	0.0578	816.8	mg/kg	10.10	1.24%
Zn 213.857†	2255.1	4.752	mg/L	0.0489	830.9	mg/kg	8.55	1.03%

Sequence No.: 53 **Autosampler Location: 33**
Sample ID: 0305007-29 **Date Collected: 8/19/03 2:34:25 PM**
Analyst:
Sample Wt: 0.5427 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:27 AM,**

Mean Data: 0305007-29

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161804.7						2348.22	1.45%
Ag 328.068†	-5.8	0.00294	mg/L	0.002626	0.5421	mg/kg	0.48396	89.28%
Ag 338.289†	-19.5	-0.00132	mg/L	0.001760	-0.2439	mg/kg	0.32436	132.98%
Al 308.215†	8732.5	14.01	mg/L	0.107	2582	mg/kg	19.7	0.76%
Al 394.401†	12040.4	14.42	mg/L	0.106	2657	mg/kg	19.5	0.73%
Al 396.153†	27011.0	14.69	mg/L	0.074	2707	mg/kg	13.7	0.50%
As 188.979†	3.9	0.4361	mg/L	0.24490	80.37	mg/kg	45.126	56.15%
As 193.696†	1.7	0.4037	mg/L	0.42594	74.39	mg/kg	78.486	105.50%
As 197.197†	-5.3	-0.4956	mg/L	0.20572	-91.33	mg/kg	37.907	41.51%
B 208.889†	4.2	0.04747	mg/L	0.028313	8.747	mg/kg	5.2171	59.64%
B 249.677†	8.6	0.02240	mg/L	0.004341	4.127	mg/kg	0.7999	19.38%
B 249.772†	75.7	0.02059	mg/L	0.003954	3.794	mg/kg	0.7286	19.20%
Ba 233.527†	257.8	0.1284	mg/L	0.00322	23.66	mg/kg	0.594	2.51%
Ba 455.403†	16778.8	0.1449	mg/L	0.00103	26.69	mg/kg	0.189	0.71%
Ba 493.408†	16199.3	0.1429	mg/L	0.00129	26.34	mg/kg	0.238	0.90%
Be 234.861†	114.3	0.00082	mg/L	0.001051	0.1516	mg/kg	0.19362	127.75%
Be 313.042†	58.2	0.00059	mg/L	0.000093	0.1086	mg/kg	0.01714	15.78%
Be 313.107†	24.3	0.00067	mg/L	0.000052	0.1243	mg/kg	0.00965	7.77%
Ca 315.887†	332651.2	181.0	mg/L	2.47	33360	mg/kg	455.9	1.37%
Ca 317.933†	319110.7	169.8	mg/L	2.33	31280	mg/kg	429.4	1.37%
Cd 214.440†	10.7	0.01106	mg/L	0.003014	2.039	mg/kg	0.5554	27.24%
Cd 226.502†	5.6	0.00814	mg/L	0.005225	1.499	mg/kg	0.9628	64.22%
Cd 228.802†	7.3	0.00696	mg/L	0.006849	1.282	mg/kg	1.2619	98.42%
Ce 413.380†	75.8	0.04908	mg/L	0.004155	9.044	mg/kg	0.7656	8.47%
Ce 413.764†	74.1	0.05378	mg/L	0.003898	9.910	mg/kg	0.7182	7.25%

Ce 418.660†	87.2	0.05468	mg/L	0.008354	10.08	mg/kg	1.539	15.28%
Co 228.616†	15.1	0.02634	mg/L	0.007993	4.853	mg/kg	1.4727	30.35%
Co 230.786†	16.8	0.02381	mg/L	0.000276	4.387	mg/kg	0.0508	1.16%
Co 238.892†	107.3	0.03424	mg/L	0.048552	6.309	mg/kg	8.9464	141.80%
Cr 205.560†	27.2	0.2146	mg/L	0.01565	39.55	mg/kg	2.884	7.29%
Cr 267.716†	178.8	0.2202	mg/L	0.01096	40.57	mg/kg	2.019	4.98%
Cr 283.563†	1163.3	0.2191	mg/L	0.00346	40.37	mg/kg	0.638	1.58%
Cu 224.700†	45.8	0.1606	mg/L	0.01350	29.60	mg/kg	2.487	8.40%
Cu 324.752†	1010.7	0.1671	mg/L	0.00457	30.79	mg/kg	0.842	2.73%
Cu 327.393†	464.3	0.1712	mg/L	0.00215	31.54	mg/kg	0.396	1.26%
Fe 238.204†	155153.0	102.0	mg/L	0.59	18800	mg/kg	108.2	0.58%
Fe 239.562†	88807.8	101.4	mg/L	0.64	18680	mg/kg	118.1	0.63%
Fe 259.939†	293809.1	101.3	mg/L	1.34	18660	mg/kg	246.9	1.32%
Fe 273.955†	47998.2	112.2	mg/L	0.94	20680	mg/kg	173.7	0.84%
K 766.490†	1603.6	1.199	mg/L	0.0374	220.9	mg/kg	6.90	3.12%
Li 610.362†	392.3	0.01360	mg/L	0.106094	2.507	mg/kg	19.5492	779.83%
Li 670.784†	284.2	0.00942	mg/L	0.001476	1.735	mg/kg	0.2720	15.68%
Mg 279.077†	26772.4	85.50	mg/L	0.464	15750	mg/kg	85.4	0.54%
Mg 280.271†	3622183.9	76.46	mg/L	1.074	14090	mg/kg	197.8	1.40%
Mg 285.213†	317836.4	79.40	mg/L	1.258	14630	mg/kg	231.8	1.58%
Mn 257.610†	13027.6	1.108	mg/L	0.0013	204.1	mg/kg	0.24	0.12%
Mn 259.372†	13263.7	1.095	mg/L	0.0021	201.7	mg/kg	0.38	0.19%
Mn 260.568†	8147.8	1.109	mg/L	0.0059	204.3	mg/kg	1.08	0.53%
Mo 202.031†	9.2	0.8262	mg/L	0.14035	152.2	mg/kg	25.86	16.99%
Mo 203.845†	4.6	0.1526	mg/L	0.10925	28.12	mg/kg	20.131	71.58%
Mo 204.597†	1.3	0.02112	mg/L	0.063484	3.891	mg/kg	11.6977	300.61%
Na 588.995†	6268.8	1.076	mg/L	0.0545	198.3	mg/kg	10.04	5.06%
Na 589.592†	3958.3	1.014	mg/L	0.0129	186.9	mg/kg	2.37	1.27%
Ni 221.648†	9.8	0.1348	mg/L	0.02341	24.84	mg/kg	4.314	17.37%
Ni 231.604†	38.1	0.1305	mg/L	0.00385	24.05	mg/kg	0.709	2.95%
Ni 232.003†	18.8	0.1044	mg/L	0.01284	19.23	mg/kg	2.367	12.31%
Pb 217.000†	22.0	0.8495	mg/L	0.06371	156.5	mg/kg	11.74	7.50%
Pb 220.353†	41.1	0.8986	mg/L	0.02617	165.6	mg/kg	4.82	2.91%
Sb 206.836†	2.9	0.1023	mg/L	0.06948	18.86	mg/kg	12.803	67.90%
Sb 217.582†	-2.7	-0.1168	mg/L	0.08134	-21.53	mg/kg	14.987	69.61%
Sb 231.146†	-0.8	-0.04611	mg/L	0.160995	-8.497	mg/kg	29.6655	349.14%
Se 196.026†	-3.4	-0.4984	mg/L	0.26715	-91.84	mg/kg	49.225	53.60%
Se 203.985†	0.0	-0.08545	mg/L	0.255306	-15.74	mg/kg	47.044	298.79%
Sn 189.927†	2.3	0.2430	mg/L	0.08251	44.78	mg/kg	15.204	33.95%
Sn 235.485†	1399.2	-2.461	mg/L	0.6184	-453.5	mg/kg	113.94	25.13%
Sn 283.998†	-10.1	0.01876	mg/L	0.012867	3.456	mg/kg	2.3709	68.60%
Sr 407.771†	26225.4	0.07937	mg/L	0.000437	14.62	mg/kg	0.081	0.55%
Sr 421.552†	11840.7	0.07982	mg/L	0.000244	14.71	mg/kg	0.045	0.31%
Sr 460.733†	135.7	0.05534	mg/L	0.029541	10.20	mg/kg	5.443	53.38%
Ti 334.940†	18684.5	0.9471	mg/L	0.00726	174.5	mg/kg	1.34	0.77%
Ti 336.121†	13161.7	0.9437	mg/L	0.00230	173.9	mg/kg	0.42	0.24%
Ti 337.279†	6876.7	0.9434	mg/L	0.00544	173.8	mg/kg	1.00	0.58%
Tl 190.801†	0.4	0.1356	mg/L	0.30932	24.99	mg/kg	56.996	228.09%
Tl 276.787†	331.0	1.562	mg/L	0.0279	287.7	mg/kg	5.13	1.78%
Tl 351.924†	-4.4	-0.03848	mg/L	0.022221	-7.091	mg/kg	4.0946	57.74%
V 290.880†	114.7	0.05556	mg/L	0.006813	10.24	mg/kg	1.255	12.26%
V 309.310†	2370.2	0.08231	mg/L	0.004462	15.17	mg/kg	0.822	5.42%
V 310.230†	524.1	0.07036	mg/L	0.005725	12.96	mg/kg	1.055	8.14%
Zn 202.548†	436.9	1.615	mg/L	0.0393	297.6	mg/kg	7.25	2.44%
Zn 206.200†	505.7	1.664	mg/L	0.0263	306.6	mg/kg	4.85	1.58%
Zn 213.857†	811.6	1.702	mg/L	0.0301	313.6	mg/kg	5.55	1.77%

Sequence No.: 54 **Autosampler Location: 35**
Sample ID: 0305007-30 **Date Collected: 8/19/03 2:38:19 PM**
Analyst:
Sample Wt: 0.5631 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:33 AM,**

Mean Data: 0305007-30

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158666.5						1793.14	1.13%
Ag 328.068†	0.3	0.00316	mg/L	0.001834	0.5618	mg/kg	0.32578	57.99%
Ag 338.289†	-30.8	-0.00318	mg/L	0.001352	-0.5642	mg/kg	0.24011	42.56%

Al 308.215†	6067.4	9.736 mg/L	0.0186	1729 mg/kg	3.3	0.19%
Al 394.401†	8373.7	10.04 mg/L	0.061	1783 mg/kg	10.8	0.60%
Al 396.153†	18846.1	10.25 mg/L	0.058	1820 mg/kg	10.2	0.56%
As 188.979†	3.8	0.4395 mg/L	0.28209	78.05 mg/kg	50.096	64.18%
As 193.696†	0.2	0.1041 mg/L	0.21699	18.49 mg/kg	38.534	208.40%
As 197.197†	-3.7	-0.2768 mg/L	0.20787	-49.16 mg/kg	36.916	75.10%
B 208.889†	5.3	0.06731 mg/L	0.036026	11.95 mg/kg	6.398	53.52%
B 249.677†	16.4	0.04140 mg/L	0.008011	7.353 mg/kg	1.4226	19.35%
B 249.772†	101.4	0.03129 mg/L	0.000528	5.556 mg/kg	0.0937	1.69%
Ba 233.527†	205.7	0.09816 mg/L	0.001319	17.43 mg/kg	0.234	1.34%
Ba 455.403†	13201.5	0.1139 mg/L	0.00068	20.23 mg/kg	0.121	0.60%
Ba 493.408†	12722.1	0.1118 mg/L	0.00044	19.86 mg/kg	0.078	0.39%
Be 234.861†	151.4	0.00169 mg/L	0.001803	0.3005 mg/kg	0.32021	106.55%
Be 313.042†	74.9	0.00088 mg/L	0.000050	0.1567 mg/kg	0.00881	5.62%
Be 313.107†	35.4	0.00100 mg/L	0.000020	0.1771 mg/kg	0.00357	2.02%
Ca 315.887†	287978.8	156.7 mg/L	3.30	27830 mg/kg	585.9	2.11%
Ca 317.933†	276302.4	147.0 mg/L	2.91	26110 mg/kg	517.0	1.98%
Cd 214.440†	27.9	0.03143 mg/L	0.003052	5.582 mg/kg	0.5421	9.71%
Cd 226.502†	13.1	0.01969 mg/L	0.004346	3.498 mg/kg	0.7719	22.07%
Cd 228.802†	21.0	0.02889 mg/L	0.001575	5.130 mg/kg	0.2797	5.45%
Ce 413.380†	66.5	0.03495 mg/L	0.025665	6.206 mg/kg	4.5578	73.44%
Ce 413.764†	84.8	0.06208 mg/L	0.008099	11.03 mg/kg	1.438	13.05%
Ce 418.660†	97.4	0.05972 mg/L	0.015048	10.60 mg/kg	2.672	25.20%
Co 228.616†	11.2	0.01895 mg/L	0.002225	3.365 mg/kg	0.3951	11.74%
Co 230.786†	16.4	0.02229 mg/L	0.005812	3.959 mg/kg	1.0322	26.07%
Co 238.892†	117.9	0.00908 mg/L	0.024068	1.613 mg/kg	4.2741	264.98%
Cr 205.560†	48.9	0.3875 mg/L	0.00997	68.82 mg/kg	1.771	2.57%
Cr 267.716†	310.4	0.3813 mg/L	0.00495	67.71 mg/kg	0.880	1.30%
Cr 283.563†	1906.6	0.3776 mg/L	0.00423	67.06 mg/kg	0.751	1.12%
Cu 224.700†	79.5	0.2900 mg/L	0.01075	51.50 mg/kg	1.909	3.71%
Cu 324.752†	1700.5	0.2831 mg/L	0.00312	50.28 mg/kg	0.554	1.10%
Cu 327.393†	761.2	0.2844 mg/L	0.00377	50.51 mg/kg	0.670	1.33%
Fe 238.204†	194662.3	128.0 mg/L	0.35	22740 mg/kg	61.7	0.27%
Fe 239.562†	111435.7	127.2 mg/L	0.18	22590 mg/kg	32.2	0.14%
Fe 259.939†	373425.3	128.7 mg/L	2.69	22850 mg/kg	477.2	2.09%
Fe 273.955†	60424.2	141.3 mg/L	0.57	25090 mg/kg	101.1	0.40%
K 766.490†	1424.2	1.065 mg/L	0.0153	189.1 mg/kg	2.71	1.43%
Li 610.362†	1227.2	0.1744 mg/L	0.09686	30.97 mg/kg	17.201	55.55%
Li 670.784†	453.8	0.01395 mg/L	0.002241	2.477 mg/kg	0.3979	16.07%
Mg 279.077†	23438.1	74.84 mg/L	0.355	13290 mg/kg	63.0	0.47%
Mg 280.271†	3253744.4	68.68 mg/L	1.397	12200 mg/kg	248.1	2.03%
Mg 285.213†	283542.8	70.83 mg/L	1.320	12580 mg/kg	234.4	1.86%
Mn 257.610†	15965.7	1.358 mg/L	0.0094	241.2 mg/kg	1.66	0.69%
Mn 259.372†	16351.2	1.347 mg/L	0.0043	239.2 mg/kg	0.77	0.32%
Mn 260.568†	10047.7	1.368 mg/L	0.0065	242.9 mg/kg	1.16	0.48%
Mo 202.031†	10.1	0.9549 mg/L	0.16052	169.6 mg/kg	28.51	16.81%
Mo 203.845†	3.9	0.1220 mg/L	0.05339	21.66 mg/kg	9.481	43.77%
Mo 204.597†	1.9	0.03056 mg/L	0.039992	5.427 mg/kg	7.1021	130.86%
Na 588.995†	3011.2	0.5171 mg/L	0.04736	91.82 mg/kg	8.411	9.16%
Na 589.592†	2216.4	0.5680 mg/L	0.00767	100.9 mg/kg	1.36	1.35%
Ni 221.648†	9.6	0.1297 mg/L	0.00534	23.04 mg/kg	0.948	4.11%
Ni 231.604†	39.5	0.1350 mg/L	0.00634	23.98 mg/kg	1.125	4.69%
Ni 232.003†	20.5	0.1039 mg/L	0.01346	18.45 mg/kg	2.391	12.96%
Pb 217.000†	32.1	1.313 mg/L	0.1002	233.3 mg/kg	17.80	7.63%
Pb 220.353†	59.3	1.329 mg/L	0.0280	236.0 mg/kg	4.98	2.11%
Sb 206.836†	2.1	0.06868 mg/L	0.033097	12.20 mg/kg	5.878	48.19%
Sb 217.582†	-1.2	-0.05657 mg/L	0.052083	-10.05 mg/kg	9.249	92.06%
Sb 231.146†	-2.3	-0.1216 mg/L	0.08487	-21.60 mg/kg	15.072	69.78%
Se 196.026†	-3.7	-0.5396 mg/L	0.14972	-95.82 mg/kg	26.589	27.75%
Se 203.985†	2.8	0.2639 mg/L	0.26018	46.86 mg/kg	46.205	98.60%
Sn 189.927†	5.5	0.6391 mg/L	0.05032	113.5 mg/kg	8.94	7.87%
Sn 235.485†	1747.8	-3.453 mg/L	0.5357	-613.3 mg/kg	95.13	15.51%
Sn 283.998†	44.2	0.1157 mg/L	0.01522	20.55 mg/kg	2.704	13.16%
Sr 407.771†	23279.7	0.07061 mg/L	0.000270	12.54 mg/kg	0.048	0.38%
Sr 421.552†	10507.1	0.07090 mg/L	0.000303	12.59 mg/kg	0.054	0.43%
Sr 460.733†	78.3	0.02832 mg/L	0.025252	5.030 mg/kg	4.4845	89.16%
Ti 334.940†	12699.2	0.6446 mg/L	0.00174	114.5 mg/kg	0.31	0.27%
Ti 336.121†	8974.8	0.6427 mg/L	0.00161	114.1 mg/kg	0.29	0.25%
Ti 337.279†	4648.9	0.6375 mg/L	0.00696	113.2 mg/kg	1.24	1.09%
Tl 190.801†	-1.2	-0.2062 mg/L	0.45237	-36.61 mg/kg	80.336	219.42%
Tl 276.787†	295.9	1.406 mg/L	0.1166	249.7 mg/kg	20.70	8.29%

Tl 351.924†	-10.0	-0.07445	mg/L	0.042826	-13.22	mg/kg	7.605	57.52%
V 290.880†	72.7	0.03652	mg/L	0.002562	6.486	mg/kg	0.4549	7.01%
V 309.310†	1968.6	0.05922	mg/L	0.002843	10.52	mg/kg	0.505	4.80%
V 310.230†	373.3	0.04999	mg/L	0.003562	8.877	mg/kg	0.6325	7.12%
Zn 202.548†	757.8	2.806	mg/L	0.0516	498.3	mg/kg	9.16	1.84%
Zn 206.200†	873.8	2.872	mg/L	0.0407	510.0	mg/kg	7.23	1.42%
Zn 213.857†	1396.4	2.939	mg/L	0.0279	522.0	mg/kg	4.95	0.95%

Sequence No.: 55 **Autosampler Location: 37**
Sample ID: 0305007-31 **Date Collected: 8/19/03 2:42:14 PM**
Analyst:
Sample Wt: 0.5454 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:39 AM,**

Mean Data: 0305007-31

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158244.2						1122.76	0.71%
Ag 328.068†	11.9	0.00583	mg/L	0.001431	1.068	mg/kg	0.2623	24.55%
Ag 338.289†	-62.5	0.00328	mg/L	0.001312	0.6012	mg/kg	0.24062	40.02%
Al 308.215†	10676.0	17.16	mg/L	0.222	3146	mg/kg	40.6	1.29%
Al 394.401†	14754.0	17.66	mg/L	0.253	3238	mg/kg	46.4	1.43%
Al 396.153†	32958.5	17.95	mg/L	0.218	3291	mg/kg	40.0	1.21%
As 188.979†	2.4	0.2931	mg/L	0.14216	53.74	mg/kg	26.066	48.50%
As 193.696†	2.4	0.5152	mg/L	0.30985	94.47	mg/kg	56.812	60.14%
As 197.197†	-2.2	-0.1010	mg/L	0.70762	-18.52	mg/kg	129.744	700.58%
B 208.889†	4.7	0.04788	mg/L	0.046137	8.779	mg/kg	8.4594	96.36%
B 249.677†	9.8	0.03360	mg/L	0.001407	6.161	mg/kg	0.2580	4.19%
B 249.772†	216.3	0.00710	mg/L	0.001385	1.301	mg/kg	0.2539	19.51%
Ba 233.527†	627.2	0.3013	mg/L	0.00224	55.24	mg/kg	0.410	0.74%
Ba 455.403†	40581.1	0.3511	mg/L	0.00488	64.38	mg/kg	0.896	1.39%
Ba 493.408†	39017.3	0.3440	mg/L	0.00477	63.07	mg/kg	0.874	1.39%
Be 234.861†	392.9	0.00141	mg/L	0.000571	0.2578	mg/kg	0.10463	40.59%
Be 313.042†	168.5	0.00231	mg/L	0.000098	0.4239	mg/kg	0.01796	4.24%
Be 313.107†	81.0	0.00229	mg/L	0.000167	0.4196	mg/kg	0.03070	7.32%
Ca 315.887†	202092.8	110.0	mg/L	0.27	20170	mg/kg	48.7	0.24%
Ca 317.933†	194173.3	103.3	mg/L	0.18	18940	mg/kg	32.7	0.17%
Cd 214.440†	51.2	0.05727	mg/L	0.002022	10.50	mg/kg	0.371	3.53%
Cd 226.502†	41.4	0.05357	mg/L	0.006355	9.822	mg/kg	1.1651	11.86%
Cd 228.802†	38.0	0.05039	mg/L	0.004057	9.239	mg/kg	0.7439	8.05%
Ce 413.380†	143.3	0.05329	mg/L	0.026054	9.770	mg/kg	4.7770	48.89%
Ce 413.764†	130.8	0.08980	mg/L	0.011973	16.47	mg/kg	2.195	13.33%
Ce 418.660†	180.5	0.1013	mg/L	0.03293	18.58	mg/kg	6.037	32.49%
Co 228.616†	16.0	0.02299	mg/L	0.007198	4.214	mg/kg	1.3198	31.32%
Co 230.786†	19.5	0.01974	mg/L	0.003553	3.620	mg/kg	0.6514	18.00%
Co 238.892†	361.5	0.06779	mg/L	0.051484	12.43	mg/kg	9.440	75.95%
Cr 205.560†	126.0	1.003	mg/L	0.0165	183.8	mg/kg	3.03	1.65%
Cr 267.716†	832.8	1.025	mg/L	0.0056	187.8	mg/kg	1.03	0.55%
Cr 283.563†	5256.6	1.028	mg/L	0.0132	188.6	mg/kg	2.41	1.28%
Cu 224.700†	230.6	0.8523	mg/L	0.00870	156.3	mg/kg	1.60	1.02%
Cu 324.752†	5188.9	0.8663	mg/L	0.01096	158.8	mg/kg	2.01	1.26%
Cu 327.393†	2262.4	0.8534	mg/L	0.00826	156.5	mg/kg	1.51	0.97%
Fe 238.204†	549675.3	361.5	mg/L	0.44	66280	mg/kg	80.1	0.12%
Fe 239.562†	318197.5	363.2	mg/L	0.56	66590	mg/kg	103.5	0.16%
Fe 259.939†	1055258.8	363.6	mg/L	0.19	66670	mg/kg	34.0	0.05%
Fe 273.955†	175077.0	409.3	mg/L	0.23	75050	mg/kg	41.8	0.06%
K 766.490†	1599.9	1.196	mg/L	0.0601	219.3	mg/kg	11.02	5.03%
Li 610.362†	1686.2	0.2507	mg/L	0.01416	45.97	mg/kg	2.597	5.65%
Li 670.784†	474.2	0.01487	mg/L	0.002069	2.726	mg/kg	0.3793	13.92%
Mg 279.077†	13967.5	44.49	mg/L	0.311	8158	mg/kg	57.0	0.70%
Mg 280.271†	1986633.5	41.90	mg/L	0.023	7683	mg/kg	4.2	0.05%
Mg 285.213†	170589.2	42.59	mg/L	0.021	7809	mg/kg	3.8	0.05%
Mn 257.610†	33073.9	2.814	mg/L	0.0376	516.0	mg/kg	6.89	1.34%
Mn 259.372†	35183.4	2.782	mg/L	0.0421	510.0	mg/kg	7.72	1.51%
Mn 260.568†	20848.7	2.835	mg/L	0.0395	519.8	mg/kg	7.25	1.39%
Mo 202.031†	6.1	0.5456	mg/L	0.23171	100.0	mg/kg	42.48	42.47%
Mo 203.845†	8.2	0.2165	mg/L	0.03379	39.69	mg/kg	6.195	15.61%
Mo 204.597†	4.4	0.06791	mg/L	0.046422	12.45	mg/kg	8.512	68.35%
Na 588.995†	2170.8	0.3727	mg/L	0.02288	68.34	mg/kg	4.194	6.14%

Na 589.592†	1745.4	0.4473	mg/L	0.02615	82.01	mg/kg	4.795	5.85%
Ni 221.648†	19.7	0.2512	mg/L	0.03166	46.06	mg/kg	5.806	12.60%
Ni 231.604†	86.9	0.2960	mg/L	0.00338	54.27	mg/kg	0.620	1.14%
Ni 232.003†	61.9	0.3047	mg/L	0.01718	55.86	mg/kg	3.150	5.64%
Pb 217.000†	80.6	3.346	mg/L	0.1552	613.5	mg/kg	28.46	4.64%
Pb 220.353†	139.8	3.266	mg/L	0.1148	598.9	mg/kg	21.05	3.52%
Sb 206.836†	3.5	0.1388	mg/L	0.05806	25.45	mg/kg	10.646	41.82%
Sb 217.582†	3.4	0.07086	mg/L	0.054154	12.99	mg/kg	9.929	76.43%
Sb 231.146†	0.8	0.00480	mg/L	0.069085	0.8800	mg/kg	12.66679	>999.9%
Se 196.026†	-0.7	-0.1474	mg/L	0.27730	-27.02	mg/kg	50.844	188.14%
Se 203.985†	2.4	0.03053	mg/L	0.131039	5.598	mg/kg	24.0262	429.18%
Sn 189.927†	9.3	1.117	mg/L	0.2946	204.9	mg/kg	54.02	26.37%
Sn 235.485†	5116.0	-8.661	mg/L	2.0142	-1588	mg/kg	369.3	23.26%
Sn 283.998†	226.8	0.5641	mg/L	0.00895	103.4	mg/kg	1.64	1.59%
Sr 407.771†	26900.0	0.08343	mg/L	0.001512	15.30	mg/kg	0.277	1.81%
Sr 421.552†	12257.7	0.08411	mg/L	0.001131	15.42	mg/kg	0.207	1.35%
Sr 460.733†	177.1	0.07777	mg/L	0.025434	14.26	mg/kg	4.663	32.70%
Ti 334.940†	15365.1	0.7778	mg/L	0.00730	142.6	mg/kg	1.34	0.94%
Ti 336.121†	10772.8	0.7733	mg/L	0.00909	141.8	mg/kg	1.67	1.18%
Ti 337.279†	5624.6	0.7711	mg/L	0.00962	141.4	mg/kg	1.76	1.25%
Tl 190.801†	1.9	0.3274	mg/L	0.25653	60.04	mg/kg	47.035	78.34%
Tl 276.787†	193.0	0.8402	mg/L	0.18783	154.1	mg/kg	34.44	22.35%
Tl 351.924†	2.2	-0.00457	mg/L	0.047192	-0.8376	mg/kg	8.65267	>999.9%
V 290.880†	259.5	0.07957	mg/L	0.003890	14.59	mg/kg	0.713	4.89%
V 309.310†	1574.5	0.1080	mg/L	0.00359	19.80	mg/kg	0.659	3.33%
V 310.230†	665.6	0.09068	mg/L	0.003032	16.63	mg/kg	0.556	3.34%
Zn 202.548†	1800.5	6.672	mg/L	0.0806	1223	mg/kg	14.8	1.21%
Zn 206.200†	2069.4	6.802	mg/L	0.0565	1247	mg/kg	10.4	0.83%
Zn 213.857†	3277.8	6.910	mg/L	0.0508	1267	mg/kg	9.3	0.73%

Sequence No.: 56 **Autosampler Location: 39**
Sample ID: 0305007-32 **Date Collected: 8/19/03 2:46:10 PM**
Analyst:
Sample Wt: 0.6116 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:46 AM,**

Mean Data: 0305007-32

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159708.8						2043.64	1.28%
Ag 328.068†	26.0	0.00875	mg/L	0.002292	1.431	mg/kg	0.3748	26.18%
Ag 338.289†	-66.0	0.00639	mg/L	0.002311	1.046	mg/kg	0.3778	36.14%
Al 308.215†	13606.4	21.88	mg/L	0.575	3578	mg/kg	94.0	2.63%
Al 394.401†	18951.3	22.64	mg/L	0.494	3703	mg/kg	80.8	2.18%
Al 396.153†	41977.5	22.87	mg/L	0.472	3740	mg/kg	77.2	2.06%
As 188.979†	1.4	0.2009	mg/L	0.06047	32.85	mg/kg	9.887	30.10%
As 193.696†	1.9	0.3816	mg/L	0.21863	62.39	mg/kg	35.748	57.30%
As 197.197†	-1.9	-0.2290	mg/L	0.37588	-37.44	mg/kg	61.459	164.16%
B 208.889†	2.7	0.02039	mg/L	0.054865	3.334	mg/kg	8.9707	269.04%
B 249.677†	3.4	0.02045	mg/L	0.005147	3.344	mg/kg	0.8416	25.17%
B 249.772†	242.4	0.00155	mg/L	0.002521	0.2537	mg/kg	0.41226	162.51%
Ba 233.527†	1185.2	0.5951	mg/L	0.00534	97.31	mg/kg	0.873	0.90%
Ba 455.403†	77241.2	0.6689	mg/L	0.01469	109.4	mg/kg	2.40	2.20%
Ba 493.408†	74850.9	0.6628	mg/L	0.00308	108.4	mg/kg	0.50	0.46%
Be 234.861†	466.3	0.00299	mg/L	0.002486	0.4887	mg/kg	0.40649	83.17%
Be 313.042†	186.0	0.00265	mg/L	0.000111	0.4326	mg/kg	0.01817	4.20%
Be 313.107†	90.4	0.00256	mg/L	0.000150	0.4185	mg/kg	0.02455	5.87%
Ca 315.887†	55169.6	30.03	mg/L	0.588	4911	mg/kg	96.1	1.96%
Ca 317.933†	52763.4	28.08	mg/L	0.532	4592	mg/kg	87.0	1.89%
Cd 214.440†	49.0	0.05480	mg/L	0.001379	8.960	mg/kg	0.2254	2.52%
Cd 226.502†	44.9	0.05352	mg/L	0.001223	8.751	mg/kg	0.1999	2.28%
Cd 228.802†	37.5	0.05195	mg/L	0.003176	8.494	mg/kg	0.5193	6.11%
Ce 413.380†	152.5	0.04941	mg/L	0.017714	8.079	mg/kg	2.8963	35.85%
Ce 413.764†	124.3	0.08305	mg/L	0.006663	13.58	mg/kg	1.090	8.02%
Ce 418.660†	175.8	0.09400	mg/L	0.017357	15.37	mg/kg	2.838	18.47%
Co 228.616†	15.5	0.02001	mg/L	0.001128	3.272	mg/kg	0.1844	5.64%
Co 230.786†	16.3	0.01262	mg/L	0.002067	2.063	mg/kg	0.3380	16.39%
Co 238.892†	417.9	0.08538	mg/L	0.042448	13.96	mg/kg	6.941	49.72%
Cr 205.560†	245.4	1.951	mg/L	0.0163	319.0	mg/kg	2.66	0.83%

Cr 267.716†	1608.3	1.974	mg/L	0.0135	322.8	mg/kg	2.21	0.68%
Cr 283.563†	9499.7	1.983	mg/L	0.0504	324.3	mg/kg	8.24	2.54%
Cu 224.700†	367.5	1.387	mg/L	0.0156	226.8	mg/kg	2.55	1.12%
Cu 324.752†	8320.9	1.396	mg/L	0.0247	228.2	mg/kg	4.04	1.77%
Cu 327.393†	3664.3	1.389	mg/L	0.0149	227.2	mg/kg	2.44	1.08%
Fe 238.204†	626290.2	411.9	mg/L	0.79	67350	mg/kg	128.6	0.19%
Fe 239.562†	363294.0	414.6	mg/L	0.56	67800	mg/kg	91.2	0.13%
Fe 259.939†	1201468.3	414.0	mg/L	0.56	67690	mg/kg	91.6	0.14%
Fe 273.955†	200539.9	468.8	mg/L	1.15	76660	mg/kg	188.5	0.25%
K 766.490†	2613.7	1.954	mg/L	0.0704	319.5	mg/kg	11.51	3.60%
Li 610.362†	1422.2	0.2164	mg/L	0.03623	35.39	mg/kg	5.924	16.74%
Li 670.784†	305.6	0.00987	mg/L	0.000024	1.614	mg/kg	0.0039	0.24%
Mg 279.077†	4052.9	12.80	mg/L	0.126	2093	mg/kg	20.6	0.99%
Mg 280.271†	590683.9	12.43	mg/L	0.024	2032	mg/kg	3.9	0.19%
Mg 285.213†	49425.4	12.31	mg/L	0.238	2013	mg/kg	38.9	1.93%
Mn 257.610†	16867.3	1.432	mg/L	0.0310	234.1	mg/kg	5.08	2.17%
Mn 259.372†	20993.6	1.406	mg/L	0.0414	229.9	mg/kg	6.77	2.95%
Mn 260.568†	10682.5	1.440	mg/L	0.0292	235.5	mg/kg	4.77	2.03%
Mo 202.031†	2.6	0.2177	mg/L	0.13241	35.59	mg/kg	21.650	60.83%
Mo 203.845†	8.7	0.2143	mg/L	0.02506	35.03	mg/kg	4.097	11.69%
Mo 204.597†	8.0	0.1280	mg/L	0.03525	20.94	mg/kg	5.764	27.53%
Na 588.995†	2490.3	0.4276	mg/L	0.06491	69.91	mg/kg	10.612	15.18%
Na 589.592†	2038.7	0.5224	mg/L	0.01101	85.42	mg/kg	1.801	2.11%
Ni 221.648†	30.3	0.3796	mg/L	0.01672	62.06	mg/kg	2.733	4.40%
Ni 231.604†	108.1	0.3688	mg/L	0.01004	60.29	mg/kg	1.642	2.72%
Ni 232.003†	84.2	0.3821	mg/L	0.00455	62.48	mg/kg	0.745	1.19%
Pb 217.000†	92.9	3.879	mg/L	0.1009	634.2	mg/kg	16.50	2.60%
Pb 220.353†	165.1	3.908	mg/L	0.1033	639.1	mg/kg	16.90	2.64%
Sb 206.836†	1.9	0.06467	mg/L	0.059102	10.57	mg/kg	9.663	91.39%
Sb 217.582†	5.4	0.1160	mg/L	0.07860	18.96	mg/kg	12.852	67.79%
Sb 231.146†	0.1	-0.04259	mg/L	0.100285	-6.963	mg/kg	16.3971	235.49%
Se 196.026†	-1.5	-0.2716	mg/L	0.15164	-44.42	mg/kg	24.795	55.82%
Se 203.985†	4.5	0.1565	mg/L	0.34011	25.58	mg/kg	55.609	217.38%
Sn 189.927†	17.0	2.064	mg/L	0.0729	337.5	mg/kg	11.91	3.53%
Sn 235.485†	5875.7	-9.512	mg/L	4.2427	-1555	mg/kg	693.7	44.60%
Sn 283.998†	532.3	1.067	mg/L	0.0046	174.4	mg/kg	0.75	0.43%
Sr 407.771†	23864.1	0.07561	mg/L	0.001542	12.36	mg/kg	0.252	2.04%
Sr 421.552†	10941.4	0.07648	mg/L	0.001882	12.50	mg/kg	0.308	2.46%
Sr 460.733†	103.1	0.04568	mg/L	0.006043	7.469	mg/kg	0.9881	13.23%
Ti 334.940†	18122.2	0.9143	mg/L	0.02086	149.5	mg/kg	3.41	2.28%
Ti 336.121†	12676.5	0.9122	mg/L	0.02416	149.2	mg/kg	3.95	2.65%
Ti 337.279†	6588.2	0.9036	mg/L	0.02252	147.7	mg/kg	3.68	2.49%
Tl 190.801†	1.2	0.1350	mg/L	0.22427	22.08	mg/kg	36.670	166.08%
Tl 276.787†	71.6	0.2454	mg/L	0.10109	40.13	mg/kg	16.528	41.19%
Tl 351.924†	-12.6	-0.1032	mg/L	0.01181	-16.87	mg/kg	1.930	11.44%
V 290.880†	418.3	0.1241	mg/L	0.00108	20.30	mg/kg	0.177	0.87%
V 309.310†	1060.5	0.1333	mg/L	0.00311	21.80	mg/kg	0.508	2.33%
V 310.230†	887.5	0.1216	mg/L	0.00306	19.89	mg/kg	0.500	2.51%
Zn 202.548†	1696.4	6.283	mg/L	0.0544	1027	mg/kg	8.9	0.87%
Zn 206.200†	1959.2	6.442	mg/L	0.0608	1053	mg/kg	9.9	0.94%
Zn 213.857†	3050.2	6.430	mg/L	0.0523	1051	mg/kg	8.6	0.81%

Sequence No.: 57 **Autosampler Location: 41**
Sample ID: 0305007-33 **Date Collected: 8/19/03 2:49:57 PM**
Analyst:
Sample Wt: 0.5264 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 9:07:52 AM,**

Mean Data: 0305007-33

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157882.5						2119.45	1.34%
Ag 328.068†	-5.0	0.00160	mg/L	0.001462	0.3046	mg/kg	0.27781	91.20%
Ag 338.289†	-45.9	-0.00205	mg/L	0.002650	-0.3893	mg/kg	0.50341	129.31%
Al 308.215†	4370.6	7.015	mg/L	0.0975	1333	mg/kg	18.5	1.39%
Al 394.401†	6111.3	7.343	mg/L	0.0485	1395	mg/kg	9.2	0.66%
Al 396.153†	13779.9	7.491	mg/L	0.0480	1423	mg/kg	9.1	0.64%
As 188.979†	2.7	0.3176	mg/L	0.09856	60.33	mg/kg	18.723	31.04%
As 193.696†	1.4	0.3229	mg/L	0.47680	61.33	mg/kg	90.578	147.68%

As 197.197†	-3.0	-0.2223	mg/L	0.17449	-42.23	mg/kg	33.147	78.49%
B 208.889†	5.5	0.06918	mg/L	0.034529	13.14	mg/kg	6.559	49.91%
B 249.677†	10.7	0.03083	mg/L	0.001669	5.857	mg/kg	0.3170	5.41%
B 249.772†	135.2	0.01608	mg/L	0.003043	3.055	mg/kg	0.5781	18.92%
Ba 233.527†	384.4	0.1859	mg/L	0.00430	35.32	mg/kg	0.818	2.31%
Ba 455.403†	25103.7	0.2171	mg/L	0.00065	41.25	mg/kg	0.124	0.30%
Ba 493.408†	24157.5	0.2131	mg/L	0.00145	40.48	mg/kg	0.275	0.68%
Be 234.861†	225.6	0.00079	mg/L	0.000518	0.1491	mg/kg	0.09839	65.97%
Be 313.042†	77.8	0.00097	mg/L	0.000029	0.1834	mg/kg	0.00558	3.04%
Be 313.107†	34.0	0.00095	mg/L	0.000030	0.1813	mg/kg	0.00578	3.19%
Ca 315.887†	221287.9	120.4	mg/L	0.30	22880	mg/kg	57.1	0.25%
Ca 317.933†	212018.2	112.8	mg/L	0.12	21430	mg/kg	23.2	0.11%
Cd 214.440†	8.1	0.00683	mg/L	0.003927	1.297	mg/kg	0.7460	57.50%
Cd 226.502†	9.6	0.00541	mg/L	0.004515	1.027	mg/kg	0.8578	83.50%
Cd 228.802†	2.9	0.00378	mg/L	0.005288	0.7183	mg/kg	1.00458	139.86%
Ce 413.380†	57.8	0.00886	mg/L	0.019424	1.684	mg/kg	3.6900	219.12%
Ce 413.764†	84.6	0.05858	mg/L	0.001070	11.13	mg/kg	0.203	1.83%
Ce 418.660†	93.6	0.05295	mg/L	0.011318	10.06	mg/kg	2.150	21.37%
Co 228.616†	17.1	0.02817	mg/L	0.006400	5.351	mg/kg	1.2158	22.72%
Co 230.786†	16.6	0.01992	mg/L	0.002479	3.785	mg/kg	0.4709	12.44%
Co 238.892†	188.8	0.00152	mg/L	0.018496	0.2896	mg/kg	3.51366	>999.9%
Cr 205.560†	17.7	0.1415	mg/L	0.00896	26.88	mg/kg	1.702	6.33%
Cr 267.716†	118.7	0.1501	mg/L	0.00557	28.52	mg/kg	1.057	3.71%
Cr 283.563†	1043.1	0.1337	mg/L	0.00421	25.40	mg/kg	0.800	3.15%
Cu 224.700†	91.8	0.3251	mg/L	0.01017	61.75	mg/kg	1.932	3.13%
Cu 324.752†	1944.3	0.3228	mg/L	0.00351	61.33	mg/kg	0.667	1.09%
Cu 327.393†	873.9	0.3272	mg/L	0.00563	62.16	mg/kg	1.069	1.72%
Fe 238.204†	319502.5	210.1	mg/L	0.47	39920	mg/kg	89.4	0.22%
Fe 239.562†	183299.0	209.2	mg/L	0.48	39740	mg/kg	91.2	0.23%
Fe 259.939†	610643.6	210.4	mg/L	0.39	39970	mg/kg	74.0	0.19%
Fe 273.955†	100462.7	234.9	mg/L	0.52	44620	mg/kg	99.6	0.22%
K 766.490†	1330.8	0.9949	mg/L	0.02988	189.0	mg/kg	5.68	3.00%
Li 610.362†	1111.2	0.1547	mg/L	0.11166	29.39	mg/kg	21.213	72.18%
Li 670.784†	158.2	0.00579	mg/L	0.000667	1.100	mg/kg	0.1266	11.51%
Mg 279.077†	18531.7	59.13	mg/L	0.265	11230	mg/kg	50.3	0.45%
Mg 280.271†	2580312.4	54.45	mg/L	0.136	10340	mg/kg	25.9	0.25%
Mg 285.213†	222750.5	55.63	mg/L	0.115	10570	mg/kg	21.8	0.21%
Mn 257.610†	14681.6	1.248	mg/L	0.0074	237.0	mg/kg	1.40	0.59%
Mn 259.372†	16290.0	1.235	mg/L	0.0067	234.7	mg/kg	1.28	0.54%
Mn 260.568†	9310.9	1.263	mg/L	0.0092	239.9	mg/kg	1.74	0.73%
Mo 202.031†	8.5	0.8046	mg/L	0.22414	152.9	mg/kg	42.58	27.86%
Mo 203.845†	7.2	0.2172	mg/L	0.05066	41.25	mg/kg	9.624	23.33%
Mo 204.597†	7.7	0.1301	mg/L	0.01507	24.72	mg/kg	2.863	11.58%
Na 588.995†	2164.0	0.3716	mg/L	0.05768	70.59	mg/kg	10.957	15.52%
Na 589.592†	1761.1	0.4513	mg/L	0.02495	85.73	mg/kg	4.739	5.53%
Ni 221.648†	31.5	0.4036	mg/L	0.01101	76.66	mg/kg	2.091	2.73%
Ni 231.604†	114.3	0.3931	mg/L	0.01745	74.68	mg/kg	3.314	4.44%
Ni 232.003†	69.9	0.3983	mg/L	0.00726	75.67	mg/kg	1.379	1.82%
Pb 217.000†	79.6	3.493	mg/L	0.0267	663.5	mg/kg	5.07	0.76%
Pb 220.353†	153.0	3.514	mg/L	0.0500	667.6	mg/kg	9.50	1.42%
Sb 206.836†	0.3	0.00140	mg/L	0.079222	0.2668	mg/kg	15.04970	>999.9%
Sb 217.582†	-0.3	-0.06133	mg/L	0.088981	-11.65	mg/kg	16.904	145.10%
Sb 231.146†	-1.3	-0.08589	mg/L	0.095662	-16.32	mg/kg	18.173	111.38%
Se 196.026†	-2.5	-0.3820	mg/L	0.07240	-72.57	mg/kg	13.754	18.95%
Se 203.985†	1.2	0.04672	mg/L	0.365114	8.875	mg/kg	69.3605	781.50%
Sn 189.927†	4.5	0.5271	mg/L	0.33849	100.1	mg/kg	64.30	64.22%
Sn 235.485†	2906.2	-5.732	mg/L	0.8617	-1089	mg/kg	163.7	15.03%
Sn 283.998†	19.1	0.2111	mg/L	0.01404	40.10	mg/kg	2.667	6.65%
Sr 407.771†	23748.0	0.07303	mg/L	0.000252	13.87	mg/kg	0.048	0.35%
Sr 421.552†	10802.7	0.07375	mg/L	0.000469	14.01	mg/kg	0.089	0.64%
Sr 460.733†	110.2	0.04545	mg/L	0.037022	8.635	mg/kg	7.0331	81.45%
Ti 334.940†	10081.6	0.5118	mg/L	0.00384	97.23	mg/kg	0.729	0.75%
Ti 336.121†	7102.2	0.5086	mg/L	0.00295	96.62	mg/kg	0.561	0.58%
Ti 337.279†	3638.6	0.4987	mg/L	0.00884	94.74	mg/kg	1.680	1.77%
Tl 190.801†	-1.1	-0.2306	mg/L	0.17990	-43.81	mg/kg	34.176	78.02%
Tl 276.787†	210.3	0.8055	mg/L	0.19783	153.0	mg/kg	37.58	24.56%
Tl 351.924†	-8.6	-0.06720	mg/L	0.070946	-12.77	mg/kg	13.478	105.58%
V 290.880†	91.4	0.03385	mg/L	0.001676	6.431	mg/kg	0.3184	4.95%
V 309.310†	1610.8	0.06236	mg/L	0.000230	11.85	mg/kg	0.044	0.37%
V 310.230†	346.3	0.04673	mg/L	0.004477	8.878	mg/kg	0.8505	9.58%
Zn 202.548†	955.8	3.540	mg/L	0.0352	672.6	mg/kg	6.68	0.99%

Zn 206.200†	1109.8	3.648 mg/L	0.0502	693.0 mg/kg	9.54	1.38%
Zn 213.857†	1761.1	3.707 mg/L	0.0500	704.3 mg/kg	9.51	1.35%

Sequence No.: 58 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 8/19/03 2:53:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:07:58 AM,**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	161351.4						3160.11	1.96%
Ag 328.068†	2.8	0.00057	mg/L	0.000902				157.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-11.7	-0.00414	mg/L	0.001552				37.46%
Al 308.215†	-7.0	-0.01163	mg/L	0.002222				19.10%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-0.2	0.00016	mg/L	0.003634				>999.9%
Al 396.153†	-1.9	-0.00262	mg/L	0.004788				182.66%
As 188.979†	0.9	0.1238	mg/L	0.14196				114.67%
As 193.696†	-0.6	-0.1228	mg/L	0.05256				42.81%
As 197.197†	0.1	0.02565	mg/L	0.194411				757.97%
B 208.889†	*1.7*	*0.02939*	*mg/L*	*0.024545*				*86.45%*
B 249.677†	0.5	0.00115	mg/L	0.003408				295.82%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-0.8	-0.00085	mg/L	0.002956				349.36%
Ba 233.527†	-1.8	-0.00091	mg/L	0.002155				235.62%
Ba 455.403†	27.9	0.00025	mg/L	0.000112				44.70%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	66.3	0.00060	mg/L	0.000251				41.70%
Be 234.861†	-1.4	-0.00012	mg/L	0.000240				200.28%
Be 313.042†	4.2	0.00007	mg/L	0.000093				142.86%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-5.5	-0.00016	mg/L	0.000141				89.86%
Ca 315.887†	66.8	0.03634	mg/L	0.011823				32.53%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	30.1	0.01604	mg/L	0.018428				114.91%
Cd 214.440†	*0.9*	*0.00105*	*mg/L*	*0.002244*				*214.35%*
Cd 226.502†	-0.2	-0.00033	mg/L	0.002491				763.40%
Cd 228.802†	2.3	0.00451	mg/L	0.001606				35.62%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-6.9	-0.00632	mg/L	0.002527				39.97%
Ce 413.764†	6.7	0.00568	mg/L	0.006554				115.40%
Ce 418.660†	13.1	0.00847	mg/L	0.004018				47.45%
Co 228.616†	4.0	0.00732	mg/L	0.007312				99.90%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	0.7	0.00108	mg/L	0.001092				101.11%
Co 238.892†	-2.5	-0.00523	mg/L	0.001151				22.01%
Cr 205.560†	0.6	0.00454	mg/L	0.006406				141.17%
Cr 267.716†	5.8	0.00709	mg/L	0.004234				59.71%
Cr 283.563†	4.6	0.00102	mg/L	0.000373				36.48%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-0.7	-0.00263	mg/L	0.001676				63.77%
Cu 324.752†	10.3	0.00171	mg/L	0.000962				56.28%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	14.2	0.00538	mg/L	0.003271				60.82%
Fe 238.204†	171.3	0.1126	mg/L	0.03389				30.11%
Fe 239.562†	95.6	0.1090	mg/L	0.03562				32.68%
Fe 259.939†	319.4	0.1100	mg/L	0.03140				28.55%
Fe 273.955†	49.4	0.1154	mg/L	0.04104				35.55%
QC value greater than the upper limit for Fe 273.955 Recovery = Not calculated								
K 766.490†	-71.9	-0.05376	mg/L	0.035295				65.65%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	572.6	0.1073	mg/L	0.14947				139.33%
Li 670.784†	-181.9	-0.00499	mg/L	0.002607				52.27%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	9.3	0.02962	mg/L	0.004582				15.47%
QC value within limits for Mg 279.077 Recovery = Not calculated								

Mg 280.271†	788.3	0.01664 mg/L	0.005806	34.89%

Mg 285.213†	70.3	0.01757	mg/L	0.005085	28.94%
Mn 257.610†	5.0	0.00042	mg/L	0.000513	121.99%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	8.7	0.00045	mg/L	0.000239	53.35%
Mn 260.568†	10.0	0.00137	mg/L	0.000214	15.58%
Mo 202.031†	-0.5	-0.05456	mg/L	0.054713	100.28%
Mo 203.845†	1.2	0.03986	mg/L	0.040559	101.75%
Mo 204.597†	2.6	0.04505	mg/L	0.004307	9.56%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	-412.9	-0.07090	mg/L	0.065538	92.44%
Na 589.592†	7.7	0.00198	mg/L	0.021281	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.9	0.01112	mg/L	0.010939	98.41%
Ni 231.604†	0.4	0.00149	mg/L	0.003059	205.09%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	0.6	0.00306	mg/L	0.011373	371.67%
Pb 217.000†	1.0	0.04853	mg/L	0.070070	144.40%
Pb 220.353†	-2.6	-0.05945	mg/L	0.015351	25.82%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.9	-0.03967	mg/L	0.059306	149.49%
Sb 217.582†	-0.7	-0.03587	mg/L	0.059941	167.12%
Sb 231.146†	0.4	0.02158	mg/L	0.100986	467.93%
Se 196.026†	-0.9	-0.1245	mg/L	0.07014	56.34%
Se 203.985†	-0.9	-0.1201	mg/L	0.06944	57.84%
Sn 189.927†	0.1	0.01535	mg/L	0.056207	366.18%
Sn 235.485†	1.6	0.00445	mg/L	0.115053	>999.9%
Sn 283.998†	2.7	0.00591	mg/L	0.008679	146.83%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	43.5	0.00014	mg/L	0.000164	118.62%
Sr 421.552†	16.1	0.00011	mg/L	0.000148	129.76%
Sr 460.733†	-41.5	-0.02037	mg/L	0.066730	327.56%
Ti 334.940†	7.5	0.00038	mg/L	0.000239	62.36%
Ti 336.121†	-1.8	-0.00013	mg/L	0.000427	324.49%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	4.0	0.00055	mg/L	0.000718	129.80%
Tl 190.801†	1.5	0.3140	mg/L	0.23459	74.71%
Tl 276.787†	-8.8	-0.09467	mg/L	0.021587	22.80%
Tl 351.924†	-2.0	-0.01280	mg/L	0.065547	512.27%
V 290.880†	-4.2	-0.00147	mg/L	0.001049	71.26%
V 309.310†	-7.1	-0.00121	mg/L	0.000190	15.65%
V 310.230†	-55.5	-0.00758	mg/L	0.006086	80.26%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	3.3	0.01234	mg/L	0.003367	27.28%
Zn 206.200†	6.1	0.01990	mg/L	0.004208	21.15%
Zn 213.857†	8.2	0.01736	mg/L	0.003204	18.46%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

==========

Sequence No.: 59 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 2:57:31 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:08:22 AM,**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160409.3						2432.04	1.52%
Ag 328.068†	1208.7	0.2467	mg/L	0.00241				0.98%
QC value within limits for Ag 328.068 Recovery = 98.67%								
Ag 338.289†	681.3	0.2464	mg/L	0.00296				1.20%
Al 308.215†	612.6	0.9639	mg/L	0.01234				1.28%
QC value within limits for Al 308.215 Recovery = 96.39%								
Al 394.401†	925.1	1.038	mg/L	0.0152				1.47%
Al 396.153†	1875.3	1.029	mg/L	0.0154				1.50%
As 188.979†	13.1	1.881	mg/L	0.0599				3.18%
As 193.696†	10.2	2.026	mg/L	0.2372				11.71%
As 197.197†	12.6	2.218	mg/L	0.3731				16.82%
B 208.889†	55.2	0.9482	mg/L	0.01780				1.88%

B 249.677†	408.3	0.9454 mg/L	0.02171	2.30%
QC value within limits for B 249.677 Recovery = 94.54%				
B 249.772†	918.1	0.9387 mg/L	0.01660	1.77%
Ba 233.527†	1783.8	0.9543 mg/L	0.01013	1.06%
Ba 455.403†	121134.3	1.049 mg/L	0.0069	0.65%
QC value within limits for Ba 455.403 Recovery = 104.90%				
Ba 493.408†	115642.2	1.029 mg/L	0.0059	0.57%
Be 234.861†	11872.8	0.9624 mg/L	0.00947	0.98%
Be 313.042†	62973.4	0.9523 mg/L	0.00816	0.86%
QC value within limits for Be 313.042 Recovery = 95.23%				
Be 313.107†	33315.0	0.9485 mg/L	0.00874	0.92%
Ca 315.887†	1990.7	1.080 mg/L	0.0128	1.18%
Ca 317.933†	1858.7	0.9866 mg/L	0.01300	1.32%
QC value within limits for Ca 317.933 Recovery = 98.66%				
Cd 214.440†	804.2	0.9661 mg/L	0.01498	1.55%
Cd 226.502†	495.7	0.9480 mg/L	0.02018	2.13%
Cd 228.802†	727.3	0.9348 mg/L	0.00746	0.80%
QC value within limits for Cd 228.802 Recovery = 93.48%				
Ce 413.380†	1056.0	0.9624 mg/L	0.08563	8.90%
Ce 413.764†	1180.6	0.9950 mg/L	0.01910	1.92%
Ce 418.660†	1593.0	1.023 mg/L	0.0393	3.84%
Co 228.616†	507.4	0.9219 mg/L	0.01417	1.54%
QC value within limits for Co 228.616 Recovery = 92.19%				
Co 230.786†	558.8	0.9400 mg/L	0.00567	0.60%
Co 238.892†	462.4	0.9196 mg/L	0.00611	0.66%
Cr 205.560†	117.8	0.9338 mg/L	0.00638	0.68%
Cr 267.716†	781.2	0.9518 mg/L	0.01047	1.10%
Cr 283.563†	4201.7	0.9719 mg/L	0.01583	1.63%
QC value within limits for Cr 283.563 Recovery = 97.19%				
Cu 224.700†	247.1	0.9700 mg/L	0.01845	1.90%
Cu 324.752†	5900.2	0.9948 mg/L	0.01100	1.11%
QC value within limits for Cu 324.752 Recovery = 99.48%				
Cu 327.393†	2572.7	0.9781 mg/L	0.01099	1.12%
Fe 238.204†	1679.1	1.112 mg/L	0.0065	0.59%
Fe 239.562†	954.6	1.097 mg/L	0.0122	1.12%
Fe 259.939†	3183.7	1.104 mg/L	0.0108	0.97%
QC value greater than the upper limit for Fe 259.939 Recovery = 110.39%				
Fe 273.955†	519.3	1.215 mg/L	0.0031	0.25%
K 766.490†	6374.8	4.766 mg/L	0.0270	0.57%
QC value within limits for K 766.490 Recovery = 95.32%				
Li 610.362†	6801.6	1.246 mg/L	0.1193	9.57%
Li 670.784†	37858.1	1.038 mg/L	0.0147	1.41%
QC value less than the lower limit for Li 670.784 Recovery = 20.75%				
Mg 279.077†	307.9	0.9823 mg/L	0.01115	1.14%
Mg 280.271†	46327.3	0.9772 mg/L	0.00859	0.88%
QC value within limits for Mg 280.271 Recovery = 97.72%				
Mg 285.213†	3854.9	0.9626 mg/L	0.01287	1.34%
Mn 257.610†	11605.2	0.9896 mg/L	0.00644	0.65%
QC value within limits for Mn 257.610 Recovery = 98.96%				
Mn 259.372†	10713.4	0.9867 mg/L	0.01173	1.19%
Mn 260.568†	7233.4	0.9897 mg/L	0.00978	0.99%
Mo 202.031†	-0.1	-0.01700 mg/L	0.168482	991.14%
Mo 203.845†	2.2	0.07374 mg/L	0.060279	81.75%
Mo 204.597†	0.3	0.00401 mg/L	0.008582	214.01%
Na 588.995†	5792.3	0.9946 mg/L	0.07704	7.75%
Na 589.592†	4210.2	1.079 mg/L	0.0277	2.57%
Ni 221.648†	74.2	0.9401 mg/L	0.02543	2.70%
Ni 231.604†	277.9	0.9627 mg/L	0.01634	1.70%
QC value within limits for Ni 231.604 Recovery = 96.27%				
Ni 232.003†	174.3	0.9695 mg/L	0.02370	2.44%
Pb 217.000†	39.0	1.847 mg/L	0.1863	10.09%
Pb 220.353†	81.1	1.879 mg/L	0.0116	0.62%
QC value within limits for Pb 220.353 Recovery = 93.96%				
Sb 206.836†	-0.3	-0.02971 mg/L	0.076615	257.88%
Sb 217.582†	-1.2	-0.06853 mg/L	0.110410	161.10%
Sb 231.146†	0.8	-0.08093 mg/L	0.142737	176.38%
Se 196.026†	3.2	0.4437 mg/L	0.11126	25.08%
Se 203.985†	8.4	1.009 mg/L	0.2901	28.74%
Sn 189.927†	0.2	0.01979 mg/L	0.182369	921.54%
Sn 235.485†	15.4	-0.00575 mg/L	0.056155	976.95%
Sn 283.998†	140.7	-0.00111 mg/L	0.005634	507.44%

Sr 407.771†	321657.8	1.024	mg/L	0.0058	0.56%
Sr 421.552†	145511.8	1.035	mg/L	0.0056	0.54%
Sr 460.733†	2140.9	1.049	mg/L	0.0331	3.16%
Ti 334.940†	17.0	0.00045	mg/L	0.000469	104.35%
Ti 336.121†	2.1	0.00007	mg/L	0.000692	998.49%
Ti 337.279†	10.4	0.00154	mg/L	0.000236	15.31%
Tl 190.801†	22.8	4.589	mg/L	0.5468	11.91%
Tl 276.787†	414.7	4.384	mg/L	0.0959	2.19%
Tl 351.924†	752.8	4.886	mg/L	0.1045	2.14%
V 290.880†	2680.5	0.9456	mg/L	0.01467	1.55%
V 309.310†	5915.5	0.9363	mg/L	0.00395	0.42%
V 310.230†	6959.2	0.9514	mg/L	0.02597	2.73%
QC value within limits for V 310.230 Recovery = 95.14%					
Zn 202.548†	267.4	0.9870	mg/L	0.01707	1.73%
Zn 206.200†	304.8	1.002	mg/L	0.0031	0.31%
Zn 213.857†	475.2	1.003	mg/L	0.0131	1.30%
QC value within limits for Zn 213.857 Recovery = 100.28%					
QC Failed. Continue with analysis.					

==========

Sequence No.: 60 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 3:01:20 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:08:29 AM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159650.7						1031.61	0.65%
Ag 328.068†	-21.7	-0.00167	mg/L	0.001758				104.96%
Ag 338.289†	-3.5	-0.00063	mg/L	0.003374				537.75%
Al 308.215†	20.5	0.02184	mg/L	0.008854				40.53%
Al 394.401†	15.8	0.01898	mg/L	0.008311				43.79%
Al 396.153†	104.5	0.02369	mg/L	0.003150				13.30%
As 188.979†	1.4	0.2016	mg/L	0.27409				135.93%
As 193.696†	0.2	0.04509	mg/L	0.235664				522.62%
As 197.197†	0.2	0.03786	mg/L	0.248558				656.52%
B 208.889†	0.8	0.01359	mg/L	0.019821				145.87%
B 249.677†	0.9	0.00224	mg/L	0.005351				238.52%
B 249.772†	3.7	0.00401	mg/L	0.001627				40.61%
Ba 233.527†	-28.9	-0.01480	mg/L	0.003420				23.12%
Ba 455.403†	176.5	0.00144	mg/L	0.000147				10.22%
Ba 493.408†	230.6	0.00196	mg/L	0.000666				33.92%
Be 234.861†	5.6	0.00053	mg/L	0.000433				81.16%
Be 313.042†	22.5	0.00033	mg/L	0.000087				26.44%
Be 313.107†	4.4	0.00011	mg/L	0.000125				117.51%
Ca 315.887†	64.7	0.03545	mg/L	0.001442				4.07%
Ca 317.933†	15.3	0.00888	mg/L	0.004781				53.85%
Cd 214.440†	2.3	0.00283	mg/L	0.002128				75.08%
Cd 226.502†	-0.7	-0.00143	mg/L	0.004278				300.14%
Cd 228.802†	-1.3	-0.00240	mg/L	0.001805				75.29%
Ce 413.380†	-9.4	-0.00878	mg/L	0.004249				48.38%
Ce 413.764†	13.3	0.01079	mg/L	0.002505				23.22%
Ce 418.660†	36.7	0.02330	mg/L	0.004223				18.12%
Co 228.616†	2.7	0.00386	mg/L	0.003074				79.69%
Co 230.786†	-0.4	-0.00116	mg/L	0.004828				416.19%
Co 238.892†	-3.7	-0.00723	mg/L	0.004967				68.73%
Cr 205.560†	0.5	0.00340	mg/L	0.005366				157.77%
Cr 267.716†	6.7	0.00817	mg/L	0.004639				56.81%
Cr 283.563†	-0.9	-0.00044	mg/L	0.000148				34.11%
Cu 224.700†	-0.1	-0.00394	mg/L	0.003495				88.76%
Cu 324.752†	27.0	0.00216	mg/L	0.000538				24.93%
Cu 327.393†	17.0	0.00418	mg/L	0.001100				26.33%
Fe 238.204†	170.5	0.1143	mg/L	0.00209				1.83%
Fe 239.562†	94.8	0.1104	mg/L	0.00156				1.41%
Fe 259.939†	307.0	0.1080	mg/L	0.00092				0.85%
Fe 273.955†	50.1	0.1197	mg/L	0.00144				1.20%
K 766.490†	-39.3	-0.02938	mg/L	0.063250				215.31%
Li 610.362†	1133.2	0.2093	mg/L	0.07436				35.54%

Li 670.784†	108.7	0.00315	mg/L	0.001075	34.16%
Mg 279.077†	0.6	0.00251	mg/L	0.006013	239.97%
Mg 280.271†	321.7	0.00683	mg/L	0.000447	6.54%
Mg 285.213†	33.0	0.00832	mg/L	0.000790	9.50%
Mn 257.610†	30.8	0.00226	mg/L	0.000285	12.62%
Mn 259.372†	84.1	0.00252	mg/L	0.000213	8.43%
Mn 260.568†	17.7	0.00245	mg/L	0.000229	9.35%
Mo 202.031†	7.4	0.8704	mg/L	0.07822	8.99%
Mo 203.845†	30.2	1.012	mg/L	0.0631	6.24%
Mo 204.597†	55.5	0.9647	mg/L	0.01103	1.14%
QC value within limits for Mo 204.597 Recovery = 96.47%					
Na 588.995†	-232.4	-0.03991	mg/L	0.022892	57.35%
Na 589.592†	248.6	0.06369	mg/L	0.033283	52.25%
Ni 221.648†	-1.2	-0.01452	mg/L	0.016165	111.34%
Ni 231.604†	-0.2	-0.00100	mg/L	0.014407	>999.9%
Ni 232.003†	2.2	0.00683	mg/L	0.005668	82.97%
Pb 217.000†	1.0	0.04962	mg/L	0.018944	38.18%
Pb 220.353†	-1.1	-0.02279	mg/L	0.026370	115.70%
Sb 206.836†	43.7	1.975	mg/L	0.0501	2.54%
QC value within limits for Sb 206.836 Recovery = 98.75%					
Sb 217.582†	36.3	1.999	mg/L	0.0802	4.01%
QC value within limits for Sb 217.582 Recovery = 99.94%					
Sb 231.146†	36.6	1.831	mg/L	0.0576	3.15%
QC value within limits for Sb 231.146 Recovery = 91.56%					
Se 196.026†	-2.2	-0.3246	mg/L	0.30371	93.58%
Se 203.985†	0.2	-0.04308	mg/L	0.099255	230.42%
Sn 189.927†	36.0	4.381	mg/L	0.2115	4.83%
Sn 235.485†	184.8	4.793	mg/L	0.0665	1.39%
Sn 283.998†	772.3	2.256	mg/L	0.0184	0.81%
QC value less than the lower limit for Sn 283.998 Recovery = 45.12%					
Sr 407.771†	146.2	0.00035	mg/L	0.000164	47.50%
Sr 421.552†	70.6	0.00039	mg/L	0.000198	51.34%
Sr 460.733†	-40.2	-0.01907	mg/L	0.073968	387.90%
Ti 334.940†	19495.4	0.9831	mg/L	0.00452	0.46%
Ti 336.121†	13609.5	0.9804	mg/L	0.00252	0.26%
QC value within limits for Ti 336.121 Recovery = 98.04%					
Ti 337.279†	7032.6	0.9659	mg/L	0.00979	1.01%
Tl 190.801†	1.0	0.2079	mg/L	0.26760	128.70%
Tl 276.787†	2.1	0.02469	mg/L	0.031810	128.85%
Tl 351.924†	5.4	0.03202	mg/L	0.036348	113.51%
V 290.880†	-0.1	-0.00008	mg/L	0.001504	>999.9%
V 309.310†	-8.1	-0.00118	mg/L	0.001071	90.69%
V 310.230†	-40.7	-0.00551	mg/L	0.001277	23.17%
Zn 202.548†	7.7	0.02919	mg/L	0.007795	26.70%
Zn 206.200†	9.8	0.03308	mg/L	0.002635	7.97%
Zn 213.857†	14.5	0.03134	mg/L	0.003125	9.97%

QC Failed. Continue with analysis.

==========

Sequence No.: 61 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 3:05:06 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 9:08:35 AM,**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	158104.3						2667.02	1.69%
Ag 328.068†	0.4	0.00111	mg/L	0.001286				115.38%
Ag 338.289†	-16.6	0.00012	mg/L	0.001166				945.25%
Al 308.215†	59198.4	95.15	mg/L	0.538				0.57%
QC value within limits for Al 308.215 Recovery = 95.15%								
Al 394.401†	82950.4	98.95	mg/L	0.299				0.30%
Al 396.153†	182607.2	99.48	mg/L	0.359				0.36%
As 188.979†	0.7	0.03700	mg/L	0.032722				88.45%
As 193.696†	-0.1	-0.00025	mg/L	0.180240				>999.9%
As 197.197†	-3.1	-0.3262	mg/L	0.39137				119.98%
B 208.889†	1.0	0.01123	mg/L	0.016749				149.15%
B 249.677†	-2.5	-0.00356	mg/L	0.003326				93.30%

Reprocessing Begun
Logged In Analyst: KSWAN Technique: ICP Continuous

Results Data Set (original): 0305007 081903 IH
Results Library (original): D:\KSWAN\Results\Results.mdb
Results Data Set (reprocessed): 0305007 081903 IHToPrit33
Results Library (reprocessed): D:\KSWAN\Results\Results.mdb

Method Loaded
Method Name: SedSpring03 Method Last Saved: 7/10/03 3:09:06 PM
IEC File: 071003sed.iec MSF File:
Method Description: method

Sequence No.: 1 Autosampler Location: 9
Sample ID: Calib Blank 1 Date Collected: 8/19/03 10:02:03 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Reprocessed on 8/20/03 1:53:19 PM,

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	165016.9	1469.10	0.89%		
Ag 328.068†	-65.0	3.71	5.71%	[0.00]	mg/L
Ag 338.289†	-10.4	2.00	19.28%	[0.00]	mg/L
Al 308.215†	-45.9	24.56	53.54%	[0.00]	mg/L
Al 394.401†	33.3	6.37	19.10%	[0.00]	mg/L
Al 396.153†	97.9	8.45	8.63%	[0.00]	mg/L
As 188.979†	-0.2	0.48	202.30%	[0.00]	mg/L
As 193.696†	0.1	0.85	812.82%	[0.00]	mg/L
As 197.197†	0.6	2.15	368.15%	[0.00]	mg/L
B 208.889†	12.3	1.81	14.70%	[0.00]	mg/L
B 249.677†	3.2	3.27	101.83%	[0.00]	mg/L
B 249.772†	15.3	1.28	8.35%	[0.00]	mg/L
Ba 233.527†	-2.3	2.26	97.72%	[0.00]	mg/L
Ba 455.403†	162.3	6.28	3.87%	[0.00]	mg/L
Ba 493.408†	-408.8	55.06	13.47%	[0.00]	mg/L
Be 234.861†	-22.6	1.89	8.35%	[0.00]	mg/L
Be 313.042†	12.3	7.51	61.21%	[0.00]	mg/L
Be 313.107†	-3.2	2.46	76.23%	[0.00]	mg/L
Ca 315.887†	52.4	6.65	12.69%	[0.00]	mg/L
Ca 317.933†	422.3	5.31	1.26%	[0.00]	mg/L
Cd 214.440†	-14.4	0.45	3.13%	[0.00]	mg/L
Cd 226.502†	0.5	2.04	376.26%	[0.00]	mg/L
Cd 228.802†	-24.8	2.49	10.02%	[0.00]	mg/L
Ce 413.380†	-38.3	4.78	12.48%	[0.00]	mg/L
Ce 413.764†	179.1	7.60	4.24%	[0.00]	mg/L
Ce 418.660†	253.1	10.52	4.16%	[0.00]	mg/L
Co 228.616†	-14.4	1.65	11.48%	[0.00]	mg/L
Co 230.786†	14.8	1.43	9.69%	[0.00]	mg/L
Co 238.892†	12.8	0.92	7.22%	[0.00]	mg/L
Cr 205.560†	0.9	0.77	88.62%	[0.00]	mg/L
Cr 267.716†	6.4	6.25	97.82%	[0.00]	mg/L
Cr 283.563†	44.7	2.22	4.97%	[0.00]	mg/L
Cu 224.700†	9.3	1.94	20.85%	[0.00]	mg/L
Cu 324.752†	51.2	10.27	20.06%	[0.00]	mg/L
Cu 327.393†	-24.0	5.60	23.34%	[0.00]	mg/L
Fe 238.204†	50.2	4.47	8.89%	[0.00]	mg/L
Fe 239.562†	10.9	0.16	1.43%	[0.00]	mg/L
Fe 259.939†	122.3	4.75	3.89%	[0.00]	mg/L
Fe 273.955†	9.5	4.14	43.49%	[0.00]	mg/L
K 766.490†	548.0	77.26	14.10%	[0.00]	mg/L
Li 610.362†	26034.3	578.07	2.22%	[0.00]	mg/L
Li 670.784†	797.2	59.48	7.46%	[0.00]	mg/L
Mg 279.077†	14.9	3.35	22.48%	[0.00]	mg/L
Mg 280.271†	224.9	6.77	3.01%	[0.00]	mg/L

printer ran out + then malfunctioned K

Mg 285.213†	44.4	4.34	9.79%	[0.00]	mg/L
Mn 257.610†	13.6	7.38	54.10%	[0.00]	mg/L
Mn 259.372†	0.0	2.65	>999.9%	[0.00]	mg/L
Mn 260.568†	14.4	3.21	22.30%	[0.00]	mg/L
Mo 202.031†	-1.0	0.35	36.64%	[0.00]	mg/L
Mo 203.845†	5.8	2.16	37.23%	[0.00]	mg/L
Mo 204.597†	1.0	2.28	239.26%	[0.00]	mg/L
Na 588.995†	-9328.2	339.82	3.64%	[0.00]	mg/L
Na 589.592†	915.9	58.90	6.43%	[0.00]	mg/L
Ni 221.648†	2.2	0.61	27.86%	[0.00]	mg/L
Ni 231.604†	4.5	1.20	26.82%	[0.00]	mg/L
Ni 232.003†	18.2	3.15	17.30%	[0.00]	mg/L
Pb 217.000†	9.0	1.77	19.80%	[0.00]	mg/L
Pb 220.353†	-7.5	1.61	21.60%	[0.00]	mg/L
Sb 206.836†	3.2	1.56	48.66%	[0.00]	mg/L
Sb 217.582†	3.9	1.23	31.79%	[0.00]	mg/L
Sb 231.146†	-0.6	2.24	373.45%	[0.00]	mg/L
Se 196.026†	5.3	0.94	17.76%	[0.00]	mg/L
Se 203.985†	6.4	1.95	30.47%	[0.00]	mg/L
Sn 189.927†	-0.7	0.36	55.00%	[0.00]	mg/L
Sn 235.485†	11.9	1.19	9.96%	[0.00]	mg/L
Sn 283.998†	9.2	5.33	57.63%	[0.00]	mg/L
Sr 407.771†	766.2	9.47	1.24%	[0.00]	mg/L
Sr 421.552†	111.0	14.47	13.04%	[0.00]	mg/L
Sr 460.733†	-283.6	72.37	25.51%	[0.00]	mg/L
Ti 334.940†	55.9	10.07	18.02%	[0.00]	mg/L
Ti 336.121†	47.8	4.67	9.78%	[0.00]	mg/L
Ti 337.279†	-43.5	1.89	4.33%	[0.00]	mg/L
Tl 190.801†	1.6	0.83	51.92%	[0.00]	mg/L
Tl 276.787†	74.8	5.72	7.64%	[0.00]	mg/L
Tl 351.924†	29.1	3.56	12.25%	[0.00]	mg/L
V 290.880†	110.3	9.70	8.80%	[0.00]	mg/L
V 309.310†	-113.1	9.25	8.18%	[0.00]	mg/L
V 310.230†	1478.3	28.96	1.96%	[0.00]	mg/L
Zn 202.548†	2.9	0.89	30.51%	[0.00]	mg/L
Zn 206.200†	-1.7	0.65	39.48%	[0.00]	mg/L
Zn 213.857†	0.1	1.48	995.60%	[0.00]	mg/L

Sequence No.: 2 **Autosampler Location: 10**
Sample ID: Cal 1 **Date Collected: 8/19/03 10:06:04 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:53:54 PM,**

Mean Data: Cal 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	173851.7	1267.06	0.73%		
Ag 328.068†	2453.1	31.22	1.27%	[0.5]	mg/L
Ag 338.289†	1389.5	11.13	0.80%	[0.5]	mg/L
As 188.979†	69.1	1.84	2.66%	[10]	mg/L
As 193.696†	50.1	2.09	4.17%	[10]	mg/L
As 197.197†	56.5	1.54	2.72%	[10]	mg/L
B 208.889†	58.2	2.03	3.49%	[1]	mg/L
B 249.677†	431.0	3.32	0.77%	[1]	mg/L
B 249.772†	978.8	13.58	1.39%	[1]	mg/L
Ca 317.933†	18795.4	264.94	1.41%	[10]	mg/L
Cd 214.440†	1665.2	21.56	1.29%	[2]	mg/L
Cd 226.502†	1045.2	11.39	1.09%	[2]	mg/L
Cd 228.802†	1516.8	15.95	1.05%	[2]	mg/L
Sb 206.836†	110.5	2.91	2.63%	[5]	mg/L
Sb 217.582†	90.8	0.95	1.05%	[5]	mg/L
Sb 231.146†	99.9	2.31	2.31%	[5]	mg/L
Se 196.026†	35.4	0.74	2.09%	[5]	mg/L
Se 203.985†	36.6	3.07	8.37%	[5]	mg/L
Sr 407.771†	314037.4	1048.63	0.33%	[1]	mg/L
Sr 421.552†	140596.3	442.90	0.32%	[1]	mg/L
Sr 460.733†	2032.4	37.49	1.84%	[1]	mg/L

Sequence No.: 3
Sample ID: Cal 2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 8/19/03 10:09:51 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 1:53:58 PM,

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	171112.6	2687.78	1.57%		
Li 610.362†	26723.2	680.37	2.55%	[5]	mg/L
Li 670.784†	182501.2	812.42	0.45%	[5]	mg/L
Mo 202.031†	85.4	1.85	2.17%	[10]	mg/L
Mo 203.845†	297.8	5.14	1.73%	[10]	mg/L
Mo 204.597†	575.5	11.64	2.02%	[10]	mg/L
Na 588.995†	58238.5	318.70	0.55%	[10]	mg/L
Ti 334.940†	198300.5	131.85	0.07%	[10]	mg/L
Ti 336.121†	138819.4	230.19	0.17%	[10]	mg/L
Ti 337.279†	72809.9	173.79	0.24%	[10]	mg/L

Sequence No.: 4
Sample ID: Cal 3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 12
Date Collected: 8/19/03 10:13:32 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 1:53:59 PM,

Mean Data: Cal 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	163376.5	1173.29	0.72%		
Ce 413.380†	2192.3	18.45	0.84%	[2]	mg/L
Ce 413.764†	2369.6	13.94	0.59%	[2]	mg/L
Ce 418.660†	3109.7	25.03	0.81%	[2]	mg/L
Co 228.616†	1100.0	1.88	0.17%	[2]	mg/L
Co 230.786†	1186.9	8.52	0.72%	[2]	mg/L
Co 238.892†	1002.4	14.45	1.44%	[2]	mg/L
V 290.880†	5671.1	30.17	0.53%	[2]	mg/L
V 309.310†	12582.7	63.90	0.51%	[2]	mg/L
V 310.230†	14613.1	123.39	0.84%	[2]	mg/L

Sequence No.: 5
Sample ID: Cal 4A+B
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 8/19/03 10:17:13 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 1:53:59 PM,

Mean Data: Cal 4A+B

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	168587.2	1476.25	0.88%		
Al 394.401†	8386.6	46.98	0.56%	[10]	mg/L
Al 396.153†	18353.2	106.06	0.58%	[10]	mg/L
Cr 205.560†	630.4	5.17	0.82%	[5]	mg/L
Cr 267.716†	4096.7	46.39	1.13%	[5]	mg/L
Cr 283.563†	21575.5	19.39	0.09%	[5]	mg/L
Sn 189.927†	32.9	1.17	3.56%	[4]	mg/L
Sn 235.485†	154.1	2.17	1.41%	[4]	mg/L
Sn 283.998†	1370.7	4.64	0.34%	[4]	mg/L

Sequence No.: 6
Sample ID: Cal 4C
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 14
Date Collected: 8/19/03 10:20:56 AM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 1:54:00 PM,

Mean Data: Cal 4C

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	168605.6	2788.57	1.65%		
Ba 233.527†	9339.6	246.11	2.64%	[5]	mg/L
Ba 455.403†	577051.7	4890.78	0.85%	[5]	mg/L
Ba 493.408†	561454.1	4874.39	0.87%	[5]	mg/L
Cu 224.700†	1267.5	30.13	2.38%	[5]	mg/L
Cu 324.752†	29606.6	258.47	0.87%	[5]	mg/L
Cu 327.393†	13127.0	380.60	2.90%	[5]	mg/L
Mn 257.610†	117252.1	970.57	0.83%	[10]	mg/L
Mn 259.372†	108413.0	1153.47	1.06%	[10]	mg/L
Mn 260.568†	73021.4	696.70	0.95%	[10]	mg/L
Zn 202.548†	2693.0	72.42	2.69%	[10]	mg/L
Zn 206.200†	3047.4	72.22	2.37%	[10]	mg/L
Zn 213.857†	4724.9	112.73	2.39%	[10]	mg/L

==========

Sequence No.: 7 **Autosampler Location: 15**
Sample ID: Cal 5 **Date Collected: 8/19/03 10:24:39 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:02 PM,**

Mean Data: Cal 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	167123.1	3666.52	2.19%		
Be 234.861†	12335.3	193.23	1.57%	[1]	mg/L
Be 313.042†	66087.8	1204.00	1.82%	[1]	mg/L
Be 313.107†	35124.0	690.36	1.97%	[1]	mg/L
Fe 238.204†	15205.5	303.24	1.99%	[10]	mg/L
Fe 239.562†	8761.7	135.20	1.54%	[10]	mg/L
Fe 259.939†	29021.4	504.34	1.74%	[10]	mg/L
Mg 280.271†	473692.7	1283.41	0.27%	[10]	mg/L
Mg 285.213†	40024.4	778.92	1.95%	[10]	mg/L
Ni 221.648†	158.1	3.70	2.34%	[2]	mg/L
Ni 231.604†	577.1	9.97	1.73%	[2]	mg/L
Ni 232.003†	344.1	5.66	1.64%	[2]	mg/L
Pb 217.000†	210.3	7.68	3.65%	[10]	mg/L
Pb 220.353†	435.0	11.40	2.62%	[10]	mg/L
Tl 190.801†	24.7	1.01	4.08%	[5]	mg/L
Tl 276.787†	470.5	10.69	2.27%	[5]	mg/L
Tl 351.924†	768.6	20.13	2.62%	[5]	mg/L

==========

Sequence No.: 8 **Autosampler Location: 16**
Sample ID: Hi Cal **Date Collected: 8/19/03 10:28:26 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:03 PM,**

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	159107.1	1761.37	1.11%		
Al 308.215†	311036.9	1203.43	0.39%	[500]	mg/L
Ca 315.887†	918807.1	3379.68	0.37%	[500]	mg/L
Fe 273.955†	213867.2	668.28	0.31%	[500]	mg/L
K 766.490†	668787.5	351.64	0.05%	[500]	mg/L
Mg 279.077†	156476.0	918.27	0.59%	[500]	mg/L
Na 589.592†	780449.1	1817.38	0.23%	[200]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope

Ag 328.068	1	Lin, Calc Int	0.0	4906	0.00000	1.000000
Ag 338.289	1	Lin, Calc Int	0.0	2779	0.00000	1.000000
Al 308.215	1	Lin, Calc Int	0.0	622.1	0.00000	1.000000
Al 394.401	1	Lin, Calc Int	0.0	838.7	0.00000	1.000000
Al 396.153	1	Lin, Calc Int	0.0	1835	0.00000	1.000000
As 188.979	1	Lin, Calc Int	0.0	6.912	0.00000	1.000000
As 193.696	1	Lin, Calc Int	0.0	5.010	0.00000	1.000000
As 197.197	1	Lin, Calc Int	-0.0	5.655	0.00000	1.000000
B 208.889	1	Lin, Calc Int	0.0	58.17	0.00000	1.000000
B 249.677	1	Lin, Calc Int	0.0	431.0	0.00000	1.000000
B 249.772	1	Lin, Calc Int	0.0	978.8	0.00000	1.000000
Ba 233.527	1	Lin, Calc Int	0.0	1868	0.00000	1.000000
Ba 455.403	1	Lin, Calc Int	0.0	115400	0.00000	1.000000
Ba 493.408	1	Lin, Calc Int	0.0	112300	0.00000	1.000000
Be 234.861	1	Lin, Calc Int	0.0	12340	0.00000	1.000000
Be 313.042	1	Lin, Calc Int	0.0	66090	0.00000	1.000000
Be 313.107	1	Lin, Calc Int	0.0	35120	0.00000	1.000000
Ca 315.887	1	Lin, Calc Int	0.0	1838	0.00000	1.000000
Ca 317.933	1	Lin, Calc Int	0.0	1880	0.00000	1.000000
Cd 214.440	1	Lin, Calc Int	0.0	832.6	0.00000	1.000000
Cd 226.502	1	Lin, Calc Int	0.0	522.6	0.00000	1.000000
Cd 228.802	1	Lin, Calc Int	0.0	758.4	0.00000	1.000000
Ce 413.380	1	Lin, Calc Int	0.0	1096	0.00000	1.000000
Ce 413.764	1	Lin, Calc Int	0.0	1185	0.00000	1.000000
Ce 418.660	1	Lin, Calc Int	0.0	1555	0.00000	1.000000
Co 228.616	1	Lin, Calc Int	0.0	550.0	0.00000	1.000000
Co 230.786	1	Lin, Calc Int	0.0	593.5	0.00000	1.000000
Co 238.892	1	Lin, Calc Int	0.0	501.2	0.00000	1.000000
Cr 205.560	1	Lin, Calc Int	0.0	126.1	0.00000	1.000000
Cr 267.716	1	Lin, Calc Int	0.0	819.3	0.00000	1.000000
Cr 283.563	1	Lin, Calc Int	0.0	4315	0.00000	1.000000
Cu 224.700	1	Lin, Calc Int	0.0	253.5	0.00000	1.000000
Cu 324.752	1	Lin, Calc Int	-0.0	5921	0.00000	1.000000
Cu 327.393	1	Lin, Calc Int	0.0	2625	0.00000	1.000000
Fe 238.204	1	Lin, Calc Int	0.0	1521	0.00000	1.000000
Fe 239.562	1	Lin, Calc Int	0.0	876.2	0.00000	1.000000
Fe 259.939	1	Lin, Calc Int	0.0	2902	0.00000	1.000000
Fe 273.955	1	Lin, Calc Int	0.0	427.7	0.00000	1.000000
K 766.490	1	Lin, Calc Int	0.0	1338	0.00000	1.000000
Li 610.362	1	Lin, Calc Int	0.0	5345	0.00000	1.000000
Li 670.784	1	Lin, Calc Int	-0.0	36500	0.00000	1.000000
Mg 279.077	1	Lin, Calc Int	0.0	313.0	0.00000	1.000000
Mg 280.271	1	Lin, Calc Int	0.0	47370	0.00000	1.000000
Mg 285.213	1	Lin, Calc Int	0.0	4002	0.00000	1.000000
Mn 257.610	1	Lin, Calc Int	0.0	11730	0.00000	1.000000
Mn 259.372	1	Lin, Calc Int	-0.0	10840	0.00000	1.000000
Mn 260.568	1	Lin, Calc Int	0.0	7302	0.00000	1.000000
Mo 202.031	1	Lin, Calc Int	0.0	8.537	0.00000	1.000000
Mo 203.845	1	Lin, Calc Int	0.0	29.78	0.00000	1.000000
Mo 204.597	1	Lin, Calc Int	0.0	57.55	0.00000	1.000000
Na 588.995	1	Lin, Calc Int	0.0	5824	0.00000	1.000000
Na 589.592	1	Lin, Calc Int	-0.0	3902	0.00000	1.000000
Ni 221.648	1	Lin, Calc Int	0.0	79.07	0.00000	1.000000
Ni 231.604	1	Lin, Calc Int	0.0	288.6	0.00000	1.000000
Ni 232.003	1	Lin, Calc Int	0.0	172.1	0.00000	1.000000
Pb 217.000	1	Lin, Calc Int	0.0	21.03	0.00000	1.000000
Pb 220.353	1	Lin, Calc Int	0.0	43.50	0.00000	1.000000
Sb 206.836	1	Lin, Calc Int	0.0	22.10	0.00000	1.000000
Sb 217.582	1	Lin, Calc Int	0.0	18.17	0.00000	1.000000
Sb 231.146	1	Lin, Calc Int	0.0	19.97	0.00000	1.000000
Se 196.026	1	Lin, Calc Int	0.0	7.073	0.00000	1.000000
Se 203.985	1	Lin, Calc Int	0.0	7.320	0.00000	1.000000
Sn 189.927	1	Lin, Calc Int	0.0	8.218	0.00000	1.000000
Sn 235.485	1	Lin, Calc Int	0.0	38.52	0.00000	1.000000
Sn 283.998	1	Lin, Calc Int	0.0	342.7	0.00000	1.000000
Sr 407.771	1	Lin, Calc Int	0.0	314000	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	140600	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	2032	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	0.0	19830	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	0.0	13880	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	7281	0.00000	1.000000

Tl 190.801	1	Lin, Calc Int	0.0	4.941	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	94.11	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	0.0	153.7	0.00000	1.000000
V 290.880	1	Lin, Calc Int	0.0	2836	0.00000	1.000000
V 309.310	1	Lin, Calc Int	0.0	6291	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	7307	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	0.0	269.3	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	304.7	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	472.5	0.00000	1.000000

Sequence No.: 9
Sample ID: 0305007-33
Analyst:
Sample Wt: 0.5264 g
Dilution: 1X

Autosampler Location: 41
Date Collected: 8/19/03 2:49:57 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:54:09 PM,

Mean Data: 0305007-33

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157882.5						2119.45	1.34%
Ag 328.068†	-5.0	0.00160	mg/L	0.001462	0.3046	mg/kg	0.27781	91.20%
Ag 338.289†	-45.9	-0.00205	mg/L	0.002650	-0.3893	mg/kg	0.50341	129.31%
Al 308.215†	4370.6	7.015	mg/L	0.0975	1333	mg/kg	18.5	1.39%
Al 394.401†	6111.3	7.343	mg/L	0.0485	1395	mg/kg	9.2	0.66%
Al 396.153†	13779.9	7.491	mg/L	0.0480	1423	mg/kg	9.1	0.64%
As 188.979†	2.7	0.3176	mg/L	0.09856	60.33	mg/kg	18.723	31.04%
As 193.696†	1.4	0.3229	mg/L	0.47680	61.33	mg/kg	90.578	147.68%
As 197.197†	-3.0	-0.2223	mg/L	0.17449	-42.23	mg/kg	33.147	78.49%
B 208.889†	5.5	0.06918	mg/L	0.034529	13.14	mg/kg	6.559	49.91%
B 249.677†	10.7	0.03083	mg/L	0.001669	5.857	mg/kg	0.3170	5.41%
B 249.772†	135.2	0.01608	mg/L	0.003043	3.055	mg/kg	0.5781	18.92%
Ba 233.527†	384.4	0.1859	mg/L	0.00430	35.32	mg/kg	0.818	2.31%
Ba 455.403†	25103.7	0.2171	mg/L	0.00065	41.25	mg/kg	0.124	0.30%
Ba 493.408†	24157.5	0.2131	mg/L	0.00145	40.48	mg/kg	0.275	0.68%
Be 234.861†	225.6	0.00079	mg/L	0.000518	0.1491	mg/kg	0.09839	65.97%
Be 313.042†	77.8	0.00097	mg/L	0.000029	0.1834	mg/kg	0.00558	3.04%
Be 313.107†	34.0	0.00095	mg/L	0.000030	0.1813	mg/kg	0.00578	3.19%
Ca 315.887†	221287.9	120.4	mg/L	0.30	22880	mg/kg	57.1	0.25%
Ca 317.933†	212018.2	112.8	mg/L	0.12	21430	mg/kg	23.2	0.11%
Cd 214.440†	8.1	0.00683	mg/L	0.003927	1.297	mg/kg	0.7460	57.50%
Cd 226.502†	9.6	0.00541	mg/L	0.004515	1.027	mg/kg	0.8578	83.50%
Cd 228.802†	2.9	0.00378	mg/L	0.005288	0.7183	mg/kg	1.00458	139.86%
Ce 413.380†	57.8	0.00886	mg/L	0.019424	1.684	mg/kg	3.6900	219.12%
Ce 413.764†	84.6	0.05858	mg/L	0.001070	11.13	mg/kg	0.203	1.83%
Ce 418.660†	93.6	0.05295	mg/L	0.011318	10.06	mg/kg	2.150	21.37%
Co 228.616†	17.1	0.02817	mg/L	0.006400	5.351	mg/kg	1.2158	22.72%
Co 230.786†	16.6	0.01992	mg/L	0.002479	3.785	mg/kg	0.4709	12.44%
Co 238.892†	188.8	0.00152	mg/L	0.018496	0.2896	mg/kg	3.51366	>999.9%
Cr 205.560†	17.7	0.1415	mg/L	0.00896	26.88	mg/kg	1.702	6.33%
Cr 267.716†	118.7	0.1501	mg/L	0.00557	28.52	mg/kg	1.057	3.71%
Cr 283.563†	1043.1	0.1337	mg/L	0.00421	25.40	mg/kg	0.800	3.15%
Cu 224.700†	91.8	0.3251	mg/L	0.01017	61.75	mg/kg	1.932	3.13%
Cu 324.752†	1944.3	0.3228	mg/L	0.00351	61.33	mg/kg	0.667	1.09%
Cu 327.393†	873.9	0.3272	mg/L	0.00563	62.16	mg/kg	1.069	1.72%
Fe 238.204†	319502.5	210.1	mg/L	0.47	39920	mg/kg	89.4	0.22%
Fe 239.562†	183299.0	209.2	mg/L	0.48	39740	mg/kg	91.2	0.23%
Fe 259.939†	610643.6	210.4	mg/L	0.39	39970	mg/kg	74.0	0.19%
Fe 273.955†	100462.7	234.9	mg/L	0.52	44620	mg/kg	99.6	0.22%
K 766.490†	1330.8	0.9949	mg/L	0.02988	189.0	mg/kg	5.68	3.00%
Li 610.362†	1111.2	0.1547	mg/L	0.11166	29.39	mg/kg	21.213	72.18%
Li 670.784†	158.2	0.00579	mg/L	0.000667	1.100	mg/kg	0.1266	11.51%
Mg 279.077†	18531.7	59.13	mg/L	0.265	11230	mg/kg	50.3	0.45%
Mg 280.271†	2580312.4	54.45	mg/L	0.136	10340	mg/kg	25.9	0.25%
Mg 285.213†	222750.5	55.63	mg/L	0.115	10570	mg/kg	21.8	0.21%
Mn 257.610†	14681.6	1.248	mg/L	0.0074	237.0	mg/kg	1.40	0.59%
Mn 259.372†	16290.0	1.235	mg/L	0.0067	234.7	mg/kg	1.28	0.54%
Mn 260.568†	9310.9	1.263	mg/L	0.0092	239.9	mg/kg	1.74	0.73%
Mo 202.031†	8.5	0.8046	mg/L	0.22414	152.9	mg/kg	42.58	27.86%
Mo 203.845†	7.2	0.2172	mg/L	0.05066	41.25	mg/kg	9.624	23.33%

Mo 204.597†	7.7	0.1301 mg/L	0.01507	24.72 mg/kg	2.863	11.58%
Na 588.995†	2164.0	0.3716 mg/L	0.05768	70.59 mg/kg	10.957	15.52%
Na 589.592†	1761.1	0.4513 mg/L	0.02495	85.73 mg/kg	4.739	5.53%
Ni 221.648†	31.5	0.4036 mg/L	0.01101	76.66 mg/kg	2.091	2.73%
Ni 231.604†	114.3	0.3931 mg/L	0.01745	74.68 mg/kg	3.314	4.44%
Ni 232.003†	69.9	0.3983 mg/L	0.00726	75.67 mg/kg	1.379	1.82%
Pb 217.000†	79.6	3.493 mg/L	0.0267	663.5 mg/kg	5.07	0.76%
Pb 220.353†	153.0	3.514 mg/L	0.0500	667.6 mg/kg	9.50	1.42%
Sb 206.836†	0.3	0.00140 mg/L	0.079222	0.2668 mg/kg	15.04970	>999.9%
Sb 217.582†	-0.3	-0.06133 mg/L	0.088981	-11.65 mg/kg	16.904	145.10%
Sb 231.146†	-1.3	-0.08589 mg/L	0.095662	-16.32 mg/kg	18.173	111.38%
Se 196.026†	-2.5	-0.3820 mg/L	0.07240	-72.57 mg/kg	13.754	18.95%
Se 203.985†	1.2	0.04672 mg/L	0.365114	8.875 mg/kg	69.3605	781.50%
Sn 189.927†	4.5	0.5271 mg/L	0.33849	100.1 mg/kg	64.30	64.22%
Sn 235.485†	2906.2	-5.732 mg/L	0.8617	-1089 mg/kg	163.7	15.03%
Sn 283.998†	19.1	0.2111 mg/L	0.01404	40.10 mg/kg	2.667	6.65%
Sr 407.771†	23748.0	0.07303 mg/L	0.000252	13.87 mg/kg	0.048	0.35%
Sr 421.552†	10802.7	0.07375 mg/L	0.000469	14.01 mg/kg	0.089	0.64%
Sr 460.733†	110.2	0.04545 mg/L	0.037022	8.635 mg/kg	7.0331	81.45%
Ti 334.940†	10081.6	0.5118 mg/L	0.00384	97.23 mg/kg	0.729	0.75%
Ti 336.121†	7102.2	0.5086 mg/L	0.00295	96.62 mg/kg	0.561	0.58%
Ti 337.279†	3638.6	0.4987 mg/L	0.00884	94.74 mg/kg	1.680	1.77%
Tl 190.801†	-1.1	-0.2306 mg/L	0.17990	-43.81 mg/kg	34.176	78.02%
Tl 276.787†	210.3	0.8055 mg/L	0.19783	153.0 mg/kg	37.58	24.56%
Tl 351.924†	-8.6	-0.06720 mg/L	0.070946	-12.77 mg/kg	13.478	105.58%
V 290.880†	91.4	0.03385 mg/L	0.001676	6.431 mg/kg	0.3184	4.95%
V 309.310†	1610.8	0.06236 mg/L	0.000230	11.85 mg/kg	0.044	0.37%
V 310.230†	346.3	0.04673 mg/L	0.004477	8.878 mg/kg	0.8505	9.58%
Zn 202.548†	955.8	3.540 mg/L	0.0352	672.6 mg/kg	6.68	0.99%
Zn 206.200†	1109.8	3.648 mg/L	0.0502	693.0 mg/kg	9.54	1.38%
Zn 213.857†	1761.1	3.707 mg/L	0.0500	704.3 mg/kg	9.51	1.35%

==========

Sequence No.: 10 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 8/19/03 2:53:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:18 PM,**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161351.4						3160.11	1.96%
Ag 328.068†	2.8	0.00057	mg/L	0.000902				157.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-11.7	-0.00414	mg/L	0.001552				37.46%
Al 308.215†	-7.0	-0.01163	mg/L	0.002222				19.10%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-0.2	0.00016	mg/L	0.003634				>999.9%
Al 396.153†	-1.9	-0.00262	mg/L	0.004788				182.66%
As 188.979†	0.9	0.1238	mg/L	0.14196				114.67%
As 193.696†	-0.6	-0.1228	mg/L	0.05256				42.81%
As 197.197†	0.1	0.02565	mg/L	0.194411				757.97%
B 208.889†	1.7	0.02839	mg/L	0.024545				86.45%
B 249.677†	0.5	0.00115	mg/L	0.003408				295.82%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-0.8	-0.00085	mg/L	0.002956				349.36%
Ba 233.527†	-1.8	-0.00091	mg/L	0.002155				235.62%
Ba 455.403†	27.9	0.00025	mg/L	0.000112				44.70%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	66.3	0.00060	mg/L	0.000251				41.70%
Be 234.861†	-1.4	-0.00012	mg/L	0.000240				200.28%
Be 313.042†	4.2	0.00007	mg/L	0.000093				142.86%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-5.5	-0.00016	mg/L	0.000141				89.86%
Ca 315.887†	66.8	0.03634	mg/L	0.011823				32.53%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	30.1	0.01604	mg/L	0.018428				114.91%
Cd 214.440†	0.9	0.00105	mg/L	0.002244				214.35%
Cd 226.502†	-0.2	-0.00033	mg/L	0.002491				763.40%

Cd 228.802†	2.3	0.00451 mg/L	0.001606	35.62%
QC value within limits for Cd 228.802 Recovery = Not calculated				
Ce 413.380†	-6.9	-0.00632 mg/L	0.002527	39.97%
Ce 413.764†	6.7	0.00568 mg/L	0.006554	115.40%
Ce 418.660†	13.1	0.00847 mg/L	0.004018	47.45%
Co 228.616†	4.0	0.00732 mg/L	0.007312	99.90%
QC value within limits for Co 228.616 Recovery = Not calculated				
Co 230.786†	0.7	0.00108 mg/L	0.001092	101.11%
Co 238.892†	-2.5	-0.00523 mg/L	0.001151	22.01%
Cr 205.560†	0.6	0.00454 mg/L	0.006406	141.17%
Cr 267.716†	5.8	0.00709 mg/L	0.004234	59.71%
Cr 283.563†	4.6	0.00102 mg/L	0.000373	36.48%
QC value within limits for Cr 283.563 Recovery = Not calculated				
Cu 224.700†	-0.7	-0.00263 mg/L	0.001676	63.77%
Cu 324.752†	10.3	0.00171 mg/L	0.000962	56.28%
QC value within limits for Cu 324.752 Recovery = Not calculated				
Cu 327.393†	14.2	0.00538 mg/L	0.003271	60.82%
Fe 238.204†	171.3	0.1126 mg/L	0.03389	30.11%
Fe 239.562†	95.6	0.1090 mg/L	0.03562	32.68%
Fe 259.939†	319.4	0.1100 mg/L	0.03140	28.55%
Fe 273.955†	49.4	0.1154 mg/L	0.04104	35.55%
QC value greater than the upper limit for Fe 273.955 Recovery = Not calculated				
K 766.490†	-71.9	-0.05376 mg/L	0.035295	65.65%
QC value within limits for K 766.490 Recovery = Not calculated				
Li 610.362†	572.6	0.1073 mg/L	0.14947	139.33%
Li 670.784†	-181.9	-0.00499 mg/L	0.002607	52.27%
QC value within limits for Li 670.784 Recovery = Not calculated				
Mg 279.077†	9.3	0.02962 mg/L	0.004582	15.47%
QC value within limits for Mg 279.077 Recovery = Not calculated				
Mg 280.271†	788.3	0.01664 mg/L	0.005806	34.89%
Mg 285.213†	70.3	0.01757 mg/L	0.005085	28.94%
Mn 257.610†	5.0	0.00042 mg/L	0.000513	121.99%
QC value within limits for Mn 257.610 Recovery = Not calculated				
Mn 259.372†	8.7	0.00045 mg/L	0.000239	53.35%
Mn 260.568†	10.0	0.00137 mg/L	0.000214	15.58%
Mo 202.031†	-0.5	-0.05456 mg/L	0.054713	100.28%
Mo 203.845†	1.2	0.03986 mg/L	0.040559	101.75%
Mo 204.597†	2.6	0.04505 mg/L	0.004307	9.56%
QC value within limits for Mo 204.597 Recovery = Not calculated				
Na 588.995†	-412.9	-0.07090 mg/L	0.065538	92.44%
Na 589.592†	7.7	0.00198 mg/L	0.021281	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated				
Ni 221.648†	0.9	0.01112 mg/L	0.010939	98.41%
Ni 231.604†	0.4	0.00149 mg/L	0.003059	205.09%
QC value within limits for Ni 231.604 Recovery = Not calculated				
Ni 232.003†	0.6	0.00306 mg/L	0.011373	371.67%
Pb 217.000†	1.0	0.04853 mg/L	0.070070	144.40%
Pb 220.353†	-2.6	-0.05945 mg/L	0.015351	25.82%
QC value within limits for Pb 220.353 Recovery = Not calculated				
Sb 206.836†	-0.9	-0.03967 mg/L	0.059306	149.49%
Sb 217.582†	-0.7	-0.03587 mg/L	0.059941	167.12%
Sb 231.146†	0.4	0.02158 mg/L	0.100986	467.93%
Se 196.026†	-0.9	-0.1245 mg/L	0.07014	56.34%
Se 203.985†	-0.9	-0.1201 mg/L	0.06944	57.84%
Sn 189.927†	0.1	0.01535 mg/L	0.056207	366.18%
Sn 235.485†	1.6	0.00445 mg/L	0.115053	>999.9%
Sn 283.998†	2.7	0.00591 mg/L	0.008679	146.83%
QC value within limits for Sn 283.998 Recovery = Not calculated				
Sr 407.771†	43.5	0.00014 mg/L	0.000164	118.62%
Sr 421.552†	16.1	0.00011 mg/L	0.000148	129.76%
Sr 460.733†	-41.5	-0.02037 mg/L	0.066730	327.56%
Ti 334.940†	7.5	0.00038 mg/L	0.000239	62.36%
Ti 336.121†	-1.8	-0.00013 mg/L	0.000427	324.49%
QC value within limits for Ti 336.121 Recovery = Not calculated				
Ti 337.279†	4.0	0.00055 mg/L	0.000718	129.80%
Tl 190.801†	1.5	0.3140 mg/L	0.23459	74.71%
Tl 276.787†	-8.8	-0.09467 mg/L	0.021587	22.80%
Tl 351.924†	-2.0	-0.01280 mg/L	0.065547	512.27%
V 290.880†	-4.2	-0.00147 mg/L	0.001049	71.26%
V 309.310†	-7.1	-0.00121 mg/L	0.000190	15.65%
V 310.230†	-55.5	-0.00758 mg/L	0.006086	80.26%

QC value within limits for V 310.230 Recovery = Not calculated

Zn 202.548†	3.3	0.01234 mg/L	0.003367	27.28%
Zn 206.200†	6.1	0.01990 mg/L	0.004208	21.15%
Zn 213.857†	8.2	0.01736 mg/L	0.003204	18.46%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 11 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 2:57:31 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:27 PM,**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160409.3						2432.04	1.52%
Ag 328.068†	1208.7	0.2467	mg/L	0.00241				0.98%
QC value within limits for Ag 328.068 Recovery = 98.67%								
Ag 338.289†	681.3	0.2464	mg/L	0.00296				1.20%
Al 308.215†	612.6	0.9639	mg/L	0.01234				1.28%
QC value within limits for Al 308.215 Recovery = 96.39%								
Al 394.401†	925.1	1.038	mg/L	0.0152				1.47%
Al 396.153†	1875.3	1.029	mg/L	0.0154				1.50%
As 188.979†	13.1	1.881	mg/L	0.0599				3.18%
As 193.696†	10.2	2.026	mg/L	0.2372				11.71%
As 197.197†	12.6	2.218	mg/L	0.3731				16.82%
B 208.889†	55.2	0.9482	mg/L	0.01780				1.88%
B 249.677†	408.3	0.9454	mg/L	0.02171				2.30%
QC value within limits for B 249.677 Recovery = 94.54%								
B 249.772†	918.1	0.9387	mg/L	0.01660				1.77%
Ba 233.527†	1783.8	0.9543	mg/L	0.01013				1.06%
Ba 455.403†	121134.3	1.049	mg/L	0.0069				0.65%
QC value within limits for Ba 455.403 Recovery = 104.90%								
Ba 493.408†	115642.2	1.029	mg/L	0.0059				0.57%
Be 234.861†	11872.8	0.9624	mg/L	0.00947				0.98%
Be 313.042†	62973.4	0.9523	mg/L	0.00816				0.86%
QC value within limits for Be 313.042 Recovery = 95.23%								
Be 313.107†	33315.0	0.9485	mg/L	0.00874				0.92%
Ca 315.887†	1990.7	1.080	mg/L	0.0128				1.18%
Ca 317.933†	1858.7	0.9866	mg/L	0.01300				1.32%
QC value within limits for Ca 317.933 Recovery = 98.66%								
Cd 214.440†	804.2	0.9661	mg/L	0.01498				1.55%
Cd 226.502†	495.7	0.9480	mg/L	0.02018				2.13%
Cd 228.802†	727.3	0.9348	mg/L	0.00746				0.80%
QC value within limits for Cd 228.802 Recovery = 93.48%								
Ce 413.380†	1056.0	0.9624	mg/L	0.08563				8.90%
Ce 413.764†	1180.6	0.9950	mg/L	0.01910				1.92%
Ce 418.660†	1593.0	1.023	mg/L	0.0393				3.84%
Co 228.616†	507.4	0.9219	mg/L	0.01417				1.54%
QC value within limits for Co 228.616 Recovery = 92.19%								
Co 230.786†	558.8	0.9400	mg/L	0.00567				0.60%
Co 238.892†	462.4	0.9196	mg/L	0.00611				0.66%
Cr 205.560†	117.8	0.9338	mg/L	0.00638				0.68%
Cr 267.716†	781.2	0.9518	mg/L	0.01047				1.10%
Cr 283.563†	4201.7	0.9719	mg/L	0.01583				1.63%
QC value within limits for Cr 283.563 Recovery = 97.19%								
Cu 224.700†	247.1	0.9700	mg/L	0.01845				1.90%
Cu 324.752†	5900.2	0.9948	mg/L	0.01100				1.11%
QC value within limits for Cu 324.752 Recovery = 99.48%								
Cu 327.393†	2572.7	0.9781	mg/L	0.01099				1.12%
Fe 238.204†	1679.1	1.112	mg/L	0.0065				0.59%
Fe 239.562†	954.6	1.097	mg/L	0.0122				1.12%
Fe 259.939†	3183.7	1.104	mg/L	0.0108				0.97%
QC value greater than the upper limit for Fe 259.939 Recovery = 110.39%								
Fe 273.955†	519.3	1.215	mg/L	0.0031				0.25%
K 766.490†	6374.8	4.766	mg/L	0.0270				0.57%
QC value within limits for K 766.490 Recovery = 95.32%								
Li 610.362†	6801.6	1.246	mg/L	0.1193				9.57%

Li 670.784†	37858.1	1.038	mg/L	0.0147	1.41%
QC value less than the lower limit for Li 670.784 Recovery = 20.75%					
Mg 279.077†	307.9	0.9823	mg/L	0.01115	1.14%
Mg 280.271†	46327.3	0.9772	mg/L	0.00859	0.88%
QC value within limits for Mg 280.271 Recovery = 97.72%					
Mg 285.213†	3854.9	0.9626	mg/L	0.01287	1.34%
Mn 257.610†	11605.2	0.9896	mg/L	0.00644	0.65%
QC value within limits for Mn 257.610 Recovery = 98.96%					
Mn 259.372†	10713.4	0.9867	mg/L	0.01173	1.19%
Mn 260.568†	7233.4	0.9897	mg/L	0.00978	0.99%
Mo 202.031†	-0.1	-0.01700	mg/L	0.168482	991.14%
Mo 203.845†	2.2	0.07374	mg/L	0.060279	81.75%
Mo 204.597†	0.3	0.00401	mg/L	0.008582	214.01%
Na 588.995†	5792.3	0.9946	mg/L	0.07704	7.75%
Na 589.592†	4210.2	1.079	mg/L	0.0277	2.57%
Ni 221.648†	74.2	0.9401	mg/L	0.02543	2.70%
Ni 231.604†	277.9	0.9627	mg/L	0.01634	1.70%
QC value within limits for Ni 231.604 Recovery = 96.27%					
Ni 232.003†	174.3	0.9695	mg/L	0.02370	2.44%
Pb 217.000†	39.0	1.847	mg/L	0.1863	10.09%
Pb 220.353†	81.1	1.879	mg/L	0.0116	0.62%
QC value within limits for Pb 220.353 Recovery = 93.96%					
Sb 206.836†	-0.3	-0.02971	mg/L	0.076615	257.88%
Sb 217.582†	-1.2	-0.06853	mg/L	0.110410	161.10%
Sb 231.146†	0.8	-0.08093	mg/L	0.142737	176.38%
Se 196.026†	3.2	0.4437	mg/L	0.11126	25.08%
Se 203.985†	8.4	1.009	mg/L	0.2901	28.74%
Sn 189.927†	0.2	0.01979	mg/L	0.182369	921.54%
Sn 235.485†	15.4	-0.00575	mg/L	0.056155	976.95%
Sn 283.998†	140.7	-0.00111	mg/L	0.005634	507.44%
Sr 407.771†	321657.8	1.024	mg/L	0.0058	0.56%
Sr 421.552†	145511.8	1.035	mg/L	0.0056	0.54%
Sr 460.733†	2140.9	1.049	mg/L	0.0331	3.16%
Ti 334.940†	17.0	0.00045	mg/L	0.000469	104.35%
Ti 336.121†	2.1	0.00007	mg/L	0.000692	998.49%
Ti 337.279†	10.4	0.00154	mg/L	0.000236	15.31%
Tl 190.801†	22.8	4.589	mg/L	0.5468	11.91%
Tl 276.787†	414.7	4.384	mg/L	0.0959	2.19%
Tl 351.924†	752.8	4.886	mg/L	0.1045	2.14%
V 290.880†	2680.5	0.9456	mg/L	0.01467	1.55%
V 309.310†	5915.5	0.9363	mg/L	0.00395	0.42%
V 310.230†	6959.2	0.9514	mg/L	0.02597	2.73%
QC value within limits for V 310.230 Recovery = 95.14%					
Zn 202.548†	267.4	0.9870	mg/L	0.01707	1.73%
Zn 206.200†	304.8	1.002	mg/L	0.0031	0.31%
Zn 213.857†	475.2	1.003	mg/L	0.0131	1.30%
QC value within limits for Zn 213.857 Recovery = 100.28%					

QC Failed. Continue with analysis.

Sequence No.: 12 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 3:01:20 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:34 PM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	159650.7						1031.61	0.65%
Ag 328.068†	-21.7	-0.00167	mg/L	0.001758				104.96%
Ag 338.289†	-3.5	-0.00063	mg/L	0.003374				537.75%
Al 308.215†	20.5	0.02184	mg/L	0.008854				40.53%
Al 394.401†	15.8	0.01898	mg/L	0.008311				43.79%
Al 396.153†	104.5	0.02369	mg/L	0.003150				13.30%
As 188.979†	1.4	0.2016	mg/L	0.27409				135.93%
As 193.696†	0.2	0.04509	mg/L	0.235664				522.62%
As 197.197†	0.2	0.03786	mg/L	0.248558				656.52%
B 208.889†	0.8	0.01359	mg/L	0.019821				145.87%
B 249.677†	0.9	0.00224	mg/L	0.005351				238.52%

B 249.772†	3.7	0.00401 mg/L	0.001627	40.61%
Ba 233.527†	-28.9	-0.01480 mg/L	0.003420	23.12%
Ba 455.403†	176.5	0.00144 mg/L	0.000147	10.22%
Ba 493.408†	230.6	0.00196 mg/L	0.000666	33.92%
Be 234.861†	5.6	0.00053 mg/L	0.000433	81.16%
Be 313.042†	22.5	0.00033 mg/L	0.000087	26.44%
Be 313.107†	4.4	0.00011 mg/L	0.000125	117.51%
Ca 315.887†	64.7	0.03545 mg/L	0.001442	4.07%
Ca 317.933†	15.3	0.00888 mg/L	0.004781	53.85%
Cd 214.440†	2.3	0.00283 mg/L	0.002128	75.08%
Cd 226.502†	-0.7	-0.00143 mg/L	0.004278	300.14%
Cd 228.802†	-1.3	-0.00240 mg/L	0.001805	75.29%
Ce 413.380†	-9.4	-0.00878 mg/L	0.004249	48.38%
Ce 413.764†	13.3	0.01079 mg/L	0.002505	23.22%
Ce 418.660†	36.7	0.02330 mg/L	0.004223	18.12%
Co 228.616†	2.7	0.00386 mg/L	0.003074	79.69%
Co 230.786†	-0.4	-0.00116 mg/L	0.004828	416.19%
Co 238.892†	-3.7	-0.00723 mg/L	0.004967	68.73%
Cr 205.560†	0.5	0.00340 mg/L	0.005366	157.77%
Cr 267.716†	6.7	0.00817 mg/L	0.004639	56.81%
Cr 283.563†	-0.9	-0.00044 mg/L	0.000148	34.11%
Cu 224.700†	-0.1	-0.00394 mg/L	0.003495	88.76%
Cu 324.752†	27.0	0.00216 mg/L	0.000538	24.93%
Cu 327.393†	17.0	0.00418 mg/L	0.001100	26.33%
Fe 238.204†	170.5	0.1143 mg/L	0.00209	1.83%
Fe 239.562†	94.8	0.1104 mg/L	0.00156	1.41%
Fe 259.939†	307.0	0.1080 mg/L	0.00092	0.85%
Fe 273.955†	50.1	0.1197 mg/L	0.00144	1.20%
K 766.490†	-39.3	-0.02938 mg/L	0.063250	215.31%
Li 610.362†	1133.2	0.2093 mg/L	0.07436	35.54%
Li 670.784†	108.7	0.00315 mg/L	0.001075	34.16%
Mg 279.077†	0.6	0.00251 mg/L	0.006013	239.97%
Mg 280.271†	321.7	0.00683 mg/L	0.000447	6.54%
Mg 285.213†	33.0	0.00832 mg/L	0.000790	9.50%
Mn 257.610†	30.8	0.00226 mg/L	0.000285	12.62%
Mn 259.372†	84.1	0.00252 mg/L	0.000213	8.43%
Mn 260.568†	17.7	0.00245 mg/L	0.000229	9.35%
Mo 202.031†	7.4	0.8704 mg/L	0.07822	8.99%
Mo 203.845†	30.2	1.012 mg/L	0.0631	6.24%
Mo 204.597†	55.5	0.9647 mg/L	0.01103	1.14%
QC value within limits for Mo 204.597 Recovery = 96.47%				
Na 588.995†	-232.4	-0.03991 mg/L	0.022892	57.35%
Na 589.592†	248.6	0.06369 mg/L	0.033283	52.25%
Ni 221.648†	-1.2	-0.01452 mg/L	0.016165	111.34%
Ni 231.604†	-0.2	-0.00100 mg/L	0.014407	>999.9%
Ni 232.003†	2.2	0.00683 mg/L	0.005668	82.97%
Pb 217.000†	1.0	0.04962 mg/L	0.018944	38.18%
Pb 220.353†	-1.1	-0.02279 mg/L	0.026370	115.70%
Sb 206.836†	43.7	1.975 mg/L	0.0501	2.54%
QC value within limits for Sb 206.836 Recovery = 98.75%				
Sb 217.582†	36.3	1.999 mg/L	0.0802	4.01%
QC value within limits for Sb 217.582 Recovery = 99.94%				
Sb 231.146†	36.6	1.831 mg/L	0.0576	3.15%
QC value within limits for Sb 231.146 Recovery = 91.56%				
Se 196.026†	-2.2	-0.3246 mg/L	0.30371	93.58%
Se 203.985†	0.2	-0.04308 mg/L	0.099255	230.42%
Sn 189.927†	36.0	4.381 mg/L	0.2115	4.83%
Sn 235.485†	184.8	4.793 mg/L	0.0665	1.39%
Sn 283.998†	772.3	2.256 mg/L	0.0184	0.81%
QC value less than the lower limit for Sn 283.998 Recovery = 45.12%				
Sr 407.771†	146.2	0.00035 mg/L	0.000164	47.50%
Sr 421.552†	70.6	0.00039 mg/L	0.000198	51.34%
Sr 460.733†	-40.2	-0.01907 mg/L	0.073968	387.90%
Ti 334.940†	19495.4	0.9831 mg/L	0.00452	0.46%
Ti 336.121†	13609.5	0.9804 mg/L	0.00252	0.26%
QC value within limits for Ti 336.121 Recovery = 98.04%				
Ti 337.279†	7032.6	0.9659 mg/L	0.00979	1.01%
Tl 190.801†	1.0	0.2079 mg/L	0.26760	128.70%
Tl 276.787†	2.1	0.02469 mg/L	0.031810	128.85%
Tl 351.924†	5.4	0.03202 mg/L	0.036348	113.51%
V 290.880†	-0.1	-0.00008 mg/L	0.001504	>999.9%

V 309.310†	-8.1	-0.00118	mg/L	0.001071	90.69%
V 310.230†	-40.7	-0.00551	mg/L	0.001277	23.17%
Zn 202.548†	7.7	0.02919	mg/L	0.007795	26.70%
Zn 206.200†	9.8	0.03308	mg/L	0.002635	7.97%
Zn 213.857†	14.5	0.03134	mg/L	0.003125	9.97%

QC Failed. Continue with analysis.

Sequence No.: 13 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 3:05:06 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:41 PM,**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158104.3						2667.02	1.69%
Ag 328.068†	0.4	0.00111	mg/L	0.001286				115.38%
Ag 338.289†	-16.6	0.00012	mg/L	0.001166				945.25%
Al 308.215†	59198.4	95.15	mg/L	0.538				0.57%
QC value within limits for Al 308.215 Recovery = 95.15%								
Al 394.401†	82950.4	98.95	mg/L	0.299				0.30%
Al 396.153†	182607.2	99.48	mg/L	0.359				0.36%
As 188.979†	0.7	0.03700	mg/L	0.032722				88.45%
As 193.696†	-0.1	-0.00025	mg/L	0.180240				>999.9%
As 197.197†	-3.1	-0.3262	mg/L	0.39137				119.98%
B 208.889†	1.0	0.01123	mg/L	0.016749				149.15%
B 249.677†	-2.5	-0.00356	mg/L	0.003326				93.30%
B 249.772†	40.3	-0.01078	mg/L	0.002886				26.77%
Ba 233.527†	11.4	-0.00271	mg/L	0.001403				51.83%
Ba 455.403†	118.2	0.00069	mg/L	0.000141				20.61%
Ba 493.408†	231.8	0.00098	mg/L	0.000291				29.82%
Be 234.861†	91.6	-0.00019	mg/L	0.000994				523.57%
Be 313.042†	17.8	0.00008	mg/L	0.000069				81.25%
Be 313.107†	0.0	-0.00001	mg/L	0.000092				803.34%
Ca 315.887†	187121.8	101.8	mg/L	0.18				0.17%
QC value within limits for Ca 315.887 Recovery = 101.83%								
Ca 317.933†	178699.5	95.08	mg/L	0.238				0.25%
Cd 214.440†	0.8	0.00328	mg/L	0.000740				22.55%
Cd 226.502†	0.5	-0.00353	mg/L	0.004615				130.76%
Cd 228.802†	1.0	0.00279	mg/L	0.004799				172.06%
Ce 413.380†	10.0	-0.00920	mg/L	0.004400				47.82%
Ce 413.764†	19.4	0.00859	mg/L	0.007294				84.88%
Ce 418.660†	15.6	0.00781	mg/L	0.011393				145.96%
Co 228.616†	1.3	0.00210	mg/L	0.007314				348.80%
Co 230.786†	1.0	-0.00187	mg/L	0.002789				149.22%
Co 238.892†	82.9	0.00331	mg/L	0.013994				423.27%
Cr 205.560†	1.6	0.01207	mg/L	0.019854				164.55%
Cr 267.716†	-0.6	0.00251	mg/L	0.000668				26.59%
Cr 283.563†	164.5	-0.00786	mg/L	0.000996				12.67%
Cu 224.700†	5.9	0.00931	mg/L	0.005542				59.55%
Cu 324.752†	-11.1	-0.00436	mg/L	0.000374				8.58%
Cu 327.393†	11.4	0.00080	mg/L	0.002018				252.73%
Fe 238.204†	140370.8	92.32	mg/L	0.301				0.33%
Fe 239.562†	80047.9	91.37	mg/L	0.463				0.51%
Fe 259.939†	267973.6	92.34	mg/L	0.311				0.34%
Fe 273.955†	43342.0	101.3	mg/L	0.61				0.60%
QC value within limits for Fe 273.955 Recovery = 101.34%								
K 766.490†	132041.1	98.72	mg/L	0.256				0.26%
Li 610.362†	1011.1	0.1551	mg/L	0.12777				82.37%
Li 670.784†	546.8	0.01624	mg/L	0.001535				9.45%
Mg 279.077†	18081.5	57.74	mg/L	0.434				0.75%
QC value within limits for Mg 279.077 Recovery = 96.23%								
Mg 280.271†	2534027.9	53.49	mg/L	0.255				0.48%
Mg 285.213†	218393.8	54.56	mg/L	0.185				0.34%
Mn 257.610†	36.1	0.00040	mg/L	0.000604				149.93%
Mn 259.372†	1210.1	-0.00424	mg/L	0.000686				16.19%
Mn 260.568†	54.2	0.00149	mg/L	0.000419				28.07%
Mo 202.031†	6.6	0.6154	mg/L	0.17698				28.76%

Mo 203.845†	3.4	0.07721	mg/L	0.102235	132.41%
Mo 204.597†	1.0	0.00604	mg/L	0.025982	430.07%
Na 588.995†	572994.9	98.39	mg/L	0.434	0.44%
Na 589.592†	381516.2	97.77	mg/L	0.374	0.38%
QC value within limits for Na 589.592 Recovery = 97.77%					
Ni 221.648†	3.8	0.05548	mg/L	0.017288	31.16%
Ni 231.604†	0.6	0.00069	mg/L	0.002322	338.40%
Ni 232.003†	-4.1	-0.02081	mg/L	0.021348	102.60%
Pb 217.000†	9.0	0.1020	mg/L	0.17515	171.67%
Pb 220.353†	3.4	0.1690	mg/L	0.04197	24.84%
Sb 206.836†	1.9	0.06168	mg/L	0.029775	48.27%
Sb 217.582†	-1.2	-0.09692	mg/L	0.051216	52.84%
Sb 231.146†	-1.7	-0.08493	mg/L	0.108880	128.20%
Se 196.026†	-2.2	-0.3472	mg/L	0.26804	77.20%
Se 203.985†	3.1	0.2750	mg/L	0.48829	177.59%
Sn 189.927†	2.5	0.2891	mg/L	0.24450	84.58%
Sn 235.485†	1222.2	-3.294	mg/L	0.2467	7.49%
Sn 283.998†	-42.5	-0.02211	mg/L	0.011394	51.54%
Sr 407.771†	577.4	-0.00049	mg/L	0.000223	45.93%
Sr 421.552†	288.5	-0.00050	mg/L	0.000019	3.69%
Sr 460.733†	-70.6	-0.04181	mg/L	0.058174	139.14%
Ti 334.940†	-30.1	0.00064	mg/L	0.000219	34.19%
Ti 336.121†	50.6	0.00054	mg/L	0.000689	126.73%
Ti 337.279†	14.9	0.00072	mg/L	0.000820	114.30%
Tl 190.801†	1.6	0.3156	mg/L	0.55558	176.02%
Tl 276.787†	229.6	1.124	mg/L	0.0736	6.56%
Tl 351.924†	3.6	0.01545	mg/L	0.051633	334.26%
V 290.880†	-77.7	-0.01982	mg/L	0.001183	5.97%
V 309.310†	1659.6	0.00364	mg/L	0.000250	6.86%
V 310.230†	-54.1	-0.00928	mg/L	0.003351	36.10%
Zn 202.548†	8.3	0.02718	mg/L	0.004257	15.66%
Zn 206.200†	7.6	0.03033	mg/L	0.008615	28.40%
Zn 213.857†	22.6	0.03979	mg/L	0.005174	13.00%

All analytes passed QC.

==========

Sequence No.: 14 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 8/19/03 3:08:59 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:54:48 PM,**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160288.1						2978.00	1.86%
Ag 328.068†	3.3	0.00068	mg/L	0.002451				362.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-7.7	-0.00274	mg/L	0.000944				34.45%
Al 308.215†	3.0	0.00483	mg/L	0.011352				235.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	14.2	0.01713	mg/L	0.004576				26.72%
Al 396.153†	40.3	0.02135	mg/L	0.012338				57.78%
As 188.979†	-0.9	-0.1301	mg/L	0.07487				57.54%
As 193.696†	-0.8	-0.1622	mg/L	0.15876				97.86%
QC value less than the lower limit for As 193.696 Recovery = Not calculated								
As 197.197†	-0.5	-0.08077	mg/L	0.157067				194.47%
B 208.889†	0.0	0.00070	mg/L	0.039726				>999.9%
B 249.677†	-3.8	-0.00885	mg/L	0.001275				14.42%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	3.6	0.00363	mg/L	0.000777				21.39%
Ba 233.527†	0.2	0.00011	mg/L	0.000603				541.29%
Ba 455.403†	6.3	0.00007	mg/L	0.000296				439.76%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	63.5	0.00058	mg/L	0.000444				76.74%
Be 234.861†	1.9	0.00016	mg/L	0.000089				57.21%
Be 313.042†	9.8	0.00015	mg/L	0.000008				5.12%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	1.8	0.00005	mg/L	0.000175				345.38%
Ca 315.887†	55.3	0.03008	mg/L	0.009952				33.08%

QC value within limits for Ca 315.887 Recovery = Not calculated					
Ca 317.933†	5.7	0.00305	mg/L	0.005198	170.31%
Cd 214.440†	-0.0	-0.00003	mg/L	0.001441	>999.9%
Cd 226.502†	-0.0	-0.00001	mg/L	0.000686	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Cd 228.802†	4.3	0.00765	mg/L	0.003268	42.72%
Ce 413.380†	-3.5	-0.00322	mg/L	0.010648	330.23%
Ce 413.764†	27.7	0.02339	mg/L	0.003175	13.58%
Ce 418.660†	14.5	0.00934	mg/L	0.007171	76.80%
Co 228.616†	0.6	0.00119	mg/L	0.003241	273.46%
QC value within limits for Co 228.616 Recovery = Not calculated					
Co 230.786†	-4.7	-0.00796	mg/L	0.008034	100.97%
Co 238.892†	-2.6	-0.00533	mg/L	0.003491	65.54%
Cr 205.560†	0.2	0.00193	mg/L	0.005994	311.10%
Cr 267.716†	1.1	0.00139	mg/L	0.001944	139.88%
Cr 283.563†	7.7	0.00176	mg/L	0.000902	51.11%
QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	-2.2	-0.00862	mg/L	0.008778	101.80%
Cu 324.752†	-11.0	-0.00189	mg/L	0.001162	61.54%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	3.3	0.00124	mg/L	0.001666	133.96%
Fe 238.204†	83.2	0.05458	mg/L	0.005373	9.84%
Fe 239.562†	43.1	0.04912	mg/L	0.006440	13.11%
Fe 259.939†	144.6	0.04973	mg/L	0.005420	10.90%
QC value within limits for Fe 259.939 Recovery = Not calculated					
Fe 273.955†	22.0	0.05127	mg/L	0.006570	12.81%
K 766.490†	61.3	0.04581	mg/L	0.050199	109.57%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	888.2	0.1664	mg/L	0.15191	91.28%
Li 670.784†	-149.2	-0.00409	mg/L	0.000781	19.07%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	8.4	0.02698	mg/L	0.013002	48.19%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	803.6	0.01697	mg/L	0.003210	18.92%
Mg 285.213†	72.0	0.01798	mg/L	0.003459	19.24%
Mn 257.610†	4.8	0.00040	mg/L	0.000665	165.76%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	8.0	0.00059	mg/L	0.000591	99.48%
Mn 260.568†	4.8	0.00067	mg/L	0.000561	83.96%
Mo 202.031†	0.2	0.01901	mg/L	0.025160	132.36%
Mo 203.845†	2.4	0.07978	mg/L	0.084689	106.16%
Mo 204.597†	1.0	0.01742	mg/L	0.012360	70.95%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	119.9	0.02058	mg/L	0.105188	511.02%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	413.2	0.1059	mg/L	0.00847	8.00%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated					
Ni 221.648†	-0.1	-0.00141	mg/L	0.020410	>999.9%
Ni 231.604†	-1.1	-0.00366	mg/L	0.000310	8.48%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-1.7	-0.00996	mg/L	0.006917	69.42%
Pb 217.000†	1.3	0.06000	mg/L	0.050964	84.94%
Pb 220.353†	-1.3	-0.03056	mg/L	0.017564	57.47%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	0.4	0.01746	mg/L	0.021817	124.99%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	0.1	0.00586	mg/L	0.044596	761.26%
Sb 231.146†	1.0	0.04903	mg/L	0.117085	238.78%
Se 196.026†	-1.0	-0.1457	mg/L	0.23702	162.69%
QC value less than the lower limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-1.3	-0.1737	mg/L	0.14884	85.69%
Sn 189.927†	0.6	0.07180	mg/L	0.099981	139.25%
Sn 235.485†	2.6	0.04970	mg/L	0.038941	78.34%
QC value within limits for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	-1.3	-0.00468	mg/L	0.011571	247.24%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-7.9	-0.00002	mg/L	0.000140	569.10%
Sr 421.552†	2.6	0.00002	mg/L	0.000102	533.82%
Sr 460.733†	-40.9	-0.02011	mg/L	0.029630	147.37%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	11.4	0.00058	mg/L	0.000585	100.98%

Ti 336.121†	3.0	0.00021	mg/L	0.000850	397.70%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	4.1	0.00056	mg/L	0.000353	63.02%
Tl 190.801†	0.5	0.1003	mg/L	0.21151	210.90%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-5.7	-0.06099	mg/L	0.030698	50.33%
Tl 351.924†	-5.4	-0.03497	mg/L	0.085125	243.44%
V 290.880†	-3.9	-0.00137	mg/L	0.002071	150.65%
V 309.310†	-11.6	-0.00193	mg/L	0.002015	104.56%
V 310.230†	-61.8	-0.00844	mg/L	0.004291	50.82%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	0.7	0.00248	mg/L	0.006784	273.45%
Zn 206.200†	5.9	0.01920	mg/L	0.001998	10.41%
Zn 213.857†	4.7	0.00989	mg/L	0.003260	32.95%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 15 **Autosampler Location: 43**
Sample ID: 0305007-34 **Date Collected: 8/19/03 3:12:46 PM**
Analyst:
Sample Wt: 0.5167 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 1:54:55 PM,**

Mean Data: 0305007-34

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	154589.7						1871.06	1.21%
Ag 328.068†	-14.3	0.00183	mg/L	0.000798	0.3535	mg/kg	0.15438	43.68%
Ag 338.289†	-1.4	0.00099	mg/L	0.001316	0.1926	mg/kg	0.25463	132.24%
Al 308.215†	2824.9	4.472	mg/L	0.0591	865.5	mg/kg	11.44	1.32%
Al 394.401†	3725.4	4.594	mg/L	0.1804	889.2	mg/kg	34.91	3.93%
Al 396.153†	8970.9	4.815	mg/L	0.1461	931.8	mg/kg	28.28	3.03%
As 188.979†	7.3	0.6945	mg/L	0.23660	134.4	mg/kg	45.79	34.07%
As 193.696†	1.8	0.5219	mg/L	0.40375	101.0	mg/kg	78.14	77.37%
As 197.197†	-12.3	-0.9720	mg/L	0.05629	-188.1	mg/kg	10.89	5.79%
B 208.889†	10.5	0.1180	mg/L	0.02671	22.83	mg/kg	5.169	22.64%
B 249.677†	6.6	0.01561	mg/L	0.011213	3.022	mg/kg	2.1701	71.81%
B 249.772†	54.8	0.02208	mg/L	0.002457	4.274	mg/kg	0.4756	11.13%
Ba 233.527†	86.9	0.03977	mg/L	0.001439	7.697	mg/kg	0.2785	3.62%
Ba 455.403†	5665.2	0.04790	mg/L	0.001532	9.269	mg/kg	0.2966	3.20%
Ba 493.408†	5458.9	0.04696	mg/L	0.001568	9.089	mg/kg	0.3035	3.34%
Be 234.861†	73.5	-0.00006	mg/L	0.001454	-0.01078	mg/kg	0.281496	>999.9%
Be 313.042†	53.8	0.00008	mg/L	0.000093	0.01633	mg/kg	0.018033	110.46%
Be 313.107†	13.5	0.00039	mg/L	0.000173	0.07562	mg/kg	0.033567	44.39%
Ca 315.887†	926318.9	504.1	mg/L	3.43	97560	mg/kg	663.8	0.68%
Ca 317.933†	879095.4	467.7	mg/L	3.03	90520	mg/kg	585.7	0.65%
Cd 214.440†	11.5	0.01001	mg/L	0.002627	1.937	mg/kg	0.5083	26.25%
Cd 226.502†	-2.9	0.00411	mg/L	0.006355	0.7957	mg/kg	1.22998	154.57%
Cd 228.802†	7.9	0.00644	mg/L	0.004677	1.247	mg/kg	0.9051	72.60%
Ce 413.380†	48.8	0.03417	mg/L	0.010222	6.612	mg/kg	1.9784	29.92%
Ce 413.764†	50.1	0.02897	mg/L	0.007617	5.607	mg/kg	1.4741	26.29%
Ce 418.660†	59.9	0.04493	mg/L	0.013478	8.696	mg/kg	2.6085	30.00%
Co 228.616†	9.9	0.02154	mg/L	0.005747	4.169	mg/kg	1.1123	26.68%
Co 230.786†	10.8	0.01280	mg/L	0.006947	2.478	mg/kg	1.3445	54.26%
Co 238.892†	66.4	0.00782	mg/L	0.026825	1.514	mg/kg	5.1917	343.02%
Cr 205.560†	12.1	0.08896	mg/L	0.008279	17.22	mg/kg	1.602	9.31%
Cr 267.716†	63.6	0.07715	mg/L	0.003774	14.93	mg/kg	0.730	4.89%
Cr 283.563†	461.9	0.07722	mg/L	0.002301	14.95	mg/kg	0.445	2.98%
Cu 224.700†	36.0	0.1172	mg/L	0.00594	22.68	mg/kg	1.150	5.07%
Cu 324.752†	650.7	0.1058	mg/L	0.00253	20.47	mg/kg	0.490	2.39%
Cu 327.393†	333.4	0.1146	mg/L	0.00121	22.18	mg/kg	0.235	1.06%
Fe 238.204†	107900.3	70.99	mg/L	0.466	13740	mg/kg	90.2	0.66%
Fe 239.562†	60629.1	69.23	mg/L	1.813	13400	mg/kg	350.9	2.62%
Fe 259.939†	206640.9	71.23	mg/L	0.441	13790	mg/kg	85.4	0.62%
Fe 273.955†	32809.4	76.75	mg/L	2.351	14850	mg/kg	454.9	3.06%
K 766.490†	884.7	0.6614	mg/L	0.06737	128.0	mg/kg	13.04	10.19%
Li 610.362†	1538.5	0.1417	mg/L	0.03055	27.43	mg/kg	5.912	21.55%
Li 670.784†	67.0	0.00573	mg/L	0.001466	1.110	mg/kg	0.2836	25.56%
Mg 279.077†	83518.2	266.8	mg/L	6.69	51640	mg/kg	1295.5	2.51%

Mg 280.271†	9913877.7	209.3	mg/L	2.05	40500	mg/kg	396.3	0.98%
Mg 285.213†	933708.4	233.3	mg/L	1.68	45150	mg/kg	324.7	0.72%
Mn 257.610†	33869.5	2.883	mg/L	0.0851	557.9	mg/kg	16.48	2.95%
Mn 259.372†	32213.4	2.879	mg/L	0.0776	557.2	mg/kg	15.02	2.70%
Mn 260.568†	21288.7	2.907	mg/L	0.0893	562.7	mg/kg	17.27	3.07%
Mo 202.031†	22.4	1.905	mg/L	0.2890	368.6	mg/kg	55.93	15.17%
Mo 203.845†	4.0	0.1755	mg/L	0.03468	33.97	mg/kg	6.712	19.76%
Mo 204.597†	1.6	0.03123	mg/L	0.021790	6.044	mg/kg	4.2171	69.78%
Na 588.995†	4302.8	0.7388	mg/L	0.05333	143.0	mg/kg	10.32	7.22%
Na 589.592†	2924.3	0.7494	mg/L	0.03592	145.0	mg/kg	6.95	4.79%
Ni 221.648†	3.5	0.07755	mg/L	0.001594	15.01	mg/kg	0.308	2.05%
Ni 231.604†	22.0	0.07529	mg/L	0.005561	14.57	mg/kg	1.076	7.39%
Ni 232.003†	9.1	0.07108	mg/L	0.010198	13.76	mg/kg	1.974	14.35%
Pb 217.000†	21.4	0.7802	mg/L	0.18833	151.0	mg/kg	36.45	24.14%
Pb 220.353†	38.9	0.6689	mg/L	0.06496	129.5	mg/kg	12.57	9.71%
Sb 206.836†	6.5	0.2231	mg/L	0.10539	43.18	mg/kg	20.397	47.24%
Sb 217.582†	-7.3	-0.2127	mg/L	0.04794	-41.16	mg/kg	9.278	22.54%
Sb 231.146†	-3.2	-0.1471	mg/L	0.05249	-28.47	mg/kg	10.158	35.68%
Se 196.026†	-2.2	-0.3355	mg/L	0.23925	-64.92	mg/kg	46.304	71.32%
Se 203.985†	4.0	0.5006	mg/L	0.57998	96.88	mg/kg	112.247	115.86%
Sn 189.927†	1.5	0.09488	mg/L	0.123861	18.36	mg/kg	23.971	130.55%
Sn 235.485†	941.8	-2.060	mg/L	0.5496	-398.7	mg/kg	106.36	26.67%
Sn 283.998†	-121.3	-0.1679	mg/L	0.00255	-32.49	mg/kg	0.494	1.52%
Sr 407.771†	40736.4	0.1183	mg/L	0.00408	22.90	mg/kg	0.789	3.45%
Sr 421.552†	18548.7	0.1203	mg/L	0.00466	23.27	mg/kg	0.901	3.87%
Sr 460.733†	252.6	0.09395	mg/L	0.024462	18.18	mg/kg	4.734	26.04%
Ti 334.940†	7160.8	0.3750	mg/L	0.01392	72.58	mg/kg	2.695	3.71%
Ti 336.121†	5358.3	0.3739	mg/L	0.01192	72.37	mg/kg	2.308	3.19%
Ti 337.279†	2733.6	0.3732	mg/L	0.00479	72.24	mg/kg	0.928	1.28%
Tl 190.801†	-1.5	-0.1312	mg/L	0.55930	-25.39	mg/kg	108.245	426.34%
Tl 276.787†	888.2	3.455	mg/L	0.1320	668.7	mg/kg	25.54	3.82%
Tl 351.924†	-0.6	-0.01295	mg/L	0.049211	-2.507	mg/kg	9.5241	379.89%
V 290.880†	-158.6	0.00716	mg/L	0.004575	1.385	mg/kg	0.8853	63.92%
V 309.310†	6233.5	0.08587	mg/L	0.007872	16.62	mg/kg	1.523	9.17%
V 310.230†	268.3	0.03277	mg/L	0.004242	6.342	mg/kg	0.8210	12.95%
Zn 202.548†	348.4	1.277	mg/L	0.0281	247.1	mg/kg	5.43	2.20%
Zn 206.200†	393.6	1.295	mg/L	0.0318	250.7	mg/kg	6.16	2.46%
Zn 213.857†	665.7	1.375	mg/L	0.0176	266.2	mg/kg	3.41	1.28%

Sequence No.: 16 **Autosampler Location: 45**
Sample ID: 0305007-35 **Date Collected: 8/19/03 3:16:42 PM**
Analyst:
Sample Wt: 0.5694 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Reprocessed on 8/20/03 1:55:02 PM,**

Mean Data: 0305007-35

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	156489.1						1785.46	1.14%
Ag 328.068†	-12.9	-0.00091	mg/L	0.000524	-0.1607	mg/kg	0.09196	57.24%
Ag 338.289†	-9.7	-0.00286	mg/L	0.000684	-0.5028	mg/kg	0.12020	23.91%
Al 308.215†	2226.7	3.564	mg/L	0.0426	625.9	mg/kg	7.48	1.20%
Al 394.401†	3029.8	3.645	mg/L	0.0389	640.1	mg/kg	6.84	1.07%
Al 396.153†	6989.6	3.792	mg/L	0.0145	666.0	mg/kg	2.55	0.38%
As 188.979†	2.8	0.3248	mg/L	0.10345	57.05	mg/kg	18.168	31.85%
As 193.696†	0.4	0.1085	mg/L	0.06834	19.05	mg/kg	12.002	63.01%
As 197.197†	-5.2	-0.6613	mg/L	0.44587	-116.1	mg/kg	78.30	67.42%
B 208.889†	3.6	0.04896	mg/L	0.039236	8.599	mg/kg	6.8907	80.14%
B 249.677†	3.9	0.00918	mg/L	0.003078	1.613	mg/kg	0.5405	33.52%
B 249.772†	18.0	0.00777	mg/L	0.001916	1.365	mg/kg	0.3365	24.65%
Ba 233.527†	43.8	0.02143	mg/L	0.002017	3.763	mg/kg	0.3542	9.41%
Ba 455.403†	2951.3	0.02529	mg/L	0.000442	4.441	mg/kg	0.0777	1.75%
Ba 493.408†	2872.2	0.02515	mg/L	0.000601	4.416	mg/kg	0.1056	2.39%
Be 234.861†	24.7	0.00023	mg/L	0.000287	0.04069	mg/kg	0.050342	123.73%
Be 313.042†	28.9	0.00026	mg/L	0.000022	0.04629	mg/kg	0.003894	8.41%
Be 313.107†	7.8	0.00022	mg/L	0.000061	0.03834	mg/kg	0.010745	28.02%
Ca 315.887†	205946.5	112.1	mg/L	0.26	19680	mg/kg	45.2	0.23%
Ca 317.933†	196365.2	104.5	mg/L	0.09	18350	mg/kg	15.4	0.08%
Cd 214.440†	1.5	0.00102	mg/L	0.000461	0.1800	mg/kg	0.08089	44.95%

Cd 226.502†	-0.6	0.00066 mg/L	0.000513	0.1165 mg/kg	0.09017	77.39%
Cd 228.802†	2.2	0.00220 mg/L	0.002145	0.3871 mg/kg	0.37666	97.30%
Ce 413.380†	48.3	0.04062 mg/L	0.002516	7.134 mg/kg	0.4419	6.19%
Ce 413.764†	70.5	0.05621 mg/L	0.010098	9.871 mg/kg	1.7735	17.97%
Ce 418.660†	101.7	0.06651 mg/L	0.002626	11.68 mg/kg	0.461	3.95%
Co 228.616†	8.6	0.01613 mg/L	0.004066	2.833 mg/kg	0.7142	25.21%
Co 230.786†	4.0	0.00531 mg/L	0.004390	0.9329 mg/kg	0.77096	82.64%
Co 238.892†	22.6	0.00811 mg/L	0.006341	1.424 mg/kg	1.1137	78.23%
Cr 205.560†	3.4	0.02526 mg/L	0.009737	4.437 mg/kg	1.7100	38.54%
Cr 267.716†	22.0	0.02692 mg/L	0.003328	4.727 mg/kg	0.5845	12.37%
Cr 283.563†	137.6	0.02250 mg/L	0.001727	3.952 mg/kg	0.3033	7.67%
Cu 224.700†	5.4	0.01519 mg/L	0.003333	2.668 mg/kg	0.5854	21.94%
Cu 324.752†	77.1	0.01197 mg/L	0.002420	2.103 mg/kg	0.4250	20.21%
Cu 327.393†	57.1	0.01887 mg/L	0.001892	3.315 mg/kg	0.3323	10.02%
Fe 238.204†	32065.4	21.09 mg/L	0.081	3705 mg/kg	14.2	0.38%
Fe 239.562†	18220.5	20.80 mg/L	0.083	3653 mg/kg	14.6	0.40%
Fe 259.939†	60941.8	21.01 mg/L	0.050	3689 mg/kg	8.8	0.24%
Fe 273.955†	9774.4	22.86 mg/L	0.009	4015 mg/kg	1.6	0.04%
K 766.490†	863.6	0.6456 mg/L	0.09537	113.4 mg/kg	16.75	14.77%
Li 610.362†	1980.1	0.3374 mg/L	0.06969	59.25 mg/kg	12.239	20.66%
Li 670.784†	54.7	0.00238 mg/L	0.002732	0.4181 mg/kg	0.47973	114.74%
Mg 279.077†	18381.9	58.72 mg/L	0.308	10310 mg/kg	54.0	0.52%
Mg 280.271†	2582761.4	54.52 mg/L	0.715	9575 mg/kg	125.6	1.31%
Mg 285.213†	220659.8	55.13 mg/L	0.385	9682 mg/kg	67.7	0.70%
Mn 257.610†	6688.3	0.5690 mg/L	0.00385	99.93 mg/kg	0.677	0.68%
Mn 259.372†	6449.4	0.5678 mg/L	0.00148	99.71 mg/kg	0.260	0.26%
Mn 260.568†	4220.1	0.5759 mg/L	0.00798	101.1 mg/kg	1.40	1.39%
Mo 202.031†	6.7	0.6209 mg/L	0.16569	109.1 mg/kg	29.10	26.68%
Mo 203.845†	1.9	0.07022 mg/L	0.090216	12.33 mg/kg	15.844	128.47%
Mo 204.597†	0.8	0.01432 mg/L	0.031995	2.515 mg/kg	5.6191	223.46%
Na 588.995†	1567.0	0.2691 mg/L	0.02920	47.25 mg/kg	5.128	10.85%
Na 589.592†	1677.6	0.4299 mg/L	0.01862	75.50 mg/kg	3.270	4.33%
Ni 221.648†	3.5	0.05134 mg/L	0.021882	9.017 mg/kg	3.8430	42.62%
Ni 231.604†	5.8	0.01959 mg/L	0.006078	3.441 mg/kg	1.0674	31.02%
Ni 232.003†	0.5	0.00679 mg/L	0.020533	1.193 mg/kg	3.6060	302.35%
Pb 217.000†	1.6	0.01242 mg/L	0.033782	2.181 mg/kg	5.9329	272.05%
Pb 220.353†	4.9	0.06715 mg/L	0.055162	11.79 mg/kg	9.688	82.15%
Sb 206.836†	1.4	0.04488 mg/L	0.035864	7.881 mg/kg	6.2985	79.92%
Sb 217.582†	-2.6	-0.1059 mg/L	0.14915	-18.60 mg/kg	26.194	140.80%
Sb 231.146†	0.1	0.00548 mg/L	0.132169	0.9620 mg/kg	23.21197	>999.9%
Se 196.026†	-3.9	-0.5638 mg/L	0.62382	-99.02 mg/kg	109.557	110.64%
Se 203.985†	2.2	0.2878 mg/L	0.05077	50.55 mg/kg	8.916	17.64%
Sn 189.927†	-0.2	-0.04100 mg/L	0.067062	-7.201 mg/kg	11.7777	163.55%
Sn 235.485†	283.2	-0.5460 mg/L	0.11868	-95.89 mg/kg	20.843	21.74%
Sn 283.998†	-33.6	-0.05405 mg/L	0.011632	-9.493 mg/kg	2.0428	21.52%
Sr 407.771†	11905.3	0.03534 mg/L	0.000214	6.207 mg/kg	0.0376	0.61%
Sr 421.552†	5368.5	0.03555 mg/L	0.000130	6.244 mg/kg	0.0228	0.36%
Sr 460.733†	-13.1	-0.01333 mg/L	0.006419	-2.342 mg/kg	1.1273	48.14%
Ti 334.940†	6036.9	0.3075 mg/L	0.00174	54.01 mg/kg	0.306	0.57%
Ti 336.121†	4247.2	0.3033 mg/L	0.00126	53.26 mg/kg	0.221	0.41%
Ti 337.279†	2230.2	0.3058 mg/L	0.00207	53.70 mg/kg	0.363	0.68%
Tl 190.801†	-0.5	-0.05789 mg/L	0.160440	-10.17 mg/kg	28.177	277.16%
Tl 276.787†	237.9	1.211 mg/L	0.0480	212.6 mg/kg	8.43	3.97%
Tl 351.924†	-8.8	-0.06101 mg/L	0.074629	-10.72 mg/kg	13.107	122.32%
V 290.880†	-11.9	0.00931 mg/L	0.001073	1.634 mg/kg	0.1885	11.53%
V 309.310†	1449.7	0.02972 mg/L	0.003051	5.220 mg/kg	0.5358	10.26%
V 310.230†	128.5	0.01667 mg/L	0.004884	2.928 mg/kg	0.8578	29.29%
Zn 202.548†	49.9	0.1815 mg/L	0.00517	31.87 mg/kg	0.908	2.85%
Zn 206.200†	59.0	0.1946 mg/L	0.00265	34.18 mg/kg	0.465	1.36%
Zn 213.857†	94.4	0.1921 mg/L	0.00188	33.74 mg/kg	0.331	0.98%

Sequence No.: 17
Sample ID: 0305007-36
Analyst:
Sample Wt: 0.5559 g
Dilution:

Autosampler Location: 47
Date Collected: 8/19/03 3:20:35 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:55:09 PM,

Mean Data: 0305007-36

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	156730.1						2982.25	1.90%
Ag 328.068†	-1.2	0.00254	mg/L	0.001430	0.4561	mg/kg	0.25727	56.40%
Ag 338.289†	-38.2	-0.00426	mg/L	0.003694	-0.7663	mg/kg	0.66456	86.73%
Al 308.215†	5256.3	8.434	mg/L	0.0742	1517	mg/kg	13.4	0.88%
Al 394.401†	7330.3	8.793	mg/L	0.0900	1582	mg/kg	16.2	1.02%
Al 396.153†	16456.8	8.948	mg/L	0.0834	1610	mg/kg	15.0	0.93%
As 188.979†	3.2	0.3751	mg/L	0.11346	67.48	mg/kg	20.411	30.25%
As 193.696†	1.8	0.4147	mg/L	0.32896	74.60	mg/kg	59.176	79.33%
As 197.197†	-5.1	-0.5627	mg/L	0.42092	-101.2	mg/kg	75.72	74.80%
B 208.889†	3.0	0.02736	mg/L	0.024019	4.922	mg/kg	4.3207	87.78%
B 249.677†	2.7	0.01018	mg/L	0.003681	1.832	mg/kg	0.6621	36.14%
B 249.772†	87.3	0.00568	mg/L	0.003049	1.022	mg/kg	0.5485	53.64%
Ba 233.527†	245.2	0.1174	mg/L	0.00117	21.13	mg/kg	0.211	1.00%
Ba 455.403†	16090.3	0.1390	mg/L	0.00101	25.00	mg/kg	0.183	0.73%
Ba 493.408†	15494.9	0.1364	mg/L	0.00093	24.53	mg/kg	0.168	0.68%
Be 234.861†	170.3	0.00166	mg/L	0.000948	0.2993	mg/kg	0.17045	56.94%
Be 313.042†	81.6	0.00098	mg/L	0.000116	0.1771	mg/kg	0.02094	11.82%
Be 313.107†	32.6	0.00092	mg/L	0.000033	0.1650	mg/kg	0.00597	3.62%
Ca 315.887†	260781.0	141.9	mg/L	1.19	25530	mg/kg	214.4	0.84%
Ca 317.933†	246930.5	131.4	mg/L	2.18	23630	mg/kg	391.4	1.66%
Cd 214.440†	17.8	0.01912	mg/L	0.000896	3.439	mg/kg	0.1612	4.69%
Cd 226.502†	10.7	0.01319	mg/L	0.004733	2.373	mg/kg	0.8513	35.87%
Cd 228.802†	10.5	0.01159	mg/L	0.007221	2.086	mg/kg	1.2989	62.28%
Ce 413.380†	86.2	0.04881	mg/L	0.033612	8.780	mg/kg	6.0463	68.86%
Ce 413.764†	95.9	0.07080	mg/L	0.014368	12.74	mg/kg	2.585	20.29%
Ce 418.660†	106.3	0.06431	mg/L	0.009224	11.57	mg/kg	1.659	14.34%
Co 228.616†	13.8	0.02347	mg/L	0.004505	4.222	mg/kg	0.8105	19.19%
Co 230.786†	17.5	0.02367	mg/L	0.005100	4.257	mg/kg	0.9174	21.55%
Co 238.892†	138.0	0.01567	mg/L	0.040109	2.819	mg/kg	7.2151	255.92%
Cr 205.560†	34.9	0.2767	mg/L	0.01180	49.77	mg/kg	2.123	4.27%
Cr 267.716†	222.6	0.2749	mg/L	0.00163	49.45	mg/kg	0.293	0.59%
Cr 283.563†	1477.2	0.2683	mg/L	0.00698	48.26	mg/kg	1.255	2.60%
Cu 224.700†	103.3	0.3793	mg/L	0.01361	68.24	mg/kg	2.449	3.59%
Cu 324.752†	2286.3	0.3820	mg/L	0.00813	68.72	mg/kg	1.463	2.13%
Cu 327.393†	1032.5	0.3879	mg/L	0.00354	69.78	mg/kg	0.638	0.91%
Fe 238.204†	223979.9	147.3	mg/L	1.27	26500	mg/kg	229.1	0.86%
Fe 239.562†	128020.3	146.1	mg/L	1.05	26290	mg/kg	189.4	0.72%
Fe 259.939†	422714.2	145.7	mg/L	2.35	26200	mg/kg	422.4	1.61%
Fe 273.955†	69448.7	162.4	mg/L	1.51	29210	mg/kg	270.9	0.93%
K 766.490†	1073.0	0.8022	mg/L	0.02561	144.3	mg/kg	4.61	3.19%
Li 610.362†	1807.6	0.2842	mg/L	0.13880	51.13	mg/kg	24.969	48.83%
Li 670.784†	279.2	0.00913	mg/L	0.002321	1.642	mg/kg	0.4176	25.43%
Mg 279.077†	23110.6	73.79	mg/L	0.651	13270	mg/kg	117.1	0.88%
Mg 280.271†	3177229.9	67.06	mg/L	1.149	12060	mg/kg	206.7	1.71%
Mg 285.213†	275280.9	68.76	mg/L	1.052	12370	mg/kg	189.3	1.53%
Mn 257.610†	14791.4	1.258	mg/L	0.0070	226.3	mg/kg	1.26	0.56%
Mn 259.372†	15578.6	1.252	mg/L	0.0093	225.2	mg/kg	1.68	0.75%
Mn 260.568†	9356.9	1.272	mg/L	0.0120	228.9	mg/kg	2.17	0.95%
Mo 202.031†	9.3	0.8693	mg/L	0.18449	156.4	mg/kg	33.19	21.22%
Mo 203.845†	4.2	0.1270	mg/L	0.03784	22.85	mg/kg	6.808	29.79%
Mo 204.597†	2.1	0.03414	mg/L	0.021223	6.141	mg/kg	3.8177	62.16%
Na 588.995†	2012.8	0.3456	mg/L	0.05511	62.17	mg/kg	9.915	15.95%
Na 589.592†	1835.4	0.4703	mg/L	0.03149	84.61	mg/kg	5.664	6.69%
Ni 221.648†	13.5	0.1785	mg/L	0.02046	32.11	mg/kg	3.681	11.46%
Ni 231.604†	51.5	0.1765	mg/L	0.00741	31.74	mg/kg	1.332	4.20%
Ni 232.003†	32.6	0.1786	mg/L	0.02840	32.13	mg/kg	5.109	15.90%
Pb 217.000†	66.8	2.950	mg/L	0.1528	530.6	mg/kg	27.48	5.18%
Pb 220.353†	129.2	2.944	mg/L	0.0797	529.6	mg/kg	14.34	2.71%
Sb 206.836†	3.1	0.1219	mg/L	0.04490	21.92	mg/kg	8.077	36.84%
Sb 217.582†	-1.0	-0.06083	mg/L	0.064607	-10.94	mg/kg	11.622	106.21%
Sb 231.146†	2.0	0.08638	mg/L	0.105524	15.54	mg/kg	18.983	122.16%
Se 196.026†	-1.8	-0.2756	mg/L	0.10161	-49.58	mg/kg	18.279	36.87%
Se 203.985†	2.6	0.2421	mg/L	0.42183	43.56	mg/kg	75.882	174.22%
Sn 189.927†	3.7	0.4254	mg/L	0.15925	76.52	mg/kg	28.647	37.44%
Sn 235.485†	1989.3	-4.477	mg/L	0.3752	-805.3	mg/kg	67.50	8.38%
Sn 283.998†	31.8	0.1430	mg/L	0.02228	25.73	mg/kg	4.007	15.58%
Sr 407.771†	22349.3	0.06802	mg/L	0.000190	12.24	mg/kg	0.034	0.28%
Sr 421.552†	10122.0	0.06849	mg/L	0.000318	12.32	mg/kg	0.057	0.46%
Sr 460.733†	61.0	0.02035	mg/L	0.019412	3.660	mg/kg	3.4920	95.40%
Ti 334.940†	10823.2	0.5497	mg/L	0.00456	98.88	mg/kg	0.820	0.83%

Ti 336.121†	7675.8	0.5495	mg/L	0.00515	98.84	mg/kg	0.926	0.94%
Ti 337.279†	3985.9	0.5465	mg/L	0.00292	98.31	mg/kg	0.526	0.53%
Tl 190.801†	-0.9	-0.1631	mg/L	0.43057	-29.34	mg/kg	77.454	263.98%
Tl 276.787†	283.6	1.290	mg/L	0.2900	232.1	mg/kg	52.17	22.48%
Tl 351.924†	-1.3	-0.01827	mg/L	0.042548	-3.286	mg/kg	7.6539	232.94%
V 290.880†	108.5	0.04768	mg/L	0.004396	8.577	mg/kg	0.7907	9.22%
V 309.310†	1998.9	0.06950	mg/L	0.001666	12.50	mg/kg	0.300	2.40%
V 310.230†	436.3	0.05869	mg/L	0.005956	10.56	mg/kg	1.071	10.15%
Zn 202.548†	814.9	3.017	mg/L	0.0804	542.7	mg/kg	14.47	2.67%
Zn 206.200†	938.0	3.083	mg/L	0.0473	554.6	mg/kg	8.52	1.54%
Zn 213.857†	1500.0	3.158	mg/L	0.0486	568.1	mg/kg	8.75	1.54%

Sequence No.: 18
Sample ID: 0305007-37
Analyst:
Sample Wt: 0.5238 g
Dilution:

Autosampler Location: 49
Date Collected: 8/19/03 3:24:23 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:55:16 PM,

Mean Data: 0305007-37

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	156662.0						3421.17	2.18%
Ag 328.068†	-5.4	0.00134	mg/L	0.001473	0.2557	mg/kg	0.28116	109.97%
Ag 338.289†	-19.4	-0.00196	mg/L	0.000826	-0.3735	mg/kg	0.15772	42.23%
Al 308.215†	5116.2	8.208	mg/L	0.0782	1567	mg/kg	14.9	0.95%
Al 394.401†	7031.8	8.428	mg/L	0.0482	1609	mg/kg	9.2	0.57%
Al 396.153†	15846.0	8.615	mg/L	0.0317	1645	mg/kg	6.0	0.37%
As 188.979†	4.1	0.5040	mg/L	0.11257	96.23	mg/kg	21.491	22.33%
As 193.696†	-0.4	-0.03619	mg/L	0.122179	-6.910	mg/kg	23.3255	337.58%
As 197.197†	-4.1	-0.4126	mg/L	0.18756	-78.77	mg/kg	35.808	45.46%
B 208.889†	3.1	0.03343	mg/L	0.024327	6.383	mg/kg	4.6444	72.76%
B 249.677†	3.4	0.01000	mg/L	0.001008	1.909	mg/kg	0.1925	10.08%
B 249.772†	54.3	0.00860	mg/L	0.003661	1.642	mg/kg	0.6989	42.55%
Ba 233.527†	110.7	0.05140	mg/L	0.001067	9.813	mg/kg	0.2037	2.08%
Ba 455.403†	7002.7	0.06032	mg/L	0.000280	11.52	mg/kg	0.053	0.46%
Ba 493.408†	6698.2	0.05864	mg/L	0.000520	11.20	mg/kg	0.099	0.89%
Be 234.861†	93.2	0.00061	mg/L	0.000215	0.1163	mg/kg	0.04114	35.38%
Be 313.042†	61.4	0.00070	mg/L	0.000081	0.1345	mg/kg	0.01549	11.51%
Be 313.107†	28.2	0.00079	mg/L	0.000059	0.1516	mg/kg	0.01123	7.41%
Ca 315.887†	241337.5	131.3	mg/L	0.61	25070	mg/kg	117.2	0.47%
Ca 317.933†	229953.8	122.3	mg/L	0.61	23360	mg/kg	116.1	0.50%
Cd 214.440†	6.7	0.00655	mg/L	0.002372	1.250	mg/kg	0.4528	36.21%
Cd 226.502†	4.5	0.00607	mg/L	0.003132	1.158	mg/kg	0.5980	51.64%
Cd 228.802†	6.6	0.01082	mg/L	0.001433	2.066	mg/kg	0.2735	13.24%
Ce 413.380†	68.4	0.04577	mg/L	0.006747	8.738	mg/kg	1.2880	14.74%
Ce 413.764†	82.0	0.06239	mg/L	0.016108	11.91	mg/kg	3.075	25.82%
Ce 418.660†	113.4	0.07155	mg/L	0.005642	13.66	mg/kg	1.077	7.89%
Co 228.616†	11.9	0.02109	mg/L	0.002579	4.027	mg/kg	0.4924	12.23%
Co 230.786†	10.0	0.01319	mg/L	0.004601	2.518	mg/kg	0.8784	34.89%
Co 238.892†	92.2	0.03603	mg/L	0.038880	6.879	mg/kg	7.4226	107.90%
Cr 205.560†	15.2	0.1198	mg/L	0.01159	22.88	mg/kg	2.212	9.67%
Cr 267.716†	92.1	0.1141	mg/L	0.00574	21.78	mg/kg	1.096	5.03%
Cr 283.563†	639.8	0.1067	mg/L	0.00287	20.38	mg/kg	0.549	2.69%
Cu 224.700†	43.9	0.1569	mg/L	0.00891	29.95	mg/kg	1.700	5.68%
Cu 324.752†	910.4	0.1511	mg/L	0.00407	28.85	mg/kg	0.777	2.69%
Cu 327.393†	419.9	0.1556	mg/L	0.00332	29.70	mg/kg	0.634	2.13%
Fe 238.204†	128193.7	84.32	mg/L	0.390	16100	mg/kg	74.4	0.46%
Fe 239.562†	73009.6	83.34	mg/L	0.355	15910	mg/kg	67.7	0.43%
Fe 259.939†	244054.3	84.10	mg/L	0.324	16060	mg/kg	61.8	0.38%
Fe 273.955†	39525.1	92.42	mg/L	0.373	17640	mg/kg	71.2	0.40%
K 766.490†	1055.2	0.7889	mg/L	0.03649	150.6	mg/kg	6.97	4.63%
Li 610.362†	1823.0	0.2970	mg/L	0.18433	56.71	mg/kg	35.190	62.06%
Li 670.784†	265.5	0.00848	mg/L	0.001284	1.619	mg/kg	0.2451	15.14%
Mg 279.077†	21998.9	70.26	mg/L	0.670	13410	mg/kg	128.0	0.95%
Mg 280.271†	3093120.1	65.29	mg/L	1.885	12460	mg/kg	359.9	2.89%
Mg 285.213†	267993.7	66.95	mg/L	1.945	12780	mg/kg	371.4	2.91%
Mn 257.610†	11163.2	0.9495	mg/L	0.00332	181.3	mg/kg	0.63	0.35%
Mn 259.372†	11343.9	0.9403	mg/L	0.00368	179.5	mg/kg	0.70	0.39%
Mn 260.568†	7032.4	0.9575	mg/L	0.00432	182.8	mg/kg	0.82	0.45%

Mo 202.031†	7.6	0.6888 mg/L	0.10850	131.5 mg/kg	20.71	15.75%
Mo 203.845†	4.4	0.1456 mg/L	0.08023	27.79 mg/kg	15.318	55.12%
Mo 204.597†	2.5	0.04256 mg/L	0.028375	8.126 mg/kg	5.4171	66.67%
Na 588.995†	1397.2	0.2399 mg/L	0.08086	45.80 mg/kg	15.437	33.70%
Na 589.592†	1452.8	0.3723 mg/L	0.02224	71.07 mg/kg	4.247	5.97%
Ni 221.648†	7.4	0.1013 mg/L	0.01759	19.34 mg/kg	3.358	17.36%
Ni 231.604†	26.4	0.09034 mg/L	0.005426	17.25 mg/kg	1.036	6.01%
Ni 232.003†	15.3	0.08685 mg/L	0.022530	16.58 mg/kg	4.301	25.94%
Pb 217.000†	24.9	1.035 mg/L	0.0856	197.5 mg/kg	16.35	8.28%
Pb 220.353†	42.2	0.9341 mg/L	0.05365	178.3 mg/kg	10.24	5.74%
Sb 206.836†	2.7	0.1042 mg/L	0.04306	19.89 mg/kg	8.220	41.33%
Sb 217.582†	-1.4	-0.06013 mg/L	0.117969	-11.48 mg/kg	22.522	196.18%
Sb 231.146†	-0.9	-0.05135 mg/L	0.044596	-9.804 mg/kg	8.5140	86.84%
Se 196.026†	-2.6	-0.3794 mg/L	0.31316	-72.43 mg/kg	59.786	82.55%
Se 203.985†	-0.1	-0.07542 mg/L	0.546000	-14.40 mg/kg	104.238	723.95%
Sn 189.927†	3.8	0.4400 mg/L	0.09798	84.00 mg/kg	18.706	22.27%
Sn 235.485†	1138.5	-2.381 mg/L	0.3230	-454.5 mg/kg	61.66	13.57%
Sn 283.998†	-12.4	0.02705 mg/L	0.026793	5.163 mg/kg	5.1151	99.07%
Sr 407.771†	16435.8	0.04937 mg/L	0.000209	9.426 mg/kg	0.0398	0.42%
Sr 421.552†	7420.6	0.04960 mg/L	0.000111	9.470 mg/kg	0.0211	0.22%
Sr 460.733†	26.8	0.00457 mg/L	0.048704	0.8730 mg/kg	9.29827	>999.9%
Ti 334.940†	9505.9	0.4830 mg/L	0.00376	92.20 mg/kg	0.717	0.78%
Ti 336.121†	6620.5	0.4737 mg/L	0.00340	90.44 mg/kg	0.648	0.72%
Ti 337.279†	3463.9	0.4750 mg/L	0.00756	90.68 mg/kg	1.443	1.59%
Tl 190.801†	-0.4	-0.06267 mg/L	0.158847	-11.96 mg/kg	30.326	253.47%
Tl 276.787†	285.8	1.428 mg/L	0.0713	272.6 mg/kg	13.62	5.00%
Tl 351.924†	-6.0	-0.04633 mg/L	0.016174	-8.845 mg/kg	3.0879	34.91%
V 290.880†	50.4	0.03025 mg/L	0.003712	5.775 mg/kg	0.7086	12.27%
V 309.310†	1840.5	0.05286 mg/L	0.008280	10.09 mg/kg	1.581	15.66%
V 310.230†	312.8	0.04177 mg/L	0.002290	7.974 mg/kg	0.4373	5.48%
Zn 202.548†	439.3	1.625 mg/L	0.0149	310.2 mg/kg	2.85	0.92%
Zn 206.200†	513.0	1.686 mg/L	0.0491	321.9 mg/kg	9.37	2.91%
Zn 213.857†	810.5	1.703 mg/L	0.0353	325.1 mg/kg	6.73	2.07%

Sequence No.: 19
Sample ID: 0305007-38
Analyst:
Sample Wt: 0.6063 g
Dilution:

Autosampler Location: 51
Date Collected: 8/19/03 3:28:11 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:55:22 PM,

Mean Data: 0305007-38

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156901.2						1244.51	0.79%
Ag 328.068†	5.5	0.00382	mg/L	0.001805	0.6302	mg/kg	0.29765	47.23%
Ag 338.289†	-24.2	-0.00027	mg/L	0.001809	-0.04406	mg/kg	0.298324	677.08%
Al 308.215†	5417.0	8.691	mg/L	0.0754	1434	mg/kg	12.4	0.87%
Al 394.401†	7519.7	9.020	mg/L	0.0652	1488	mg/kg	10.7	0.72%
Al 396.153†	16906.3	9.192	mg/L	0.0593	1516	mg/kg	9.8	0.64%
As 188.979†	2.6	0.2840	mg/L	0.08357	46.85	mg/kg	13.784	29.42%
As 193.696†	1.0	0.2430	mg/L	0.19376	40.09	mg/kg	31.957	79.72%
As 197.197†	-3.0	-0.1767	mg/L	0.24311	-29.14	mg/kg	40.098	137.58%
B 208.889†	5.4	0.06960	mg/L	0.034723	11.48	mg/kg	5.727	49.89%
B 249.677†	7.0	0.01967	mg/L	0.001432	3.244	mg/kg	0.2363	7.28%
B 249.772†	84.6	0.01103	mg/L	0.001720	1.819	mg/kg	0.2837	15.60%
Ba 233.527†	223.3	0.1071	mg/L	0.00091	17.67	mg/kg	0.150	0.85%
Ba 455.403†	14634.2	0.1264	mg/L	0.00086	20.84	mg/kg	0.143	0.68%
Ba 493.408†	14138.2	0.1244	mg/L	0.00071	20.52	mg/kg	0.117	0.57%
Be 234.861†	149.5	0.00113	mg/L	0.001106	0.1860	mg/kg	0.18235	98.06%
Be 313.042†	78.5	0.00095	mg/L	0.000118	0.1566	mg/kg	0.01947	12.43%
Be 313.107†	30.2	0.00085	mg/L	0.000022	0.1407	mg/kg	0.00371	2.64%
Ca 315.887†	264513.0	143.9	mg/L	0.41	23740	mg/kg	67.7	0.29%
Ca 317.933†	256397.0	136.4	mg/L	3.19	22500	mg/kg	526.4	2.34%
Cd 214.440†	15.8	0.01685	mg/L	0.002568	2.779	mg/kg	0.4236	15.25%
Cd 226.502†	8.9	0.01091	mg/L	0.001067	1.800	mg/kg	0.1760	9.78%
Cd 228.802†	11.0	0.01411	mg/L	0.003100	2.327	mg/kg	0.5114	21.98%
Ce 413.380†	56.0	0.02414	mg/L	0.014975	3.982	mg/kg	2.4700	62.04%
Ce 413.764†	80.3	0.05831	mg/L	0.005944	9.618	mg/kg	0.9804	10.19%
Ce 418.660†	103.6	0.06327	mg/L	0.011106	10.44	mg/kg	1.832	17.55%

Co 228.616†	18.4	0.03201 mg/L	0.002978	5.279 mg/kg	0.4912	9.31%
Co 230.786†	24.2	0.03523 mg/L	0.008608	5.810 mg/kg	1.4197	24.43%
Co 238.892†	140.2	0.04467 mg/L	0.038168	7.368 mg/kg	6.2953	85.44%
Cr 205.560†	42.6	0.3374 mg/L	0.01613	55.65 mg/kg	2.660	4.78%
Cr 267.716†	280.9	0.3456 mg/L	0.00172	57.01 mg/kg	0.283	0.50%
Cr 283.563†	1764.9	0.3421 mg/L	0.00376	56.43 mg/kg	0.620	1.10%
Cu 224.700†	83.2	0.3037 mg/L	0.00238	50.08 mg/kg	0.392	0.78%
Cu 324.752†	1852.9	0.3089 mg/L	0.00439	50.96 mg/kg	0.724	1.42%
Cu 327.393†	829.3	0.3106 mg/L	0.00301	51.24 mg/kg	0.497	0.97%
Fe 238.204†	202911.6	133.5 mg/L	0.44	22010 mg/kg	71.9	0.33%
Fe 239.562†	115594.1	131.9 mg/L	0.35	21760 mg/kg	57.4	0.26%
Fe 259.939†	392776.1	135.3 mg/L	3.23	22320 mg/kg	532.5	2.39%
Fe 273.955†	62822.3	146.9 mg/L	0.28	24230 mg/kg	45.6	0.19%
K 766.490†	1209.3	0.9041 mg/L	0.08642	149.1 mg/kg	14.25	9.56%
Li 610.362†	1456.2	0.2198 mg/L	0.07421	36.26 mg/kg	12.241	33.76%
Li 670.784†	252.9	0.00837 mg/L	0.002668	1.381 mg/kg	0.4400	31.87%
Mg 279.077†	22284.1	71.15 mg/L	0.287	11740 mg/kg	47.3	0.40%
Mg 280.271†	3139636.6	66.27 mg/L	1.427	10930 mg/kg	235.4	2.15%
Mg 285.213†	271654.2	67.86 mg/L	1.323	11190 mg/kg	218.2	1.95%
Mn 257.610†	14852.2	1.263 mg/L	0.0066	208.4 mg/kg	1.09	0.52%
Mn 259.372†	15490.0	1.261 mg/L	0.0040	208.0 mg/kg	0.65	0.31%
Mn 260.568†	9383.9	1.277 mg/L	0.0094	210.6 mg/kg	1.54	0.73%
Mo 202.031†	9.7	0.9199 mg/L	0.16246	151.7 mg/kg	26.79	17.66%
Mo 203.845†	4.3	0.1328 mg/L	0.07252	21.91 mg/kg	11.960	54.59%
Mo 204.597†	3.5	0.05849 mg/L	0.029626	9.647 mg/kg	4.8864	50.65%
Na 588.995†	2115.0	0.3632 mg/L	0.02364	59.90 mg/kg	3.899	6.51%
Na 589.592†	1798.6	0.4609 mg/L	0.01781	76.02 mg/kg	2.937	3.86%
Ni 221.648†	18.4	0.2401 mg/L	0.02273	39.61 mg/kg	3.749	9.47%
Ni 231.604†	59.7	0.2051 mg/L	0.00420	33.84 mg/kg	0.693	2.05%
Ni 232.003†	34.2	0.1853 mg/L	0.01090	30.57 mg/kg	1.798	5.88%
Pb 217.000†	38.7	1.630 mg/L	0.1182	268.8 mg/kg	19.50	7.25%
Pb 220.353†	71.9	1.625 mg/L	0.0258	268.0 mg/kg	4.25	1.59%
Sb 206.836†	0.4	-0.00277 mg/L	0.013173	-0.4570 mg/kg	2.17260	475.38%
Sb 217.582†	-2.5	-0.1354 mg/L	0.05486	-22.33 mg/kg	9.049	40.52%
Sb 231.146†	0.6	0.01988 mg/L	0.145520	3.279 mg/kg	24.0013	731.90%
Se 196.026†	-2.7	-0.3980 mg/L	0.17852	-65.64 mg/kg	29.443	44.85%
Se 203.985†	1.2	0.06212 mg/L	0.435281	10.25 mg/kg	71.793	700.76%
Sn 189.927†	2.8	0.3114 mg/L	0.24750	51.36 mg/kg	40.821	79.48%
Sn 235.485†	1807.9	-3.830 mg/L	0.7095	-631.7 mg/kg	117.02	18.52%
Sn 283.998†	25.0	0.08293 mg/L	0.009704	13.68 mg/kg	1.600	11.70%
Sr 407.771†	21867.6	0.06643 mg/L	0.000366	10.96 mg/kg	0.060	0.55%
Sr 421.552†	9900.8	0.06689 mg/L	0.000434	11.03 mg/kg	0.072	0.65%
Sr 460.733†	108.5	0.04385 mg/L	0.019742	7.233 mg/kg	3.2562	45.02%
Ti 334.940†	10448.7	0.5308 mg/L	0.00351	87.55 mg/kg	0.578	0.66%
Ti 336.121†	7351.2	0.5260 mg/L	0.00825	86.76 mg/kg	1.361	1.57%
Ti 337.279†	3830.7	0.5252 mg/L	0.00726	86.62 mg/kg	1.197	1.38%
Tl 190.801†	-1.0	-0.1789 mg/L	0.22772	-29.51 mg/kg	37.559	127.29%
Tl 276.787†	267.2	1.181 mg/L	0.1149	194.8 mg/kg	18.96	9.73%
Tl 351.924†	-9.4	-0.07018 mg/L	0.048113	-11.57 mg/kg	7.935	68.56%
V 290.880†	48.2	0.02664 mg/L	0.002142	4.393 mg/kg	0.3532	8.04%
V 309.310†	1908.2	0.06312 mg/L	0.002576	10.41 mg/kg	0.425	4.08%
V 310.230†	328.0	0.04389 mg/L	0.001884	7.238 mg/kg	0.3108	4.29%
Zn 202.548†	656.5	2.430 mg/L	0.0337	400.7 mg/kg	5.57	1.39%
Zn 206.200†	762.5	2.507 mg/L	0.0362	413.4 mg/kg	5.97	1.44%
Zn 213.857†	1213.6	2.552 mg/L	0.0481	421.0 mg/kg	7.93	1.88%

Sequence No.: 20
Sample ID: 0305007-39
Analyst:
Sample Wt: 0.6045 g
Dilution:

Autosampler Location: 53
Date Collected: 8/19/03 3:32:00 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:55:29 PM,

Mean Data: 0305007-39

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	156157.7						2694.84	1.73%
Ag 328.068†	1.0	0.00277	mg/L	0.001745	0.4585	mg/kg	0.28870	62.97%
Ag 338.289†	-32.9	-0.00447	mg/L	0.002670	-0.7395	mg/kg	0.44169	59.73%
Al 308.215†	5638.7	9.051	mg/L	0.0596	1497	mg/kg	9.9	0.66%

Al 394.401†	7941.1	9.509 mg/L	0.0782	1573 mg/kg	12.9	0.82%
Al 396.153†	17631.6	9.591 mg/L	0.0910	1587 mg/kg	15.1	0.95%
As 188.979†	2.2	0.2381 mg/L	0.09088	39.38 mg/kg	15.034	38.17%
As 193.696†	0.9	0.2202 mg/L	0.21367	36.43 mg/kg	35.347	97.04%
As 197.197†	-4.7	-0.5568 mg/L	0.22666	-92.11 mg/kg	37.495	40.71%
B 208.889†	6.1	0.08544 mg/L	0.017367	14.13 mg/kg	2.873	20.33%
B 249.677†	9.2	0.02448 mg/L	0.003895	4.049 mg/kg	0.6443	15.91%
B 249.772†	79.1	0.01569 mg/L	0.002934	2.595 mg/kg	0.4854	18.70%
Ba 233.527†	194.4	0.09333 mg/L	0.002090	15.44 mg/kg	0.346	2.24%
Ba 455.403†	12761.5	0.1102 mg/L	0.00080	18.24 mg/kg	0.132	0.73%
Ba 493.408†	12158.8	0.1070 mg/L	0.00075	17.71 mg/kg	0.124	0.70%
Be 234.861†	116.8	0.00001 mg/L	0.001316	0.00132 mg/kg	0.217638	>999.9%
Be 313.042†	64.1	0.00077 mg/L	0.000029	0.1275 mg/kg	0.00473	3.71%
Be 313.107†	28.7	0.00080 mg/L	0.000007	0.1331 mg/kg	0.00123	0.93%
Ca 315.887†	204183.6	111.1 mg/L	0.87	18380 mg/kg	143.7	0.78%
Ca 317.933†	194564.8	103.5 mg/L	0.91	17120 mg/kg	150.3	0.88%
Cd 214.440†	11.5	0.01214 mg/L	0.001920	2.008 mg/kg	0.3176	15.81%
Cd 226.502†	9.7	0.01296 mg/L	0.005318	2.144 mg/kg	0.8798	41.04%
Cd 228.802†	9.4	0.01187 mg/L	0.002963	1.963 mg/kg	0.4902	24.97%
Ce 413.380†	79.7	0.04940 mg/L	0.005501	8.172 mg/kg	0.9101	11.14%
Ce 413.764†	90.8	0.06863 mg/L	0.006102	11.35 mg/kg	1.009	8.89%
Ce 418.660†	122.2	0.07543 mg/L	0.014281	12.48 mg/kg	2.362	18.93%
Co 228.616†	13.7	0.02354 mg/L	0.004150	3.894 mg/kg	0.6865	17.63%
Co 230.786†	12.1	0.01578 mg/L	0.001943	2.610 mg/kg	0.3214	12.31%
Co 238.892†	111.8	0.02058 mg/L	0.013541	3.405 mg/kg	2.2400	65.79%
Cr 205.560†	26.8	0.2124 mg/L	0.00354	35.13 mg/kg	0.585	1.67%
Cr 267.716†	177.1	0.2187 mg/L	0.00777	36.18 mg/kg	1.286	3.55%
Cr 283.563†	1170.4	0.2135 mg/L	0.00407	35.32 mg/kg	0.673	1.91%
Cu 224.700†	62.2	0.2251 mg/L	0.00617	37.24 mg/kg	1.021	2.74%
Cu 324.752†	1334.0	0.2220 mg/L	0.00377	36.73 mg/kg	0.624	1.70%
Cu 327.393†	603.4	0.2256 mg/L	0.00327	37.31 mg/kg	0.542	1.45%
Fe 238.204†	175073.7	115.1 mg/L	0.90	19050 mg/kg	148.3	0.78%
Fe 239.562†	99960.2	114.1 mg/L	0.87	18870 mg/kg	144.6	0.77%
Fe 259.939†	335863.0	115.7 mg/L	2.17	19150 mg/kg	358.3	1.87%
Fe 273.955†	54139.4	126.6 mg/L	0.95	20940 mg/kg	157.2	0.75%
K 766.490†	1526.9	1.142 mg/L	0.0772	188.8 mg/kg	12.76	6.76%
Li 610.362†	1856.9	0.3058 mg/L	0.12985	50.58 mg/kg	21.481	42.46%
Li 670.784†	238.8	0.00770 mg/L	0.000882	1.273 mg/kg	0.1459	11.46%
Mg 279.077†	18159.2	57.98 mg/L	0.613	9591 mg/kg	101.5	1.06%
Mg 280.271†	2576495.0	54.38 mg/L	1.027	8996 mg/kg	169.9	1.89%
Mg 285.213†	218776.1	54.65 mg/L	0.590	9041 mg/kg	97.6	1.08%
Mn 257.610†	11016.0	0.9366 mg/L	0.00679	154.9 mg/kg	1.12	0.72%
Mn 259.372†	11645.7	0.9297 mg/L	0.01084	153.8 mg/kg	1.79	1.17%
Mn 260.568†	6970.5	0.9475 mg/L	0.00855	156.7 mg/kg	1.41	0.90%
Mo 202.031†	8.0	0.7722 mg/L	0.04380	127.7 mg/kg	7.25	5.67%
Mo 203.845†	6.3	0.1996 mg/L	0.07762	33.02 mg/kg	12.841	38.89%
Mo 204.597†	3.6	0.06111 mg/L	0.043809	10.11 mg/kg	7.247	71.69%
Na 588.995†	2000.3	0.3435 mg/L	0.06214	56.82 mg/kg	10.279	18.09%
Na 589.592†	1793.2	0.4595 mg/L	0.02323	76.02 mg/kg	3.843	5.06%
Ni 221.648†	11.2	0.1477 mg/L	0.02683	24.44 mg/kg	4.439	18.16%
Ni 231.604†	39.8	0.1361 mg/L	0.00523	22.52 mg/kg	0.865	3.84%
Ni 232.003†	21.9	0.1187 mg/L	0.00772	19.64 mg/kg	1.277	6.50%
Pb 217.000†	25.3	1.021 mg/L	0.0326	168.8 mg/kg	5.39	3.19%
Pb 220.353†	45.7	1.032 mg/L	0.0287	170.8 mg/kg	4.74	2.78%
Sb 206.836†	2.2	0.08551 mg/L	0.101860	14.15 mg/kg	16.850	119.12%
Sb 217.582†	-0.8	-0.05144 mg/L	0.084692	-8.509 mg/kg	14.0102	164.65%
Sb 231.146†	-0.0	-0.01231 mg/L	0.043059	-2.037 mg/kg	7.1231	349.67%
Se 196.026†	-3.2	-0.4729 mg/L	0.22234	-78.23 mg/kg	36.781	47.02%
Se 203.985†	0.5	-0.01602 mg/L	0.161675	-2.650 mg/kg	26.7453	>999.9%
Sn 189.927†	3.5	0.4111 mg/L	0.14228	68.00 mg/kg	23.536	34.61%
Sn 235.485†	1558.4	-3.289 mg/L	0.3362	-544.1 mg/kg	55.62	10.22%
Sn 283.998†	16.4	0.08936 mg/L	0.035150	14.78 mg/kg	5.815	39.34%
Sr 407.771†	16082.3	0.04873 mg/L	0.000323	8.061 mg/kg	0.0534	0.66%
Sr 421.552†	7249.4	0.04880 mg/L	0.000476	8.073 mg/kg	0.0787	0.97%
Sr 460.733†	88.6	0.03598 mg/L	0.002798	5.952 mg/kg	0.4629	7.78%
Ti 334.940†	11012.9	0.5584 mg/L	0.00617	92.37 mg/kg	1.021	1.11%
Ti 336.121†	7737.9	0.5547 mg/L	0.00284	91.76 mg/kg	0.470	0.51%
Ti 337.279†	4007.6	0.5497 mg/L	0.00656	90.93 mg/kg	1.085	1.19%
Tl 190.801†	-0.5	-0.08575 mg/L	0.221979	-14.18 mg/kg	36.721	258.88%
Tl 276.787†	233.9	1.134 mg/L	0.0906	187.5 mg/kg	14.99	7.99%
Tl 351.924†	-8.0	-0.06023 mg/L	0.022837	-9.963 mg/kg	3.7778	37.92%

V 290.880†	74.1	0.03357 mg/L	0.003675	5.553 mg/kg	0.6080	10.95%
V 309.310†	1575.1	0.05350 mg/L	0.002662	8.850 mg/kg	0.4403	4.98%
V 310.230†	312.3	0.04190 mg/L	0.004100	6.932 mg/kg	0.6783	9.78%
Zn 202.548†	598.0	2.214 mg/L	0.0273	366.3 mg/kg	4.52	1.23%
Zn 206.200†	692.8	2.277 mg/L	0.0415	376.7 mg/kg	6.86	1.82%
Zn 213.857†	1094.0	2.302 mg/L	0.0428	380.9 mg/kg	7.09	1.86%

Sequence No.: 21 **Autosampler Location: 55**
Sample ID: 0305007-40 **Date Collected: 8/19/03 3:35:51 PM**
Analyst:
Sample Wt: 0.5474 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Reprocessed on 8/20/03 1:55:36 PM,**

Mean Data: 0305007-40

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155886.7						1587.13	1.02%
Ag 328.068†	-11.7	-0.00032	mg/L	0.000960	-0.05888	mg/kg	0.175412	297.89%
Ag 338.289†	-1.7	0.00048	mg/L	0.003707	0.08843	mg/kg	0.677125	765.73%
Al 308.215†	3768.1	6.041	mg/L	0.0546	1104	mg/kg	10.0	0.90%
Al 394.401†	5217.6	6.260	mg/L	0.0728	1144	mg/kg	13.3	1.16%
Al 396.153†	11782.8	6.402	mg/L	0.0306	1170	mg/kg	5.6	0.48%
As 188.979†	4.0	0.4975	mg/L	0.18661	90.88	mg/kg	34.089	37.51%
As 193.696†	-1.0	-0.1489	mg/L	0.08432	-27.20	mg/kg	15.403	56.62%
As 197.197†	-5.1	-0.6017	mg/L	0.52472	-109.9	mg/kg	95.86	87.21%
B 208.889†	3.1	0.03781	mg/L	0.037911	6.907	mg/kg	6.9257	100.27%
B 249.677†	3.8	0.00939	mg/L	0.008166	1.716	mg/kg	1.4917	86.92%
B 249.772†	27.9	0.01295	mg/L	0.002893	2.366	mg/kg	0.5286	22.34%
Ba 233.527†	47.9	0.02286	mg/L	0.001011	4.177	mg/kg	0.1847	4.42%
Ba 455.403†	3275.9	0.02808	mg/L	0.000244	5.131	mg/kg	0.0446	0.87%
Ba 493.408†	3127.8	0.02734	mg/L	0.000298	4.994	mg/kg	0.0544	1.09%
Be 234.861†	47.1	0.00133	mg/L	0.000491	0.2438	mg/kg	0.08978	36.83%
Be 313.042†	37.1	0.00038	mg/L	0.000080	0.06907	mg/kg	0.014548	21.06%
Be 313.107†	14.0	0.00039	mg/L	0.000241	0.07166	mg/kg	0.044017	61.43%
Ca 315.887†	231987.1	126.2	mg/L	0.53	23060	mg/kg	96.2	0.42%
Ca 317.933†	220922.6	117.5	mg/L	0.48	21470	mg/kg	88.1	0.41%
Cd 214.440†	2.0	0.00142	mg/L	0.002998	0.2588	mg/kg	0.54774	211.67%
Cd 226.502†	1.3	0.00397	mg/L	0.005040	0.7253	mg/kg	0.92066	126.93%
Cd 228.802†	-0.7	0.00170	mg/L	0.001926	0.3098	mg/kg	0.35187	113.56%
Ce 413.380†	41.9	0.03309	mg/L	0.013417	6.044	mg/kg	2.4511	40.55%
Ce 413.764†	73.2	0.05784	mg/L	0.015254	10.57	mg/kg	2.787	26.38%
Ce 418.660†	106.6	0.06960	mg/L	0.016306	12.71	mg/kg	2.979	23.43%
Co 228.616†	4.4	0.00823	mg/L	0.005494	1.504	mg/kg	1.0037	66.73%
Co 230.786†	4.3	0.00545	mg/L	0.006044	0.9964	mg/kg	1.10420	110.82%
Co 238.892†	29.7	0.00689	mg/L	0.003342	1.258	mg/kg	0.6106	48.55%
Cr 205.560†	5.5	0.04230	mg/L	0.010003	7.727	mg/kg	1.8274	23.65%
Cr 267.716†	38.0	0.04668	mg/L	0.003050	8.528	mg/kg	0.5572	6.53%
Cr 283.563†	248.3	0.04366	mg/L	0.001568	7.976	mg/kg	0.2865	3.59%
Cu 224.700†	9.7	0.03046	mg/L	0.001695	5.564	mg/kg	0.3097	5.57%
Cu 324.752†	135.5	0.02142	mg/L	0.000482	3.912	mg/kg	0.0881	2.25%
Cu 327.393†	81.0	0.02762	mg/L	0.002210	5.045	mg/kg	0.4037	8.00%
Fe 238.204†	45224.9	29.75	mg/L	0.150	5435	mg/kg	27.4	0.50%
Fe 239.562†	25618.5	29.25	mg/L	0.068	5343	mg/kg	12.5	0.23%
Fe 259.939†	86025.3	29.65	mg/L	0.055	5416	mg/kg	10.0	0.18%
Fe 273.955†	13871.0	32.44	mg/L	0.161	5926	mg/kg	29.5	0.50%
K 766.490†	1489.8	1.114	mg/L	0.0059	203.5	mg/kg	1.08	0.53%
Li 610.362†	1639.1	0.2696	mg/L	0.07218	49.24	mg/kg	13.186	26.78%
Li 670.784†	168.6	0.00560	mg/L	0.002636	1.023	mg/kg	0.4816	47.06%
Mg 279.077†	18595.3	59.40	mg/L	0.275	10850	mg/kg	50.2	0.46%
Mg 280.271†	2657745.7	56.10	mg/L	0.395	10250	mg/kg	72.1	0.70%
Mg 285.213†	224181.5	56.01	mg/L	0.260	10230	mg/kg	47.5	0.46%
Mn 257.610†	7149.6	0.6082	mg/L	0.00226	111.1	mg/kg	0.41	0.37%
Mn 259.372†	6997.9	0.6075	mg/L	0.00316	111.0	mg/kg	0.58	0.52%
Mn 260.568†	4502.9	0.6141	mg/L	0.00757	112.2	mg/kg	1.38	1.23%
Mo 202.031†	5.6	0.4892	mg/L	0.17936	89.38	mg/kg	32.765	36.66%
Mo 203.845†	3.5	0.1235	mg/L	0.04976	22.57	mg/kg	9.090	40.28%
Mo 204.597†	0.8	0.01392	mg/L	0.057190	2.542	mg/kg	10.4475	410.93%
Na 588.995†	2223.5	0.3818	mg/L	0.04684	69.75	mg/kg	8.556	12.27%
Na 589.592†	1789.8	0.4586	mg/L	0.01025	83.79	mg/kg	1.872	2.23%

Ni 221.648†	1.7	0.02959	mg/L	0.035844	5.405	mg/kg	6.5481 121.14%
Ni 231.604†	5.9	0.02008	mg/L	0.008270	3.667	mg/kg	1.5108 41.19%
Ni 232.003†	3.3	0.02216	mg/L	0.018759	4.048	mg/kg	3.4269 84.66%
Pb 217.000†	4.7	0.1401	mg/L	0.02831	25.59	mg/kg	5.173 20.21%
Pb 220.353†	8.1	0.1393	mg/L	0.01351	25.45	mg/kg	2.468 9.70%
Sb 206.836†	0.8	0.01981	mg/L	0.011397	3.620	mg/kg	2.0820 57.52%
Sb 217.582†	-1.8	-0.05665	mg/L	0.078680	-10.35	mg/kg	14.373 138.89%
Sb 231.146†	-0.6	-0.02467	mg/L	0.035785	-4.507	mg/kg	6.5373 145.04%
Se 196.026†	-4.3	-0.6160	mg/L	0.25097	-112.5	mg/kg	45.85 40.74%
Se 203.985†	2.0	0.2449	mg/L	0.25518	44.73	mg/kg	46.617 104.21%
Sn 189.927†	2.0	0.2159	mg/L	0.23804	39.45	mg/kg	43.485 110.24%
Sn 235.485†	402.5	-0.7583	mg/L	0.24260	-138.5	mg/kg	44.32 31.99%
Sn 283.998†	-30.2	-0.04353	mg/L	0.016943	-7.952	mg/kg	3.0952 38.93%
Sr 407.771†	16502.9	0.04966	mg/L	0.000154	9.072	mg/kg	0.0281 0.31%
Sr 421.552†	7442.6	0.04996	mg/L	0.000090	9.126	mg/kg	0.0164 0.18%
Sr 460.733†	35.1	0.00953	mg/L	0.047566	1.742	mg/kg	8.6894 498.94%
Ti 334.940†	7881.5	0.4009	mg/L	0.00368	73.24	mg/kg	0.673 0.92%
Ti 336.121†	5567.3	0.3980	mg/L	0.00118	72.71	mg/kg	0.216 0.30%
Ti 337.279†	2886.4	0.3958	mg/L	0.00289	72.31	mg/kg	0.528 0.73%
Tl 190.801†	-0.3	-0.00703	mg/L	0.402628	-1.285	mg/kg	73.5529 >999.9%
Tl 276.787†	232.6	1.135	mg/L	0.0328	207.4	mg/kg	5.98 2.89%
Tl 351.924†	-5.0	-0.03673	mg/L	0.029340	-6.709	mg/kg	5.3598 79.89%
V 290.880†	-18.3	0.00665	mg/L	0.002176	1.216	mg/kg	0.3976 32.70%
V 309.310†	1481.7	0.03132	mg/L	0.006014	5.722	mg/kg	1.0986 19.20%
V 310.230†	141.2	0.01837	mg/L	0.002157	3.356	mg/kg	0.3941 11.74%
Zn 202.548†	80.0	0.2934	mg/L	0.00450	53.59	mg/kg	0.821 1.53%
Zn 206.200†	100.3	0.3306	mg/L	0.00778	60.39	mg/kg	1.422 2.35%
Zn 213.857†	161.3	0.3329	mg/L	0.00170	60.81	mg/kg	0.311 0.51%

Sequence No.: 22 **Autosampler Location: 5**
Sample ID: wash **Date Collected: 8/19/03 3:39:43 PM**
Analyst:
Sample Wt: **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Reprocessed on 8/20/03 1:55:43 PM,**

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158022.4						2250.92	1.42%
Ag 328.068†	1.2	0.00024	mg/L	0.000417				175.40%
Ag 338.289†	0.6	0.00023	mg/L	0.001151				497.73%
Al 308.215†	-6.5	-0.01073	mg/L	0.008508				79.31%
Al 394.401†	0.5	0.00039	mg/L	0.003954				>999.9%
Al 396.153†	2.5	0.00071	mg/L	0.004842				680.84%
As 188.979†	0.0	0.00368	mg/L	0.123034				>999.9%
As 193.696†	0.1	0.02732	mg/L	0.168926				618.27%
As 197.197†	-0.1	-0.02349	mg/L	0.086088				366.51%
B 208.889†	1.2	0.02088	mg/L	0.012438				59.56%
B 249.677†	-4.4	-0.01028	mg/L	0.004232				41.18%
B 249.772†	-3.4	-0.00347	mg/L	0.000546				15.75%
Ba 233.527†	-0.1	-0.00002	mg/L	0.001606				>999.9%
Ba 455.403†	32.6	0.00028	mg/L	0.000059				21.12%
Ba 493.408†	15.3	0.00013	mg/L	0.000726				544.47%
Be 234.861†	-0.6	-0.00005	mg/L	0.000259				498.75%
Be 313.042†	1.0	0.00002	mg/L	0.000136				874.11%
Be 313.107†	0.0	0.00000	mg/L	0.000103				>999.9%
Ca 315.887†	82.0	0.04465	mg/L	0.013703				30.69%
Ca 317.933†	37.3	0.01983	mg/L	0.015196				76.64%
Cd 214.440†	2.9	0.00349	mg/L	0.000978				28.03%
Cd 226.502†	2.4	0.00459	mg/L	0.003264				71.06%
Cd 228.802†	-0.1	-0.00049	mg/L	0.002966				602.58%
Ce 413.380†	2.7	0.00242	mg/L	0.009796				404.75%
Ce 413.764†	18.0	0.01519	mg/L	0.003254				21.43%
Ce 418.660†	5.1	0.00330	mg/L	0.006448				195.13%
Co 228.616†	2.5	0.00456	mg/L	0.002082				45.70%
Co 230.786†	-1.2	-0.00195	mg/L	0.006003				308.07%
Co 238.892†	-3.5	-0.00707	mg/L	0.003036				42.96%
Cr 205.560†	-0.2	-0.00121	mg/L	0.016339				>999.9%
Cr 267.716†	4.4	0.00534	mg/L	0.001880				35.22%

Cr 283.563†	7.8	0.00178	mg/L	0.001470	82.73%
Cu 224.700†	-1.4	-0.00542	mg/L	0.005097	93.96%
Cu 324.752†	-6.1	-0.00104	mg/L	0.000342	33.02%
Cu 327.393†	6.9	0.00263	mg/L	0.000910	34.55%
Fe 238.204†	76.2	0.05014	mg/L	0.008300	16.55%
Fe 239.562†	38.3	0.04373	mg/L	0.006665	15.24%
Fe 259.939†	136.5	0.04705	mg/L	0.006867	14.59%
Fe 273.955†	22.0	0.05136	mg/L	0.001582	3.08%
K 766.490†	-62.0	-0.04638	mg/L	0.031241	67.35%
Li 610.362†	1398.5	0.2616	mg/L	0.12624	48.26%
Li 670.784†	-233.4	-0.00639	mg/L	0.001416	22.15%
Mg 279.077†	6.4	0.02038	mg/L	0.003033	14.88%
Mg 280.271†	1093.9	0.02310	mg/L	0.006060	26.23%
Mg 285.213†	101.9	0.02547	mg/L	0.005388	21.15%
Mn 257.610†	11.0	0.00093	mg/L	0.000308	32.96%
Mn 259.372†	11.8	0.00093	mg/L	0.000590	63.46%
Mn 260.568†	6.5	0.00090	mg/L	0.000329	36.55%
Mo 202.031†	-1.3	-0.1537	mg/L	0.18687	121.61%
Mo 203.845†	2.6	0.08803	mg/L	0.054995	62.47%
Mo 204.597†	1.1	0.01942	mg/L	0.023889	122.99%
Na 588.995†	-714.3	-0.1226	mg/L	0.05264	42.92%
Na 589.592†	-5.2	-0.00133	mg/L	0.027205	>999.9%
Ni 221.648†	0.5	0.00668	mg/L	0.020344	304.39%
Ni 231.604†	-0.6	-0.00202	mg/L	0.012162	601.21%
Ni 232.003†	-1.6	-0.00936	mg/L	0.009940	106.15%
Pb 217.000†	1.6	0.07762	mg/L	0.104730	134.92%
Pb 220.353†	-2.2	-0.05091	mg/L	0.042454	83.38%
Sb 206.836†	-0.5	-0.02408	mg/L	0.005844	24.27%
Sb 217.582†	0.9	0.04898	mg/L	0.047055	96.08%
Sb 231.146†	-1.4	-0.06937	mg/L	0.074835	107.88%
Se 196.026†	-2.5	-0.3533	mg/L	0.34468	97.56%
Se 203.985†	1.2	0.1648	mg/L	0.26632	161.60%
Sn 189.927†	1.1	0.1363	mg/L	0.11993	88.01%
Sn 235.485†	-0.5	-0.02915	mg/L	0.057082	195.79%
Sn 283.998†	-4.7	-0.01325	mg/L	0.008931	67.41%
Sr 407.771†	20.0	0.00006	mg/L	0.000154	247.05%
Sr 421.552†	14.1	0.00010	mg/L	0.000068	68.30%
Sr 460.733†	-8.0	-0.00393	mg/L	0.043603	>999.9%
Ti 334.940†	3.6	0.00019	mg/L	0.000411	220.72%
Ti 336.121†	4.3	0.00031	mg/L	0.000804	261.60%
Ti 337.279†	7.8	0.00107	mg/L	0.000586	54.54%
Tl 190.801†	0.9	0.1840	mg/L	0.14895	80.93%
Tl 276.787†	-1.7	-0.01826	mg/L	0.050495	276.61%
Tl 351.924†	-0.8	-0.00546	mg/L	0.029751	544.76%
V 290.880†	-1.7	-0.00059	mg/L	0.000706	119.23%
V 309.310†	-2.7	-0.00049	mg/L	0.000825	168.80%
V 310.230†	-44.7	-0.00612	mg/L	0.003466	56.63%
Zn 202.548†	3.7	0.01384	mg/L	0.002967	21.44%
Zn 206.200†	4.7	0.01534	mg/L	0.004315	28.13%
Zn 213.857†	6.2	0.01312	mg/L	0.002476	18.87%

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

Sequence No.: 23 **Autosampler Location: 57**
Sample ID: b307012-blk2 **Date Collected: 8/19/03 3:43:30 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Reprocessed on 8/20/03 1:55:50 PM,**

Mean Data: b307012-blk2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156737.3						1519.86	0.97%
Ag 328.068†	0.9	0.00019	mg/L	0.001740	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-2.8	-0.00096	mg/L	0.000958	0.000	mg/kg	0.0000	0.00%
Al 308.215†	28.5	0.04539	mg/L	0.006336	0.000	mg/kg	0.0000	0.00%
Al 394.401†	60.5	0.07285	mg/L	0.003934	0.000	mg/kg	0.0000	0.00%
Al 396.153†	124.8	0.06662	mg/L	0.007923	0.000	mg/kg	0.0000	0.00%
As 188.979†	0.5	0.07828	mg/L	0.065871	0.000	mg/kg	0.0000	0.00%
As 193.696†	0.4	0.07140	mg/L	0.145391	0.00000	mg/kg	0.000000	0.00%

As 197.197†	1.6	0.2755 mg/L	0.36343	0.00000 mg/kg	0.000000	0.00%
B 208.889†	1.3	0.02171 mg/L	0.026250	0.000 mg/kg	0.0000	0.00%
B 249.677†	-0.6	-0.00127 mg/L	0.008224	0.00000 mg/kg	0.000000	0.00%
B 249.772†	3.9	0.00399 mg/L	0.002162	0.000 mg/kg	0.0000	0.00%
Ba 233.527†	0.8	0.00043 mg/L	0.000678	0.00000 mg/kg	0.000000	0.00%
Ba 455.403†	187.1	0.00162 mg/L	0.000122	0.000 mg/kg	0.0000	0.00%
Ba 493.408†	166.8	0.00149 mg/L	0.000226	0.000 mg/kg	0.0000	0.00%
Be 234.861†	-1.1	-0.00009 mg/L	0.000246	0.00000 mg/kg	0.000000	0.00%
Be 313.042†	11.5	0.00018 mg/L	0.000066	0.000 mg/kg	0.0000	0.00%
Be 313.107†	-1.4	-0.00004 mg/L	0.000158	0.00000 mg/kg	0.000000	0.00%
Ca 315.887†	159.2	0.08667 mg/L	0.002607	0.000 mg/kg	0.0000	0.00%
Ca 317.933†	105.8	0.05627 mg/L	0.001694	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	2.5	0.00300 mg/L	0.003854	0.00000 mg/kg	0.000000	0.00%
Cd 226.502†	0.4	0.00069 mg/L	0.008217	0.00000 mg/kg	0.000000	0.00%
Cd 228.802†	0.8	0.00025 mg/L	0.005373	0.00000 mg/kg	0.000000	0.00%
Ce 413.380†	-11.6	-0.01061 mg/L	0.008036	0.000 mg/kg	0.0000	0.00%
Ce 413.764†	20.9	0.01767 mg/L	0.001924	0.000 mg/kg	0.0000	0.00%
Ce 418.660†	14.9	0.00958 mg/L	0.003660	0.000 mg/kg	0.0000	0.00%
Co 228.616†	1.2	0.00224 mg/L	0.002921	0.00000 mg/kg	0.000000	0.00%
Co 230.786†	-3.9	-0.00653 mg/L	0.004508	0.000 mg/kg	0.0000	0.00%
Co 238.892†	-1.3	-0.00258 mg/L	0.005934	0.00000 mg/kg	0.000000	0.00%
Cr 205.560†	-0.4	-0.00339 mg/L	0.009843	0.00000 mg/kg	0.000000	0.00%
Cr 267.716†	5.5	0.00669 mg/L	0.003904	0.000 mg/kg	0.0000	0.00%
Cr 283.563†	10.0	0.00230 mg/L	0.000915	0.000 mg/kg	0.0000	0.00%
Cu 224.700†	-1.1	-0.00443 mg/L	0.004437	0.00000 mg/kg	0.000000	0.00%
Cu 324.752†	-4.0	-0.00068 mg/L	0.001028	0.00000 mg/kg	0.000000	0.00%
Cu 327.393†	5.7	0.00219 mg/L	0.003347	0.00000 mg/kg	0.000000	0.00%
Fe 238.204†	69.4	0.04568 mg/L	0.001184	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	35.2	0.04021 mg/L	0.004522	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	124.4	0.04290 mg/L	0.000321	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	20.2	0.04725 mg/L	0.011083	0.000 mg/kg	0.0000	0.00%
K 766.490†	-32.3	-0.02414 mg/L	0.046346	0.00000 mg/kg	0.000000	0.00%
Li 610.362†	1893.0	0.3542 mg/L	0.06883	0.000 mg/kg	0.0000	0.00%
Li 670.784†	-274.3	-0.00751 mg/L	0.000464	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	11.9	0.03808 mg/L	0.011426	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	1466.1	0.03095 mg/L	0.000360	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	127.8	0.03193 mg/L	0.001148	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	8.6	0.00072 mg/L	0.000302	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	6.1	0.00032 mg/L	0.000596	0.00000 mg/kg	0.000000	0.00%
Mn 260.568†	3.2	0.00045 mg/L	0.000663	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	-0.6	-0.06650 mg/L	0.116717	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	2.1	0.07011 mg/L	0.053478	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	2.2	0.03779 mg/L	0.012444	0.000 mg/kg	0.0000	0.00%
Na 588.995†	-650.2	-0.1116 mg/L	0.03370	0.000 mg/kg	0.0000	0.00%
Na 589.592†	244.4	0.06264 mg/L	0.003135	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	-0.1	-0.00174 mg/L	0.006311	0.00000 mg/kg	0.000000	0.00%
Ni 231.604†	-0.7	-0.00231 mg/L	0.007595	0.00000 mg/kg	0.000000	0.00%
Ni 232.003†	-4.5	-0.02642 mg/L	0.024633	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	2.7	0.1273 mg/L	0.05690	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	-0.5	-0.01256 mg/L	0.033365	0.00000 mg/kg	0.000000	0.00%
Sb 206.836†	-0.7	-0.03068 mg/L	0.019442	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	-1.9	-0.1039 mg/L	0.08261	0.000 mg/kg	0.0000	0.00%
Sb 231.146†	-0.5	-0.02234 mg/L	0.121258	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	-2.2	-0.3104 mg/L	0.08340	0.000 mg/kg	0.0000	0.00%
Se 203.985†	-1.5	-0.2025 mg/L	0.34268	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	1.1	0.1320 mg/L	0.03500	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	1.5	0.02298 mg/L	0.036020	0.00000 mg/kg	0.000000	0.00%
Sn 283.998†	3.4	0.01139 mg/L	0.014049	0.00000 mg/kg	0.000000	0.00%
Sr 407.771†	109.0	0.00034 mg/L	0.000198	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	52.2	0.00037 mg/L	0.000119	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	-51.8	-0.02544 mg/L	0.013845	0.000 mg/kg	0.0000	0.00%
Ti 334.940†	21.2	0.00107 mg/L	0.000222	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	10.5	0.00075 mg/L	0.000413	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	10.8	0.00148 mg/L	0.001055	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	0.4	0.08904 mg/L	0.171153	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	1.9	0.01894 mg/L	0.027343	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	-4.6	-0.02992 mg/L	0.019836	0.000 mg/kg	0.0000	0.00%
V 290.880†	-1.6	-0.00055 mg/L	0.001885	0.00000 mg/kg	0.000000	0.00%
V 309.310†	-12.3	-0.00211 mg/L	0.001082	0.000 mg/kg	0.0000	0.00%
V 310.230†	-45.5	-0.00622 mg/L	0.001980	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	7.4	0.02754 mg/L	0.002539	0.000 mg/kg	0.0000	0.00%

Zn 206.200†	10.5	0.03462 mg/L	0.008576	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	16.3	0.03449 mg/L	0.002146	0.000 mg/kg	0.0000	0.00%

Sequence No.: 24 **Autosampler Location: 59**
Sample ID: b307012-bs1 **Date Collected: 8/19/03 3:47:12 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Reprocessed on 8/20/03 1:55:57 PM,**

Mean Data: b307012-bs1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	169545.3						763.99	0.45%
Ag 328.068†	426.9	0.08700	mg/L	0.002168	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	238.1	0.08699	mg/L	0.002376	0.000	mg/kg	0.0000	0.00%
Al 308.215†	28.2	0.02759	mg/L	0.009229	0.000	mg/kg	0.0000	0.00%
Al 394.401†	55.6	0.06532	mg/L	0.006305	0.000	mg/kg	0.0000	0.00%
Al 396.153†	167.7	0.06048	mg/L	0.005711	0.000	mg/kg	0.0000	0.00%
As 188.979†	0.9	0.1193	mg/L	0.05973	0.000	mg/kg	0.0000	0.00%
As 193.696†	0.3	0.05709	mg/L	0.338586	0.00000	mg/kg	0.000000	0.00%
As 197.197†	-1.0	-0.1752	mg/L	0.08686	0.000	mg/kg	0.0000	0.00%
B 208.889†	52.0	0.8930	mg/L	0.04870	0.000	mg/kg	0.0000	0.00%
B 249.677†	375.6	0.8708	mg/L	0.01228	0.000	mg/kg	0.0000	0.00%
B 249.772†	848.6	0.8676	mg/L	0.01451	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	791.4	0.4244	mg/L	0.00461	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	55100.3	0.4773	mg/L	0.00231	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	52396.1	0.4665	mg/L	0.00221	0.000	mg/kg	0.0000	0.00%
Be 234.861†	542.7	0.04408	mg/L	0.000594	0.000	mg/kg	0.0000	0.00%
Be 313.042†	2824.3	0.04253	mg/L	0.000775	0.000	mg/kg	0.0000	0.00%
Be 313.107†	1469.6	0.04185	mg/L	0.000500	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	191.7	0.1011	mg/L	0.00320	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	131.1	0.06753	mg/L	0.004077	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	72.8	0.08755	mg/L	0.002077	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	43.5	0.08309	mg/L	0.003061	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	66.4	0.08680	mg/L	0.006303	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-3.3	-0.00341	mg/L	0.012964	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	8.2	0.00609	mg/L	0.003456	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	0.1	-0.00013	mg/L	0.009195	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	230.6	0.4192	mg/L	0.00800	0.000	mg/kg	0.0000	0.00%
Co 230.786†	251.0	0.4220	mg/L	0.00759	0.000	mg/kg	0.0000	0.00%
Co 238.892†	199.6	0.3981	mg/L	0.00500	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	55.6	0.4404	mg/L	0.01534	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	351.7	0.4270	mg/L	0.00435	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	1904.7	0.4410	mg/L	0.00786	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	106.4	0.4141	mg/L	0.01553	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	2469.7	0.4142	mg/L	0.00724	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	1096.5	0.4149	mg/L	0.00560	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	180.2	0.1231	mg/L	0.00263	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	100.8	0.1191	mg/L	0.00225	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	340.5	0.1214	mg/L	0.00036	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	51.0	0.1212	mg/L	0.00510	0.000	mg/kg	0.0000	0.00%
K 766.490†	-29.0	-0.02166	mg/L	0.035095	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	2464.7	0.4516	mg/L	0.00610	0.000	mg/kg	0.0000	0.00%
Li 670.784†	16428.0	0.4504	mg/L	0.00324	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	8.0	0.02428	mg/L	0.008623	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	1788.3	0.03737	mg/L	0.000285	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	149.2	0.03704	mg/L	0.001234	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	21135.9	1.802	mg/L	0.0108	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	19500.4	1.794	mg/L	0.0062	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	13234.2	1.812	mg/L	0.0121	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	7.1	0.8316	mg/L	0.17125	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	26.7	0.8960	mg/L	0.05800	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	51.3	0.8911	mg/L	0.04064	0.000	mg/kg	0.0000	0.00%
Na 588.995†	447.1	0.07677	mg/L	0.021588	0.000	mg/kg	0.0000	0.00%
Na 589.592†	398.0	0.1020	mg/L	0.01340	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	34.2	0.4335	mg/L	0.01538	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	121.9	0.4222	mg/L	0.01088	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	78.4	0.4297	mg/L	0.01102	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	17.5	0.8308	mg/L	0.02158	0.000	mg/kg	0.0000	0.00%

Pb 220.353†	36.6	0.8480	mg/L	0.03673	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-1.2	-0.06499	mg/L	0.079271	0.00000	mg/kg	0.000000	0.00%
Sb 217.582†	-2.1	-0.1166	mg/L	0.15250	0.00000	mg/kg	0.000000	0.00%
Sb 231.146†	2.0	0.04430	mg/L	0.041604	0.00000	mg/kg	0.000000	0.00%
Se 196.026†	-3.1	-0.4493	mg/L	0.07205	0.000	mg/kg	0.0000	0.00%
Se 203.985†	-0.7	-0.1666	mg/L	0.15178	0.000	mg/kg	0.0000	0.00%
Sn 189.927†	7.4	0.8988	mg/L	0.12350	0.000	mg/kg	0.0000	0.00%
Sn 235.485†	32.7	0.8466	mg/L	0.08040	0.000	mg/kg	0.0000	0.00%
Sn 283.998†	200.1	0.3870	mg/L	0.01444	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	296447.1	0.9440	mg/L	0.00486	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	134202.3	0.9545	mg/L	0.00498	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	1926.3	0.9483	mg/L	0.01000	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	15.3	0.00061	mg/L	0.000306	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	10.6	0.00064	mg/L	0.000633	0.00000	mg/kg	0.000000	0.00%
Ti 337.279†	17.2	0.00240	mg/L	0.000536	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	-0.2	-0.04131	mg/L	0.156225	0.00000	mg/kg	0.000000	0.00%
Tl 276.787†	-2.0	-0.05188	mg/L	0.039541	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	-12.8	-0.08259	mg/L	0.021453	0.000	mg/kg	0.0000	0.00%
V 290.880†	1201.5	0.4238	mg/L	0.00872	0.000	mg/kg	0.0000	0.00%
V 309.310†	2639.1	0.4195	mg/L	0.00549	0.000	mg/kg	0.0000	0.00%
V 310.230†	3050.2	0.4173	mg/L	0.00180	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	231.9	0.8590	mg/L	0.01317	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	270.6	0.8891	mg/L	0.01329	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	418.3	0.8843	mg/L	0.00431	0.000	mg/kg	0.0000	0.00%

==========

Sequence No.: 25 **Autosampler Location: 60**
Sample ID: b307012-bs2 **Date Collected: 8/19/03 3:50:56 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: **Data Type: Reprocessed on 8/20/03 1:56:04 PM,**

Mean Data: b307012-bs2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156055.0						1969.71	1.26%
Ag 328.068†	3.1	-0.00023	mg/L	0.001822	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-8.4	-0.00285	mg/L	0.002967	0.00000	mg/kg	0.000000	0.00%
Al 308.215†	76.7	0.1060	mg/L	0.00832	0.000	mg/kg	0.0000	0.00%
Al 394.401†	118.2	0.1361	mg/L	0.01632	0.000	mg/kg	0.0000	0.00%
Al 396.153†	257.3	0.1383	mg/L	0.00125	0.000	mg/kg	0.0000	0.00%
As 188.979†	0.8	0.08692	mg/L	0.271190	0.00000	mg/kg	0.000000	0.00%
As 193.696†	0.5	0.09613	mg/L	0.331806	0.00000	mg/kg	0.000000	0.00%
As 197.197†	-0.3	-0.05199	mg/L	0.223124	0.00000	mg/kg	0.000000	0.00%
B 208.889†	58.2	0.9904	mg/L	0.03110	0.000	mg/kg	0.0000	0.00%
B 249.677†	403.4	0.9353	mg/L	0.00903	0.000	mg/kg	0.0000	0.00%
B 249.772†	917.6	0.9393	mg/L	0.00725	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	8713.3	4.665	mg/L	0.0995	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	577676.2	5.005	mg/L	0.0214	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	549943.1	4.897	mg/L	0.0227	0.000	mg/kg	0.0000	0.00%
Be 234.861†	630.1	0.05108	mg/L	0.000411	0.000	mg/kg	0.0000	0.00%
Be 313.042†	3269.8	0.04922	mg/L	0.000382	0.000	mg/kg	0.0000	0.00%
Be 313.107†	1711.4	0.04877	mg/L	0.000477	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	358.1	0.1793	mg/L	0.00211	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	301.7	0.1473	mg/L	0.00273	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	778.4	0.9355	mg/L	0.00068	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	484.8	0.9268	mg/L	0.01205	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	700.9	0.9231	mg/L	0.00515	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	15.7	0.01221	mg/L	0.003436	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	16.3	0.01127	mg/L	0.010635	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	22.7	0.01208	mg/L	0.016035	0.00000	mg/kg	0.000000	0.00%
Co 228.616†	251.0	0.4540	mg/L	0.00665	0.000	mg/kg	0.0000	0.00%
Co 230.786†	279.3	0.4665	mg/L	0.00704	0.000	mg/kg	0.0000	0.00%
Co 238.892†	220.7	0.4368	mg/L	0.00597	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	592.3	4.696	mg/L	0.0907	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	3830.8	4.663	mg/L	0.0327	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	20897.2	4.841	mg/L	0.1167	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	1174.1	4.614	mg/L	0.0497	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	28021.8	4.723	mg/L	0.1273	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	12275.5	4.666	mg/L	0.1324	0.000	mg/kg	0.0000	0.00%

Fe 238.204†	248.0	0.1822 mg/L	0.00312	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	140.2	0.1789 mg/L	0.00151	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	472.3	0.1807 mg/L	0.00114	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	77.7	0.1946 mg/L	0.01679	0.000 mg/kg	0.0000	0.00%
K 766.490†	-66.1	-0.04945 mg/L	0.025841	0.000 mg/kg	0.0000	0.00%
Li 610.362†	4528.4	0.7992 mg/L	0.11751	0.000 mg/kg	0.0000	0.00%
Li 670.784†	18093.8	0.4970 mg/L	0.01686	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	15.2	0.03900 mg/L	0.028631	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	1874.9	0.03767 mg/L	0.000029	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	157.0	0.03780 mg/L	0.001479	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	112326.5	9.580 mg/L	0.0610	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	103632.8	9.559 mg/L	0.0751	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	72266.9	9.896 mg/L	0.2483	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	0.1	0.01806 mg/L	0.087157	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	3.3	0.1146 mg/L	0.03511	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	1.5	0.02347 mg/L	0.029726	0.00000 mg/kg	0.000000	0.00%
Na 588.995†	-624.5	-0.1072 mg/L	0.04467	0.000 mg/kg	0.0000	0.00%
Na 589.592†	383.3	0.09822 mg/L	0.009942	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	146.3	1.852 mg/L	0.0154	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	545.1	1.888 mg/L	0.0176	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	368.8	1.912 mg/L	0.0424	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	100.6	4.776 mg/L	0.0481	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	206.3	4.779 mg/L	0.0365	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	1.4	-0.02222 mg/L	0.032679	0.00000 mg/kg	0.000000	0.00%
Sb 217.582†	-1.3	-0.07401 mg/L	0.069605	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	1.5	-0.00025 mg/L	0.031384	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	-1.6	-0.2622 mg/L	0.25466	0.00000 mg/kg	0.000000	0.00%
Se 203.985†	2.7	-0.2799 mg/L	0.29698	0.000 mg/kg	0.0000	0.00%
Sn 189.927†	1.3	0.1667 mg/L	0.01254	0.000 mg/kg	0.0000	0.00%
Sn 235.485†	6.4	0.1218 mg/L	0.07816	0.000 mg/kg	0.0000	0.00%
Sn 283.998†	706.6	0.00009 mg/L	0.029196	0.00000 mg/kg	0.000000	0.00%
Sr 407.771†	317592.3	1.011 mg/L	0.0053	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	143760.2	1.022 mg/L	0.0047	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	2152.4	1.063 mg/L	0.0187	0.000 mg/kg	0.0000	0.00%
Ti 334.940†	54.0	0.00123 mg/L	0.000710	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	21.0	0.00128 mg/L	0.000584	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	10.8	0.00148 mg/L	0.001399	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	1.0	0.1830 mg/L	0.24310	0.000 mg/kg	0.0000	0.00%
Tl 276.787†	15.3	-0.02638 mg/L	0.069474	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	-6.6	-0.04389 mg/L	0.037232	0.000 mg/kg	0.0000	0.00%
V 290.880†	1333.9	0.4714 mg/L	0.00488	0.000 mg/kg	0.0000	0.00%
V 309.310†	2894.9	0.4602 mg/L	0.00203	0.000 mg/kg	0.0000	0.00%
V 310.230†	3394.4	0.4637 mg/L	0.00766	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	2476.1	9.163 mg/L	0.0769	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	2880.8	9.457 mg/L	0.0749	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	4399.8	9.305 mg/L	0.0830	0.000 mg/kg	0.0000	0.00%

Sequence No.: 26
Sample ID: b307012-srm1
Analyst:
Sample Wt: 0.3408 g
Dilution:

Autosampler Location: 61
Date Collected: 8/19/03 3:54:44 PM

Sample Prep Volume: 100 mL
Data Type: Reprocessed on 8/20/03 1:56:11 PM,

Mean Data: b307012-srm1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	150203.7						1120.54	0.75%
Ag 328.068†	342.6	0.07442	mg/L	0.000252	21.84	mg/kg	0.074	0.34%
Ag 338.289†	203.3	0.07506	mg/L	0.005172	22.02	mg/kg	1.518	6.89%
Al 308.215†	677.0	0.9846	mg/L	0.00638	288.9	mg/kg	1.87	0.65%
Al 394.401†	657.5	0.9824	mg/L	0.01320	288.3	mg/kg	3.87	1.34%
Al 396.153†	2371.7	1.186	mg/L	0.0133	348.1	mg/kg	3.90	1.12%
As 188.979†	30.9	3.976	mg/L	0.1522	1167	mg/kg	44.7	3.83%
As 193.696†	18.2	3.856	mg/L	0.1798	1132	mg/kg	52.7	4.66%
As 197.197†	4.6	2.378	mg/L	0.8273	697.9	mg/kg	242.77	34.79%
B 208.889†	8.9	0.07656	mg/L	0.042056	22.47	mg/kg	12.340	54.93%
B 249.677†	15.4	0.03516	mg/L	0.007326	10.32	mg/kg	2.150	20.83%
B 249.772†	64.4	0.03104	mg/L	0.004272	9.108	mg/kg	1.2536	13.76%
Ba 233.527†	41.1	0.01334	mg/L	0.001696	3.915	mg/kg	0.4975	12.71%

Ba 455.403†	2671.0	0.02065 mg/L	0.000234	6.059 mg/kg	0.0687	1.13%
Ba 493.408†	2660.1	0.02069 mg/L	0.000330	6.072 mg/kg	0.0969	1.60%
Be 234.861†	970.8	0.07196 mg/L	0.000508	21.11 mg/kg	0.149	0.71%
Be 313.042†	4503.5	0.06702 mg/L	0.000841	19.67 mg/kg	0.247	1.26%
Be 313.107†	2353.1	0.06696 mg/L	0.000737	19.65 mg/kg	0.216	1.10%
Ca 315.887†	1229518.0	669.1 mg/L	2.86	196300 mg/kg	838.9	0.43%
Ca 317.933†	1164240.2	619.4 mg/L	2.58	181800 mg/kg	756.3	0.42%
Cd 214.440†	120.3	0.1404 mg/L	0.00403	41.20 mg/kg	1.183	2.87%
Cd 226.502†	70.7	0.1489 mg/L	0.00488	43.68 mg/kg	1.433	3.28%
Cd 228.802†	138.1	0.1383 mg/L	0.00371	40.57 mg/kg	1.087	2.68%
Ce 413.380†	1.5	-0.01044 mg/L	0.008477	-3.062 mg/kg	2.4874	81.22%
Ce 413.764†	7.0	-0.01265 mg/L	0.008342	-3.711 mg/kg	2.4478	65.95%
Ce 418.660†	9.7	0.01210 mg/L	0.014527	3.550 mg/kg	4.2626	120.07%
Co 228.616†	254.8	0.4680 mg/L	0.00216	137.3 mg/kg	0.64	0.46%
Co 230.786†	291.2	0.4824 mg/L	0.00747	141.6 mg/kg	2.19	1.55%
Co 238.892†	326.0	0.5091 mg/L	0.01798	149.4 mg/kg	5.28	3.53%
Cr 205.560†	45.3	0.3453 mg/L	0.04138	101.3 mg/kg	12.14	11.98%
Cr 267.716†	293.9	0.3574 mg/L	0.00810	104.9 mg/kg	2.38	2.27%
Cr 283.563†	1642.6	0.3456 mg/L	0.00329	101.4 mg/kg	0.97	0.95%
Cu 224.700†	5295.6	20.86 mg/L	0.188	6121 mg/kg	55.2	0.90%
Cu 324.752†	131610.4	22.22 mg/L	0.121	6521 mg/kg	35.5	0.54%
Cu 327.393†	57492.8	21.88 mg/L	0.155	6422 mg/kg	45.6	0.71%
Fe 238.204†	119557.2	78.68 mg/L	0.347	23090 mg/kg	101.7	0.44%
Fe 239.562†	67581.2	77.18 mg/L	0.260	22650 mg/kg	76.4	0.34%
Fe 259.939†	229832.4	79.24 mg/L	0.364	23250 mg/kg	106.7	0.46%
Fe 273.955†	36596.8	85.63 mg/L	0.372	25130 mg/kg	109.3	0.43%
K 766.490†	223.3	0.1669 mg/L	0.04788	48.98 mg/kg	14.050	28.68%
Li 610.362†	1969.4	0.1281 mg/L	0.05852	37.60 mg/kg	17.173	45.67%
Li 670.784†	-54.9	0.00442 mg/L	0.002574	1.298 mg/kg	0.7554	58.21%
Mg 279.077†	122643.4	391.8 mg/L	0.96	115000 mg/kg	281.9	0.25%
Mg 280.271†	Saturated2					
Saturated in preshot (code 2)						
Mg 285.213†	1268243.3	316.9 mg/L	6.08	92980 mg/kg	1783.6	1.92%
Mn 257.610†	8780.9	0.7407 mg/L	0.00571	217.3 mg/kg	1.67	0.77%
Mn 259.372†	9072.9	0.7311 mg/L	0.00373	214.5 mg/kg	1.09	0.51%
Mn 260.568†	5471.0	0.7384 mg/L	0.00533	216.7 mg/kg	1.56	0.72%
Mo 202.031†	27.1	2.159 mg/L	0.2694	633.5 mg/kg	79.06	12.48%
Mo 203.845†	12.1	0.4646 mg/L	0.11484	136.3 mg/kg	33.70	24.72%
Mo 204.597†	10.6	0.1874 mg/L	0.02917	55.00 mg/kg	8.559	15.56%
Na 588.995†	2851.7	0.4897 mg/L	0.03138	143.7 mg/kg	9.21	6.41%
Na 589.592†	1776.3	0.4552 mg/L	0.02266	133.6 mg/kg	6.65	4.98%
Ni 221.648†	14.8	0.2352 mg/L	0.02725	69.01 mg/kg	7.995	11.59%
Ni 231.604†	58.6	0.2005 mg/L	0.00767	58.83 mg/kg	2.249	3.82%
Ni 232.003†	34.3	0.2159 mg/L	0.03144	63.35 mg/kg	9.225	14.56%
Pb 217.000†	25.4	0.8944 mg/L	0.11587	262.4 mg/kg	34.00	12.96%
Pb 220.353†	45.4	0.7501 mg/L	0.07301	220.1 mg/kg	21.42	9.73%
Sb 206.836†	26.2	1.070 mg/L	0.1232	314.0 mg/kg	36.14	11.51%
Sb 217.582†	6.8	0.6232 mg/L	0.21047	182.9 mg/kg	61.76	33.77%
Sb 231.146†	16.8	0.7734 mg/L	0.07648	226.9 mg/kg	22.44	9.89%
Se 196.026†	-1.3	-0.2091 mg/L	0.27214	-61.35 mg/kg	79.853	130.15%
Se 203.985†	4.7	0.5328 mg/L	0.19474	156.3 mg/kg	57.14	36.55%
Sn 189.927†	1.3	0.04623 mg/L	0.142858	13.56 mg/kg	41.918	309.05%
Sn 235.485†	1036.0	-2.658 mg/L	0.3404	-780.0 mg/kg	99.89	12.81%
Sn 283.998†	-125.2	-0.2102 mg/L	0.05057	-61.67 mg/kg	14.838	24.06%
Sr 407.771†	65087.3	0.1922 mg/L	0.00063	56.39 mg/kg	0.186	0.33%
Sr 421.552†	29530.4	0.1946 mg/L	0.00119	57.12 mg/kg	0.350	0.61%
Sr 460.733†	417.9	0.1674 mg/L	0.02978	49.12 mg/kg	8.739	17.79%
Ti 334.940†	862.0	0.06123 mg/L	0.000194	17.97 mg/kg	0.057	0.32%
Ti 336.121†	1069.9	0.06091 mg/L	0.000384	17.87 mg/kg	0.113	0.63%
Ti 337.279†	475.1	0.06226 mg/L	0.000446	18.27 mg/kg	0.131	0.72%
Tl 190.801†	-0.8	0.06898 mg/L	0.248100	20.24 mg/kg	72.799	359.67%
Tl 276.787†	1189.9	3.933 mg/L	0.1888	1154 mg/kg	55.4	4.80%
Tl 351.924†	8.5	0.03740 mg/L	0.047808	10.97 mg/kg	14.028	127.84%
V 290.880†	331.1	0.2112 mg/L	0.00296	61.98 mg/kg	0.868	1.40%
V 309.310†	10214.5	0.2970 mg/L	0.01698	87.13 mg/kg	4.982	5.72%
V 310.230†	1694.5	0.2259 mg/L	0.00567	66.29 mg/kg	1.663	2.51%
Zn 202.548†	199.9	0.5664 mg/L	0.01197	166.2 mg/kg	3.51	2.11%
Zn 206.200†	189.4	0.6291 mg/L	0.01197	184.6 mg/kg	3.51	1.90%
Zn 213.857†	332.7	0.6532 mg/L	0.00740	191.7 mg/kg	2.17	1.13%

Sequence No.: 27
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/19/03 3:58:34 PM
Sample Prep Volume:
Data Type: Reprocessed on 8/20/03 1:56:18 PM,

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161371.0						2179.74	1.35%
Ag 328.068†	1.1	0.00023	mg/L	0.002875				>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	3.2	0.00115	mg/L	0.002790				242.68%
Al 308.215†	-11.0	-0.01764	mg/L	0.001573				8.91%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-1.9	-0.00148	mg/L	0.002329				157.29%
Al 396.153†	-12.4	-0.00680	mg/L	0.003412				50.16%
As 188.979†	0.4	0.05860	mg/L	0.038958				66.48%
As 193.696†	-0.7	-0.1311	mg/L	0.14331				109.34%
As 197.197†	-1.7	-0.2968	mg/L	0.10288				34.67%
B 208.889†	0.9	0.01473	mg/L	0.024712				167.79%
B 249.677†	2.5	0.00593	mg/L	0.006063				102.30%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	0.6	0.00056	mg/L	0.001868				334.60%
Ba 233.527†	0.1	0.00006	mg/L	0.002353				>999.9%
Ba 455.403†	70.3	0.00062	mg/L	0.000074				11.92%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	166.9	0.00150	mg/L	0.000153				10.22%
Be 234.861†	-1.1	-0.00009	mg/L	0.000111				123.88%
Be 313.042†	14.6	0.00022	mg/L	0.000107				47.70%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	0.2	0.00000	mg/L	0.000214				>999.9%
Ca 315.887†	281.2	0.1530	mg/L	0.04729				30.90%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	208.0	0.1107	mg/L	0.04622				41.75%
Cd 214.440†	1.7	0.00206	mg/L	0.002906				141.18%
Cd 226.502†	-1.7	-0.00319	mg/L	0.006603				206.89%
Cd 228.802†	2.3	0.00462	mg/L	0.003319				71.90%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-11.4	-0.01045	mg/L	0.008472				81.11%
Ce 413.764†	19.1	0.01613	mg/L	0.009806				60.80%
Ce 418.660†	2.7	0.00171	mg/L	0.002612				152.60%
Co 228.616†	3.4	0.00617	mg/L	0.002380				38.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-0.6	-0.00095	mg/L	0.004125				432.02%
Co 238.892†	-0.2	-0.00055	mg/L	0.008015				>999.9%
Cr 205.560†	0.4	0.00315	mg/L	0.001812				57.48%
Cr 267.716†	2.1	0.00259	mg/L	0.001379				53.28%
Cr 283.563†	1.5	0.00031	mg/L	0.001425				458.39%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	27.3	0.1075	mg/L	0.01411				13.12%
Cu 324.752†	650.7	0.1099	mg/L	0.00770				7.01%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	292.4	0.1113	mg/L	0.00675				6.06%
Fe 238.204†	80.1	0.05264	mg/L	0.008733				16.59%
Fe 239.562†	40.3	0.04594	mg/L	0.002087				4.54%
Fe 259.939†	129.7	0.04466	mg/L	0.007231				16.19%
Fe 273.955†	20.4	0.04779	mg/L	0.010458				21.88%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-177.0	-0.1323	mg/L	0.03726				28.16%
QC value less than the lower limit for K 766.490 Recovery = Not calculated								
Li 610.362†	318.9	0.05966	mg/L	0.108045				181.09%
Li 670.784†	-241.8	-0.00663	mg/L	0.002282				34.43%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	25.3	0.08089	mg/L	0.038004				46.98%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mg 280.271†	4669.4	0.09857	mg/L	0.028995				29.42%
Mg 285.213†	341.0	0.08520	mg/L	0.025469				29.89%
Mn 257.610†	8.7	0.00074	mg/L	0.000236				31.73%
QC value within limits for Mn 257.610 Recovery = Not calculated								

Mn 259.372†	13.5	0.00120	mg/L	0.000265	22.19%
Mn 260.568†	9.5	0.00130	mg/L	0.000239	18.37%
Mo 202.031†	-0.9	-0.1110	mg/L	0.15748	141.89%
Mo 203.845†	2.3	0.07724	mg/L	0.030054	38.91%
Mo 204.597†	-0.1	-0.00200	mg/L	0.009283	464.82%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	-400.3	-0.06874	mg/L	0.056720	82.51%
Na 589.592†	-25.5	-0.00655	mg/L	0.011514	175.90%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	-1.2	-0.01547	mg/L	0.025862	167.22%
Ni 231.604†	0.1	0.00035	mg/L	0.004943	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-5.4	-0.03137	mg/L	0.035499	113.15%
Pb 217.000†	-0.1	-0.00711	mg/L	0.062477	878.57%
Pb 220.353†	0.3	0.00655	mg/L	0.013977	213.33%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.0	-0.00018	mg/L	0.059786	>999.9%
Sb 217.582†	0.6	0.03167	mg/L	0.016917	53.42%
Sb 231.146†	-0.3	-0.01635	mg/L	0.090640	554.47%
Se 196.026†	-2.5	-0.3506	mg/L	0.07127	20.33%
Se 203.985†	-2.1	-0.2838	mg/L	0.21048	74.17%
Sn 189.927†	1.4	0.1700	mg/L	0.20375	119.86%
Sn 235.485†	2.5	0.04700	mg/L	0.097154	206.70%
Sn 283.998†	4.9	0.01299	mg/L	0.015414	118.67%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	-4.7	-0.00002	mg/L	0.000076	443.98%
Sr 421.552†	28.2	0.00020	mg/L	0.000037	18.51%
Sr 460.733†	-56.1	-0.02756	mg/L	0.047590	172.66%
Ti 334.940†	5.2	0.00026	mg/L	0.000323	122.54%
Ti 336.121†	-10.2	-0.00074	mg/L	0.000175	23.71%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	10.5	0.00143	mg/L	0.000647	45.15%
Tl 190.801†	-0.4	-0.08503	mg/L	0.225968	265.74%
Tl 276.787†	0.7	0.00580	mg/L	0.008008	138.10%
Tl 351.924†	-12.4	-0.08058	mg/L	0.005316	6.60%
V 290.880†	-5.4	-0.00187	mg/L	0.000595	31.75%
V 309.310†	-10.8	-0.00198	mg/L	0.000527	26.68%
V 310.230†	-61.8	-0.00845	mg/L	0.002875	34.03%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	3.7	0.01296	mg/L	0.002340	18.05%
Zn 206.200†	5.0	0.01646	mg/L	0.004802	29.18%
Zn 213.857†	5.0	0.01058	mg/L	0.003960	37.45%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

==========

Sequence No.: 28 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 8/19/03 4:02:19 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:56:32 PM,**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	159702.4						3364.88	2.11%
Ag 328.068†	1204.3	0.2458	mg/L	0.00491				2.00%
QC value within limits for Ag 328.068 Recovery = 98.31%								
Ag 338.289†	672.7	0.2434	mg/L	0.00500				2.06%
Al 308.215†	601.3	0.9460	mg/L	0.00972				1.03%
QC value within limits for Al 308.215 Recovery = 94.60%								
Al 394.401†	917.0	1.028	mg/L	0.0315				3.06%
Al 396.153†	1850.4	1.015	mg/L	0.0247				2.44%
As 188.979†	12.6	1.821	mg/L	0.1381				7.58%
As 193.696†	9.2	1.842	mg/L	0.1311				7.12%
As 197.197†	11.3	1.984	mg/L	0.2488				12.54%
B 208.889†	55.6	0.9550	mg/L	0.04133				4.33%
B 249.677†	395.1	0.9148	mg/L	0.02235				2.44%
QC value within limits for B 249.677 Recovery = 91.48%								
B 249.772†	906.8	0.9272	mg/L	0.01979				2.13%

Ba 233.527†	1755.6	0.9392 mg/L	0.02369	2.52%
Ba 455.403†	122593.8	1.062 mg/L	0.0058	0.55%
QC value within limits for Ba 455.403 Recovery = 106.16%				
Ba 493.408†	116642.1	1.038 mg/L	0.0068	0.65%
Be 234.861†	11713.9	0.9496 mg/L	0.03474	3.66%
Be 313.042†	61623.0	0.9319 mg/L	0.03638	3.90%
QC value within limits for Be 313.042 Recovery = 93.19%				
Be 313.107†	32550.2	0.9267 mg/L	0.03469	3.74%
Ca 315.887†	1980.4	1.074 mg/L	0.0320	2.98%
Ca 317.933†	1836.0	0.9746 mg/L	0.02549	2.62%
QC value within limits for Ca 317.933 Recovery = 97.46%				
Cd 214.440†	786.6	0.9450 mg/L	0.02418	2.56%
Cd 226.502†	493.4	0.9438 mg/L	0.02408	2.55%
Cd 228.802†	722.0	0.9300 mg/L	0.02501	2.69%
QC value within limits for Cd 228.802 Recovery = 93.00%				
Ce 413.380†	1060.8	0.9669 mg/L	0.05426	5.61%
Ce 413.764†	1175.8	0.9910 mg/L	0.02109	2.13%
Ce 418.660†	1513.3	0.9722 mg/L	0.07254	7.46%
Co 228.616†	499.6	0.9077 mg/L	0.01977	2.18%
QC value within limits for Co 228.616 Recovery = 90.77%				
Co 230.786†	555.6	0.9347 mg/L	0.02134	2.28%
Co 238.892†	451.1	0.8972 mg/L	0.02454	2.74%
Cr 205.560†	119.4	0.9463 mg/L	0.02704	2.86%
Cr 267.716†	767.0	0.9345 mg/L	0.02403	2.57%
Cr 283.563†	4136.0	0.9566 mg/L	0.01931	2.02%
QC value within limits for Cr 283.563 Recovery = 95.66%				
Cu 224.700†	266.5	1.047 mg/L	0.0351	3.35%
Cu 324.752†	6221.0	1.049 mg/L	0.0324	3.09%
QC value within limits for Cu 324.752 Recovery = 104.90%				
Cu 327.393†	2748.1	1.045 mg/L	0.0267	2.55%
Fe 238.204†	1646.2	1.090 mg/L	0.0227	2.08%
Fe 239.562†	935.1	1.074 mg/L	0.0351	3.27%
Fe 259.939†	3112.7	1.079 mg/L	0.0250	2.31%
QC value within limits for Fe 259.939 Recovery = 107.94%				
Fe 273.955†	494.4	1.157 mg/L	0.0218	1.89%
K 766.490†	6380.2	4.770 mg/L	0.1302	2.73%
QC value within limits for K 766.490 Recovery = 95.40%				
Li 610.362†	7065.1	1.295 mg/L	0.1143	8.82%
Li 670.784†	36971.4	1.013 mg/L	0.0458	4.52%
QC value less than the lower limit for Li 670.784 Recovery = 20.27%				
Mg 279.077†	309.2	0.9867 mg/L	0.03780	3.83%
Mg 280.271†	45932.0	0.9689 mg/L	0.03332	3.44%
QC value within limits for Mg 280.271 Recovery = 96.89%				
Mg 285.213†	3842.4	0.9595 mg/L	0.02441	2.54%
Mn 257.610†	11426.5	0.9744 mg/L	0.03623	3.72%
QC value within limits for Mn 257.610 Recovery = 97.44%				
Mn 259.372†	10531.8	0.9699 mg/L	0.03408	3.51%
Mn 260.568†	7156.2	0.9791 mg/L	0.03395	3.47%
Mo 202.031†	-0.2	-0.02507 mg/L	0.153743	613.23%
Mo 203.845†	2.5	0.08535 mg/L	0.048918	57.32%
Mo 204.597†	1.0	0.01619 mg/L	0.010224	63.16%
Na 588.995†	5898.2	1.013 mg/L	0.0628	6.20%
Na 589.592†	4104.5	1.052 mg/L	0.0425	4.04%
Ni 221.648†	72.9	0.9228 mg/L	0.00507	0.55%
Ni 231.604†	271.9	0.9418 mg/L	0.02891	3.07%
QC value within limits for Ni 231.604 Recovery = 94.18%				
Ni 232.003†	174.0	0.9665 mg/L	0.02756	2.85%
Pb 217.000†	39.4	1.865 mg/L	0.0348	1.87%
Pb 220.353†	81.0	1.876 mg/L	0.0887	4.73%
QC value within limits for Pb 220.353 Recovery = 93.79%				
Sb 206.836†	0.5	0.00393 mg/L	0.120635	>999.9%
Sb 217.582†	-1.6	-0.09201 mg/L	0.036589	39.77%
Sb 231.146†	-1.8	-0.2112 mg/L	0.04705	22.27%
Se 196.026†	4.6	0.6365 mg/L	0.23254	36.53%
Se 203.985†	7.5	0.8815 mg/L	0.30496	34.60%
Sn 189.927†	0.1	0.01583 mg/L	0.201386	>999.9%
Sn 235.485†	16.8	0.05089 mg/L	0.069731	137.01%
Sn 283.998†	134.6	-0.02425 mg/L	0.006447	26.58%
Sr 407.771†	324107.0	1.032 mg/L	0.0062	0.60%
Sr 421.552†	146753.2	1.044 mg/L	0.0060	0.58%
Sr 460.733†	2082.4	1.020 mg/L	0.0553	5.42%

Ti 334.940†	17.2	0.00046	mg/L	0.000096	20.74%
Ti 336.121†	-8.4	-0.00067	mg/L	0.000410	60.77%
Ti 337.279†	5.2	0.00083	mg/L	0.000695	83.70%
Tl 190.801†	21.2	4.282	mg/L	0.3348	7.82%
Tl 276.787†	415.7	4.395	mg/L	0.1518	3.45%
Tl 351.924†	741.7	4.814	mg/L	0.1819	3.78%
V 290.880†	2646.3	0.9336	mg/L	0.02279	2.44%
V 309.310†	5777.8	0.9145	mg/L	0.03825	4.18%
V 310.230†	6766.2	0.9250	mg/L	0.04228	4.57%
QC value within limits for V 310.230 Recovery = 92.50%					
Zn 202.548†	259.5	0.9569	mg/L	0.01128	1.18%
Zn 206.200†	304.7	1.002	mg/L	0.0152	1.52%
Zn 213.857†	466.9	0.9853	mg/L	0.01381	1.40%
QC value within limits for Zn 213.857 Recovery = 98.53%					
QC Failed. Continue with analysis.					

Sequence No.: 29 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 8/19/03 4:06:08 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:56:39 PM,**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	156425.7						2030.16	1.30%
Ag 328.068†	-16.2	-0.00054	mg/L	0.000777				144.11%
Ag 338.289†	-4.5	-0.00098	mg/L	0.000611				62.40%
Al 308.215†	11.1	0.00679	mg/L	0.008329				122.62%
Al 394.401†	23.9	0.02833	mg/L	0.005065				17.88%
Al 396.153†	103.8	0.02320	mg/L	0.008916				38.43%
As 188.979†	-0.8	-0.1215	mg/L	0.15324				126.11%
As 193.696†	-0.8	-0.1707	mg/L	0.19220				112.57%
As 197.197†	-1.3	-0.2270	mg/L	0.19263				84.85%
B 208.889†	2.1	0.03631	mg/L	0.026952				74.23%
B 249.677†	-0.9	-0.00190	mg/L	0.009700				511.61%
B 249.772†	6.0	0.00629	mg/L	0.002875				45.70%
Ba 233.527†	-29.3	-0.01499	mg/L	0.001433				9.56%
Ba 455.403†	271.7	0.00227	mg/L	0.000584				25.70%
Ba 493.408†	229.5	0.00196	mg/L	0.000700				35.61%
Be 234.861†	0.7	0.00014	mg/L	0.000058				41.68%
Be 313.042†	28.2	0.00041	mg/L	0.000043				10.44%
Be 313.107†	9.4	0.00025	mg/L	0.000092				37.25%
Ca 315.887†	64.8	0.03550	mg/L	0.003329				9.38%
Ca 317.933†	14.3	0.00839	mg/L	0.006514				77.61%
Cd 214.440†	1.7	0.00211	mg/L	0.000827				39.17%
Cd 226.502†	1.9	0.00356	mg/L	0.003816				107.34%
Cd 228.802†	1.1	0.00332	mg/L	0.003944				118.92%
Ce 413.380†	-4.9	-0.00468	mg/L	0.007613				162.68%
Ce 413.764†	23.1	0.01907	mg/L	0.011531				60.46%
Ce 418.660†	14.1	0.00876	mg/L	0.010997				125.54%
Co 228.616†	2.2	0.00286	mg/L	0.003332				116.30%
Co 230.786†	0.2	-0.00001	mg/L	0.004590				>999.9%
Co 238.892†	-2.5	-0.00476	mg/L	0.002343				49.23%
Cr 205.560†	-0.1	-0.00127	mg/L	0.004020				316.14%
Cr 267.716†	1.7	0.00203	mg/L	0.006396				315.35%
Cr 283.563†	12.7	0.00270	mg/L	0.001291				47.76%
Cu 224.700†	13.5	0.04986	mg/L	0.012486				25.04%
Cu 324.752†	309.1	0.04974	mg/L	0.001324				2.66%
Cu 327.393†	137.9	0.05014	mg/L	0.003315				6.61%
Fe 238.204†	164.5	0.1103	mg/L	0.00354				3.21%
Fe 239.562†	89.3	0.1040	mg/L	0.00361				3.47%
Fe 259.939†	296.0	0.1042	mg/L	0.00092				0.88%
Fe 273.955†	44.2	0.1058	mg/L	0.00809				7.65%
K 766.490†	15.9	0.01185	mg/L	0.008230				69.44%
Li 610.362†	1575.0	0.2920	mg/L	0.12180				41.71%
Li 670.784†	42.3	0.00132	mg/L	0.001151				87.16%
Mg 279.077†	-3.1	-0.00919	mg/L	0.014206				154.52%
Mg 280.271†	506.8	0.01074	mg/L	0.000123				1.15%

Mg 285.213†	50.9	0.01281	mg/L	0.000988	7.71%
Mn 257.610†	35.1	0.00262	mg/L	0.000220	8.39%
Mn 259.372†	86.5	0.00273	mg/L	0.000841	30.82%
Mn 260.568†	21.6	0.00299	mg/L	0.000380	12.71%
Mo 202.031†	8.4	0.9856	mg/L	0.16717	16.96%
Mo 203.845†	31.1	1.046	mg/L	0.0527	5.04%
Mo 204.597†	55.9	0.9703	mg/L	0.01216	1.25%
QC value within limits for Mo 204.597 Recovery = 97.03%					
Na 588.995†	-445.3	-0.07647	mg/L	0.041721	54.56%
Na 589.592†	370.9	0.09504	mg/L	0.004829	5.08%
Ni 221.648†	-0.1	-0.00055	mg/L	0.014533	>999.9%
Ni 231.604†	1.3	0.00421	mg/L	0.007525	178.81%
Ni 232.003†	-0.9	-0.01092	mg/L	0.011482	105.13%
Pb 217.000†	0.6	0.03024	mg/L	0.080114	264.96%
Pb 220.353†	-2.3	-0.04958	mg/L	0.020071	40.48%
Sb 206.836†	44.6	2.019	mg/L	0.0355	1.76%
QC value within limits for Sb 206.836 Recovery = 100.93%					
Sb 217.582†	36.0	1.979	mg/L	0.0984	4.97%
QC value within limits for Sb 217.582 Recovery = 98.96%					
Sb 231.146†	39.6	1.979	mg/L	0.1782	9.00%
QC value within limits for Sb 231.146 Recovery = 98.96%					
Se 196.026†	-2.3	-0.3333	mg/L	0.23757	71.28%
Se 203.985†	1.1	0.08230	mg/L	0.115359	140.17%
Sn 189.927†	36.1	4.391	mg/L	0.0848	1.93%
Sn 235.485†	183.7	4.769	mg/L	0.1479	3.10%
Sn 283.998†	776.8	2.271	mg/L	0.0246	1.08%
QC value less than the lower limit for Sn 283.998 Recovery = 45.42%					
Sr 407.771†	239.2	0.00064	mg/L	0.000182	28.26%
Sr 421.552†	80.5	0.00046	mg/L	0.000147	32.12%
Sr 460.733†	-13.5	-0.00597	mg/L	0.015224	255.06%
Ti 334.940†	19609.0	0.9889	mg/L	0.00496	0.50%
Ti 336.121†	13613.1	0.9806	mg/L	0.00431	0.44%
QC value within limits for Ti 336.121 Recovery = 98.06%					
Ti 337.279†	7120.8	0.9780	mg/L	0.00393	0.40%
Tl 190.801†	-0.4	-0.08552	mg/L	0.157527	184.20%
Tl 276.787†	2.2	0.02570	mg/L	0.076986	299.58%
Tl 351.924†	-1.3	-0.01178	mg/L	0.060728	515.44%
V 290.880†	5.2	0.00177	mg/L	0.001067	60.31%
V 309.310†	-14.1	-0.00208	mg/L	0.000963	46.28%
V 310.230†	-51.7	-0.00701	mg/L	0.005675	80.91%
Zn 202.548†	5.7	0.02139	mg/L	0.005072	23.71%
Zn 206.200†	8.2	0.02757	mg/L	0.003404	12.34%
Zn 213.857†	10.2	0.02224	mg/L	0.003736	16.79%
QC Failed. Continue with analysis.					

==========

Sequence No.: 30 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 8/19/03 4:09:54 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Reprocessed on 8/20/03 1:56:46 PM,**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	155050.6						3862.79	2.49%
Ag 328.068†	-3.2	0.00038	mg/L	0.001529				397.90%
Ag 338.289†	-22.8	-0.00216	mg/L	0.002192				101.59%
Al 308.215†	58731.8	94.40	mg/L	0.309				0.33%
QC value within limits for Al 308.215 Recovery = 94.40%								
Al 394.401†	83065.9	99.08	mg/L	0.498				0.50%
Al 396.153†	182176.5	99.25	mg/L	0.360				0.36%
As 188.979†	1.5	0.1434	mg/L	0.10492				73.14%
As 193.696†	0.0	0.02527	mg/L	0.147536				583.81%
As 197.197†	-3.1	-0.3233	mg/L	0.21383				66.13%
B 208.889†	2.8	0.04254	mg/L	0.018722				44.01%
B 249.677†	0.0	0.00231	mg/L	0.006980				301.99%
B 249.772†	42.3	-0.00852	mg/L	0.001765				20.71%
Ba 233.527†	13.9	-0.00132	mg/L	0.001656				125.08%
Ba 455.403†	181.9	0.00124	mg/L	0.000099				7.97%

Ba 493.408†	212.5	0.00081	mg/L	0.000453	56.03%
Be 234.861†	88.6	-0.00040	mg/L	0.001362	336.76%
Be 313.042†	19.0	0.00010	mg/L	0.000093	88.97%
Be 313.107†	-2.4	-0.00008	mg/L	0.000077	93.68%
Ca 315.887†	186490.2	101.5	mg/L	0.69	0.68%
QC value within limits for Ca 315.887 Recovery = 101.49%					
Ca 317.933†	177598.1	94.49	mg/L	0.796	0.84%
Cd 214.440†	-1.7	0.00028	mg/L	0.003677	>999.9%
Cd 226.502†	0.4	-0.00375	mg/L	0.010761	287.14%
Cd 228.802†	1.4	0.00298	mg/L	0.002160	72.50%
Ce 413.380†	12.2	-0.00716	mg/L	0.008692	121.45%
Ce 413.764†	7.6	-0.00131	mg/L	0.002663	203.84%
Ce 418.660†	26.3	0.01473	mg/L	0.017334	117.70%
Co 228.616†	0.3	0.00042	mg/L	0.001715	408.69%
Co 230.786†	0.9	-0.00205	mg/L	0.003487	170.35%
Co 238.892†	87.6	0.01335	mg/L	0.016673	124.92%
Cr 205.560†	0.5	0.00343	mg/L	0.018611	543.14%
Cr 267.716†	-1.4	0.00151	mg/L	0.004309	285.44%
Cr 283.563†	161.7	-0.00836	mg/L	0.000615	7.36%
Cu 224.700†	10.6	0.02788	mg/L	0.002686	9.63%
Cu 324.752†	151.8	0.02318	mg/L	0.003050	13.15%
Cu 327.393†	87.0	0.02962	mg/L	0.002005	6.77%
Fe 238.204†	140130.2	92.17	mg/L	0.609	0.66%
Fe 239.562†	79736.1	91.01	mg/L	0.602	0.66%
Fe 259.939†	267043.0	92.02	mg/L	0.449	0.49%
Fe 273.955†	43172.2	100.9	mg/L	0.63	0.63%
QC value within limits for Fe 273.955 Recovery = 100.94%					
K 766.490†	132587.5	99.13	mg/L	0.377	0.38%
Li 610.362†	1549.7	0.2560	mg/L	0.21488	83.94%
Li 670.784†	575.5	0.01702	mg/L	0.000520	3.06%
Mg 279.077†	17955.9	57.34	mg/L	0.356	0.62%
QC value within limits for Mg 279.077 Recovery = 95.56%					
Mg 280.271†	2572119.7	54.29	mg/L	1.218	2.24%
Mg 285.213†	217622.9	54.36	mg/L	0.398	0.73%
Mn 257.610†	59.7	0.00243	mg/L	0.001017	41.85%
Mn 259.372†	1223.4	-0.00254	mg/L	0.001824	71.70%
Mn 260.568†	57.6	0.00199	mg/L	0.000225	11.36%
Mo 202.031†	8.3	0.8198	mg/L	0.20171	24.61%
Mo 203.845†	5.0	0.1314	mg/L	0.05948	45.25%
Mo 204.597†	0.9	0.00518	mg/L	0.023954	462.47%
Na 588.995†	589362.8	101.2	mg/L	2.39	2.37%
Na 589.592†	391807.1	100.4	mg/L	2.39	2.38%
QC value within limits for Na 589.592 Recovery = 100.41%					
Ni 221.648†	-0.0	0.00725	mg/L	0.025450	351.01%
Ni 231.604†	-0.3	-0.00265	mg/L	0.009017	339.92%
Ni 232.003†	-3.5	-0.01710	mg/L	0.008974	52.49%
Pb 217.000†	9.7	0.1393	mg/L	0.08703	62.49%
Pb 220.353†	2.4	0.1448	mg/L	0.03810	26.31%
Sb 206.836†	0.8	0.01539	mg/L	0.038648	251.20%
Sb 217.582†	-0.2	-0.04615	mg/L	0.024113	52.25%
Sb 231.146†	-0.7	-0.03465	mg/L	0.146694	423.36%
Se 196.026†	-0.1	-0.06003	mg/L	0.192651	320.90%
Se 203.985†	1.4	0.04638	mg/L	0.355605	766.70%
Sn 189.927†	0.7	0.06590	mg/L	0.293709	445.72%
Sn 235.485†	1218.2	-3.261	mg/L	0.4488	13.76%
Sn 283.998†	-46.8	-0.03116	mg/L	0.028410	91.18%
Sr 407.771†	638.3	-0.00028	mg/L	0.000259	91.18%
Sr 421.552†	273.7	-0.00060	mg/L	0.000085	14.21%
Sr 460.733†	-98.7	-0.05563	mg/L	0.034150	61.39%
Ti 334.940†	-22.5	0.00102	mg/L	0.000209	20.39%
Ti 336.121†	50.7	0.00057	mg/L	0.000412	72.13%
Ti 337.279†	14.8	0.00071	mg/L	0.000891	125.66%
Tl 190.801†	-1.1	-0.2218	mg/L	0.43027	193.98%
Tl 276.787†	236.4	1.205	mg/L	0.0218	1.81%
Tl 351.924†	-5.2	-0.04175	mg/L	0.072108	172.71%
V 290.880†	-84.5	-0.02229	mg/L	0.002002	8.98%
V 309.310†	1633.1	0.00131	mg/L	0.001542	117.31%
V 310.230†	-54.9	-0.00938	mg/L	0.003849	41.03%
Zn 202.548†	7.8	0.02546	mg/L	0.005800	22.78%
Zn 206.200†	7.8	0.03085	mg/L	0.011204	36.32%
Zn 213.857†	20.4	0.03530	mg/L	0.001890	5.35%

All analytes passed QC.

Sample ID	Date	Time	Aliquot Vol.	Diluted To V(	Int (Corr)
Calib Blank 1	09/03/2003	12:35:37 PM			171059
Cal 1	09/03/2003	12:39:29 PM			173476
Cal 2	09/03/2003	12:43:10 PM			171562
Cal 3	09/03/2003	12:46:52 PM			172259
Cal 4A+B	09/03/2003	12:50:33 PM			172606
Cal 4C	09/03/2003	12:54:15 PM			170854
Cal 5	09/03/2003	12:57:59 PM			171166
Hi Cal	09/03/2003	01:01:46 PM			160050
BLANK	09/03/2003	01:08:13 PM			169547
LCM1	09/03/2003	01:11:58 PM			165334
LCM2	09/03/2003	02:56:20 PM			158757
Hi AQC	09/03/2003	03:00:07 PM			160206
Blank 2	09/03/2003	03:04:01 PM			160412
Blank 2	09/03/2003	03:07:50 PM			162937
RLC	09/03/2003	03:11:39 PM	50	50	161735
B307012-BLK1	09/03/2003	03:15:23 PM	50	50	164419
0305007-06dil	09/03/2003	03:19:08 PM	5	25	162659
0305007-13dil	09/03/2003	03:22:55 PM	5	25	159291
0305007-17dil	09/03/2003	03:26:46 PM	5	25	161678
0305007-22dil	09/03/2003	03:30:36 PM	5	25	161939
0305007-34dil	09/03/2003	03:34:20 PM	5	25	158540
Blank 2	09/03/2003	03:38:10 PM			160392
Blank 2	09/03/2003	03:41:58 PM			159058
Blank 2	09/03/2003	03:45:47 PM			158348
AsTi	09/03/2003	03:49:37 PM			163203
AlFe	09/03/2003	03:53:26 PM			158588
BLANK	09/03/2003	03:57:13 PM			161943
LCM1	09/03/2003	04:01:30 PM			156782
LCM2	09/03/2003	04:05:53 PM			160879
Hi AQC	09/03/2003	04:09:41 PM			157918

Instrument Blank First

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.000	0.003		mg/L
01:10 PM	Al 308.215	0.07	0.06	out	mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.001	0.001		mg/L
	Be 313.042	-0.0024	0.0004	out	mg/L
	Ca 315.887	0.03	0.09		mg/L
	Cd 228.802	0.003	0.006		mg/L
	Co 228.616	0.002	0.01		mg/L
	Cr 283.563	-0.006	0.006	out	mg/L
	Cu 324.752	-0.069	0.005	out	mg/L
	Fe 273.955	0.02	0.04		mg/L
	K 766.490	0.3	0.7		mg/L
	Li 670.784	-0.01	0.01		mg/L
	Mg 279.077	0.05	0.04	out	mg/L
	Mn 257.610	0.000	0.001		mg/L
	Mo 204.597	-0.01	0.03		mg/L
	Na 589.592	0.1	0.5		mg/L
	Ni 231.604	0.012	0.02		mg/L
	Pb 220.353	0.02	0.07		mg/L
	Sn 283.998	0.02	0.02		mg/L
	Ti 336.121	0.000	0.002		mg/L
	V 310.289	0.03	0.02	out	mg/L
	Zn 213.857	-0.01	0.09		mg/L

KJ
090403

Instrument QC First

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Actual	Recovery	Units	
LCM1	Ag 328.068	0.251	0.250	100%	mg/L	
01:13 PM	Al 308.215	1.081	1.000	108%	mg/L	
	B 249.677	0.993	1.000	99%	mg/L	
	Ba 455.403	1.035	1.000	103%	mg/L	
	Be 313.042	1.023	1.000	102%	mg/L	
	Cd 228.802	0.888	1.000	89%	mg/L	out
	Co 228.616	1.057	1.000	106%	mg/L	
	Cr 283.563	0.984	1.000	98%	mg/L	
	Cu 324.752	0.992	1.000	99%	mg/L	
	K 766.490	4.903	5.000	98%	mg/L	
	Li 670.784	1.014	1.000	101%	mg/L	
	Mg 279.077	1.050	1.000	105%	mg/L	
	Mn 257.610	1.021	1.000	102%	mg/L	
	Ni 231.604	1.025	1.000	103%	mg/L	
	Pb 220.353	2.054	2.000	103%	mg/L	
	V 310.230	1.023	1.000	102%	mg/L	
	Zn 213.857	1.060	1.000	106%	mg/L	
LCM2	Mo 204.597	0.924	1.000	92%	mg/L	
	Ti 336.121	0.997	1.000	100%	mg/L	
Hi AQC	Al 308.215	97.079	100.000	97%	mg/L	
	Ca 315.887	104.065	100.000	104%	mg/L	
	Fe 273.955	105.920	100.000	106%	mg/L	
	K 766.490	93.209	100.000	93%	mg/L	
	Mg 279.077	59.663	60.000	99%	mg/L	
	Na 589.592	97.810	100.000	98%	mg/L	

KS
090403

Report Level Check

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Actual	Recovery	Units
RLC	Ag 328.068	0.010	0.005	196%	mg/L
03:13 PM	Al 308.215	0.574	0.5	115%	mg/L
	B 249.677	0.099	0.1	99%	mg/L
	Ba 455.403	0.013	0.01	128%	mg/L
	Be 313.042	0.002	0.005	32%	mg/L
	Ca 315.887	0.546	0.5	109%	mg/L
	Cd 228.802	0.053	0.05	106%	mg/L
	Co 228.616	0.107	0.1	107%	mg/L
	Cr 283.563	0.035	0.05	69%	mg/L
	Cu 324.752	-0.030	0.05	-60%	mg/L
	Fe 273.955	0.507	0.5	101%	mg/L
	K 766.490	0.586	0.5	117%	mg/L
	Li 670.784	0.038	0.05	77%	mg/L
	Mg 279.077	0.553	0.5	111%	mg/L
	Mn 257.610	0.004	0.005	88%	mg/L
	Mo 204.597	0.087	0.1	87%	mg/L
	Na 589.592	1.017	1	102%	mg/L
	Ni 231.604	0.121	0.1	121%	mg/L
	Pb 220.353	1.082	0.5	216%	mg/L
	Sn 283.998	0.077	0.1	77%	mg/L
	Ti 336.121	0.009	0.01	89%	mg/L
	V 310.289	0.091	0.05	182%	mg/L
	Zn 213.857	0.501	0.50	100%	mg/L

KJ
090403

SIC AsTi

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	0.092	0.003	mg/L
12:00 AM	Al 308.215	0.109	0.025	mg/L
	B 249.677	0.00	0.02	mg/L
	Ba 455.403	-0.0026	0.0004	mg/L
	Be 313.042	-0.0034	0.0002	mg/L
	Ca 315.887	0.04	0.02	mg/L
	Cd 228.802	0.543	0.006	mg/L
	Co 228.616	0.029	0.004	mg/L
	Cr 283.563	-0.017	0.006	mg/L
	Cu 324.752	-0.100	0.003	mg/L
	Fe 273.955	0.04	0.02	mg/L
	K 766.490	-0.0	0.7	mg/L
	Li 670.784	-0.01	0.01	mg/L
	Mg 279.077	0.05	0.03	mg/L
	Mn 257.610	-0.0020	0.0007	mg/L
	Mo 204.597	-0.04	0.03	mg/L
	Na 589.592	0.0	0.5	mg/L
	Ni 231.604	0.020	0.003	mg/L
	Pb 220.353	0.090	0.032	mg/L
	Sn 283.998	0.20	0.02	mg/L
	Ti 336.121	49.005	0.001	mg/L
	V 310.289	0.04	0.02	mg/L
	Zn 213.857	0.03	0.01	mg/L

KJ
090403

SIC AlFe

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit	Units
Blank	Ag 328.068	-0.000	0.003	mg/L
12:00 AM	Al 308.215	196.342	0.025	mg/L
	B 249.677	-0.00	0.02	mg/L
	Ba 455.403	0.0019	0.0004	mg/L
	Be 313.042	-0.0037	0.0002	mg/L
	Ca 315.887	0.00	0.02	mg/L
	Cd 228.802	0.014	0.006	mg/L
	Co 228.616	0.007	0.004	mg/L
	Cr 283.563	0.126	0.006	mg/L
	Cu 324.752	-0.078	0.003	mg/L
	Fe 273.955	211.58	0.02	mg/L
	K 766.490	0.0	0.7	mg/L
	Li 670.784	-0.00	0.01	mg/L
	Mg 279.077	-0.05	0.03	mg/L
	Mn 257.610	-0.0051	0.0007	mg/L
	Mo 204.597	-0.02	0.03	mg/L
	Na 589.592	-0.0	0.5	mg/L
	Ni 231.604	0.031	0.003	mg/L
	Pb 220.353	0.323	0.032	mg/L
	Sn 283.998	-0.17	0.02	mg/L
	Ti 336.121	0.014	0.001	mg/L
	V 310.289	0.04	0.02	mg/L
	Zn 213.857	0.01	0.01	mg/L

KG
090403

Laboratory Reagent Blank

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.003	0.003		mg/L
03:17 PM	Al 308.215	0.094	0.025	out	mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.0022	0.0004		mg/L
	Be 313.042	-0.0035	0.0002	out	mg/L
	Ca 315.887	0.05	0.02	out	mg/L
	Cd 228.802	-0.000	0.006		mg/L
	Co 228.616	0.002	0.004		mg/L
	Cr 283.563	-0.011	0.006	out	mg/L
	Cu 324.752	-0.076	0.003	out	mg/L
	Fe 273.955	-0.05	0.02	out	mg/L
	K 766.490	-0.0	0.7		mg/L
	Li 670.784	-0.01	0.01	out	mg/L
	Mg 279.077	0.04	0.03	out	mg/L
	Mn 257.610	-0.0007	0.0007	out	mg/L
	Mo 204.597	0.01	0.03		mg/L
	Na 589.592	-0.0	0.5		mg/L
	Ni 231.604	0.023	0.003	out	mg/L
	Pb 220.353	0.023	0.032		mg/L
	Sn 283.998	0.03	0.02	out	mg/L
	Ti 336.121	-0.001	0.001		mg/L
	V 310.289	0.03	0.02	out	mg/L
	Zn 213.857	0.00	0.01		mg/L

kg
09 04 03

Instrument Blank Second

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.002	0.003		mg/L
03:59 PM	Al 308.215	0.14	0.06	out	mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.002	0.001		mg/L
	Be 313.042	-0.0036	0.0004	out	mg/L
	Ca 315.887	-0.01	0.09		mg/L
	Cd 228.802	0.001	0.006		mg/L
	Co 228.616	0.004	0.01		mg/L
	Cr 283.563	-0.013	0.006	out	mg/L
	Cu 324.752	-0.088	0.005	out	mg/L
	Fe 273.955	0.02	0.04		mg/L
	K 766.490	-0.1	0.7		mg/L
	Li 670.784	-0.02	0.01	out	mg/L
	Mg 279.077	0.01	0.04		mg/L
	Mn 257.610	-0.001	0.001		mg/L
	Mo 204.597	0.01	0.03		mg/L
	Na 589.592	-0.1	0.5		mg/L
	Ni 231.604	0.023	0.02	out	mg/L
	Pb 220.353	0.01	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	0.001	0.002		mg/L
	V 310.289	0.04	0.02	out	mg/L
	Zn 213.857	-0.02	0.09		mg/L

IG
090403

Instrument Blank Second

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Detection Limit		Units
Blank	Ag 328.068	-0.002	0.003		mg/L
03:59 PM	Al 308.215	0.14	0.06	out	mg/L
	B 249.677	0.01	0.02		mg/L
	Ba 455.403	0.002	0.001		mg/L
	Be 313.042	-0.0036	0.0004	out	mg/L
	Ca 315.887	-0.01	0.09		mg/L
	Cd 228.802	0.001	0.006		mg/L
	Co 228.616	0.004	0.01		mg/L
	Cr 283.563	-0.013	0.006	out	mg/L
	Cu 324.752	-0.088	0.005	out	mg/L
	Fe 273.955	0.02	0.04		mg/L
	K 766.490	-0.1	0.7		mg/L
	Li 670.784	-0.02	0.01	out	mg/L
	Mg 279.077	0.01	0.04		mg/L
	Mn 257.610	-0.001	0.001		mg/L
	Mo 204.597	0.01	0.03		mg/L
	Na 589.592	-0.1	0.5		mg/L
	Ni 231.604	0.023	0.02	out	mg/L
	Pb 220.353	0.01	0.07		mg/L
	Sn 283.998	0.01	0.02		mg/L
	Ti 336.121	0.001	0.002		mg/L
	V 310.289	0.04	0.02	out	mg/L
	Zn 213.857	-0.02	0.09		mg/L

kg
09 04 03

Instrument QC Second

Sample Batch Number: 0305007
Analysis Date: 09/03/2003
Results Data Set: 0305007 090303 dil

QC	Element	Measured	Actual	Recovery		Units	
LCM1	Ag 328.068	0.254	0.250	102%		mg/L	
04:03 PM	Al 308.215	1.145	1.000	114%	out	mg/L	
	B 249.677	1.018	1.000	102%		mg/L	
	Ba 455.403	1.072	1.000	107%		mg/L	
	Be 313.042	1.048	1.000	105%		mg/L	
	Cd 228.802	0.882	1.000	88%		mg/L	out
	Co 228.616	1.092	1.000	109%		mg/L	
	Cr 283.563	0.929	1.000	93%		mg/L	
	Cu 324.752	0.987	1.000	99%		mg/L	
	K 766.490	4.729	5.000	95%		mg/L	
	Li 670.784	1.020	1.000	102%		mg/L	
	Mg 279.077	1.064	1.000	106%		mg/L	
	Mn 257.610	1.022	1.000	102%		mg/L	
	Ni 231.604	1.044	1.000	104%		mg/L	
	Pb 220.353	2.136	2.000	107%		mg/L	
	V 310.230	0.988	1.000	99%		mg/L	
	Zn 213.857	1.086	1.000	109%		mg/L	
LCM2	Mo 204.597	0.953	1.000	95%		mg/L	
	Ti 336.121	0.996	1.000	100%		mg/L	
Hi AQC	Al 308.215	98.810	100.000	99%		mg/L	
	Ca 315.887	104.224	100.000	104%		mg/L	
	Fe 273.955	106.333	100.000	106%		mg/L	
	K 766.490	93.926	100.000	94%		mg/L	
	Mg 279.077	59.887	60.000	100%		mg/L	
	Na 589.592	96.488	100.000	96%		mg/L	

H
090403

==========

Analysis Begun

Start Time: 9/3/03 12:33:27 PM **Plasma On Time: 9/3/03 10:34:48 AM**
Logged In Analyst: KSWAN **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV **Autosampler Model: AS-91**

Sample Information File: D:\KSWAN\Sample Information\0305007 090303 dil.sif
Results Data Set: 0305007 090303 dil
Results Library: D:\KSWAN\Results\Results.mdb

==========

Method Loaded
Method Name: SedSpring03 **Method Last Saved: 7/10/03 3:09:06 PM**
IEC File: 071003sed.iec **MSF File:**
Method Description: method

==========

9/3/03 12:35:07 PM Hg ReAlign... Actual peak offset (nm): 0.008
Drift (nm): -0.006 Slit adjustment: -30

==========

==========

Sequence No.: 2 **Autosampler Location: 9**
Sample ID: Calib Blank 1 **Date Collected: 9/3/03 12:35:37 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	171059.3	2733.55	1.60%		
Ag 328.068†	-30.6	2.03	6.63%	[0.00]	mg/L
Ag 338.289†	27.7	13.47	48.61%	[0.00]	mg/L
Al 308.215†	-115.9	15.42	13.31%	[0.00]	mg/L
Al 394.401†	-144.6	7.53	5.21%	[0.00]	mg/L
Al 396.153†	31.0	13.06	42.14%	[0.00]	mg/L
As 188.979†	-0.0	1.14	>999.9%	[0.00]	mg/L
As 193.696†	0.4	1.02	232.75%	[0.00]	mg/L
As 197.197†	-0.3	1.43	521.69%	[0.00]	mg/L
B 208.889†	19.0	1.28	6.74%	[0.00]	mg/L
B 249.677†	-10.5	2.69	25.47%	[0.00]	mg/L
B 249.772†	6.3	1.69	26.80%	[0.00]	mg/L
Ba 233.527†	-12.5	1.61	12.94%	[0.00]	mg/L
Ba 455.403†	31.7	11.58	36.52%	[0.00]	mg/L
Ba 493.408†	61.1	44.47	72.79%	[0.00]	mg/L
Be 234.861†	6.1	3.12	51.29%	[0.00]	mg/L
Be 313.042†	26.6	7.63	28.69%	[0.00]	mg/L
Be 313.107†	-10.5	10.87	103.73%	[0.00]	mg/L
Ca 315.887†	69.6	1.89	2.72%	[0.00]	mg/L
Ca 317.933†	321.2	8.84	2.75%	[0.00]	mg/L
Cd 214.440†	-2.3	0.92	40.54%	[0.00]	mg/L
Cd 226.502†	-4.3	1.21	28.21%	[0.00]	mg/L
Cd 228.802†	1.4	0.99	70.85%	[0.00]	mg/L
Ce 413.380†	-34.4	6.27	18.21%	[0.00]	mg/L
Ce 413.764†	-1.8	8.92	501.43%	[0.00]	mg/L
Ce 418.660†	-1376.0	31.24	2.27%	[0.00]	mg/L
Co 228.616†	6.2	2.10	34.01%	[0.00]	mg/L
Co 230.786†	6.3	0.88	14.02%	[0.00]	mg/L
Co 238.892†	-7.7	0.82	10.70%	[0.00]	mg/L
Cr 205.560†	0.9	1.01	113.32%	[0.00]	mg/L
Cr 267.716†	2.3	0.82	36.32%	[0.00]	mg/L
Cr 283.563†	20.7	3.47	16.79%	[0.00]	mg/L
Cu 224.700†	12.9	0.61	4.74%	[0.00]	mg/L
Cu 324.752†	508.0	14.13	2.78%	[0.00]	mg/L
Cu 327.393†	202.4	7.31	3.61%	[0.00]	mg/L
Fe 238.204†	74.6	2.78	3.73%	[0.00]	mg/L
Fe 239.562†	19.4	4.41	22.71%	[0.00]	mg/L
Fe 259.939†	93.1	4.02	4.32%	[0.00]	mg/L

19
090403

Fe 273.955†	-49.2	1.13	2.30%	[0.00]	mg/L
K 766.490†	411.3	28.98	7.05%	[0.00]	mg/L
Li 610.362†	21848.0	582.94	2.67%	[0.00]	mg/L
Li 670.784†	1134.4	89.38	7.88%	[0.00]	mg/L
Mg 279.077†	5.7	4.35	76.50%	[0.00]	mg/L
Mg 280.271†	338.8	7.64	2.26%	[0.00]	mg/L
Mg 285.213†	38.8	3.28	8.46%	[0.00]	mg/L
Mn 257.610†	-16.6	5.00	30.06%	[0.00]	mg/L
Mn 259.372†	64.3	3.77	5.86%	[0.00]	mg/L
Mn 260.568†	20.6	0.18	0.88%	[0.00]	mg/L
Mo 202.031†	-0.6	0.29	47.77%	[0.00]	mg/L
Mo 203.845†	0.2	1.33	612.73%	[0.00]	mg/L
Mo 204.597†	-0.3	0.99	303.21%	[0.00]	mg/L
Na 588.995†	-7019.9	324.23	4.62%	[0.00]	mg/L
Na 589.592†	329.6	100.75	30.57%	[0.00]	mg/L
Ni 221.648†	0.0	1.09	>999.9%	[0.00]	mg/L
Ni 231.604†	1.0	1.52	155.25%	[0.00]	mg/L
Ni 232.003†	-0.8	1.79	221.05%	[0.00]	mg/L
Pb 217.000†	2.3	0.26	11.10%	[0.00]	mg/L
Pb 220.353†	4.8	1.11	22.86%	[0.00]	mg/L
Sb 206.836†	2.4	2.21	91.11%	[0.00]	mg/L
Sb 217.582†	2.1	1.06	49.50%	[0.00]	mg/L
Sb 231.146†	2.0	0.76	37.72%	[0.00]	mg/L
Se 196.026†	3.0	2.48	81.59%	[0.00]	mg/L
Se 203.985†	1.7	1.09	64.34%	[0.00]	mg/L
Sn 189.927†	-0.2	0.74	338.61%	[0.00]	mg/L
Sn 235.485†	21.2	1.73	8.16%	[0.00]	mg/L
Sn 283.998†	38.2	3.85	10.08%	[0.00]	mg/L
Sr 407.771†	112.1	47.61	42.46%	[0.00]	mg/L
Sr 421.552†	-724.9	10.75	1.48%	[0.00]	mg/L
Sr 460.733†	-105.2	85.13	80.93%	[0.00]	mg/L
Ti 334.940†	36.1	3.87	10.71%	[0.00]	mg/L
Ti 336.121†	7.3	2.43	33.47%	[0.00]	mg/L
Ti 337.279†	-5.3	1.49	28.25%	[0.00]	mg/L
Tl 190.801†	0.6	1.71	271.20%	[0.00]	mg/L
Tl 276.787†	104.5	3.04	2.91%	[0.00]	mg/L
Tl 351.924†	26.8	4.69	17.48%	[0.00]	mg/L
V 290.880†	56.8	3.46	6.09%	[0.00]	mg/L
V 309.310†	-95.9	4.12	4.29%	[0.00]	mg/L
V 310.230†	1542.1	15.62	1.01%	[0.00]	mg/L
Zn 202.548†	6.4	0.75	11.72%	[0.00]	mg/L
Zn 206.200†	7.0	1.15	16.26%	[0.00]	mg/L
Zn 213.857†	19.9	0.69	3.47%	[0.00]	mg/L

Sequence No.: 3 **Autosampler Location: 10**
Sample ID: Cal 1 **Date Collected: 9/3/03 12:39:29 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	173475.9	1272.93	0.73%		
Ag 328.068†	2015.0	21.84	1.08%	[0.5]	mg/L
Ag 338.289†	1407.8	15.60	1.11%	[0.5]	mg/L
As 188.979†	69.5	2.75	3.95%	[10]	mg/L
As 193.696†	50.5	0.76	1.51%	[10]	mg/L
As 197.197†	67.6	0.44	0.65%	[10]	mg/L
B 208.889†	70.3	1.07	1.53%	[1]	mg/L
B 249.677†	348.8	2.25	0.64%	[1]	mg/L
B 249.772†	726.1	8.00	1.10%	[1]	mg/L
Ca 317.933†	13452.6	59.33	0.44%	[10]	mg/L
Cd 214.440†	1412.4	18.00	1.27%	[2]	mg/L
Cd 226.502†	1215.6	10.95	0.90%	[2]	mg/L
Cd 228.802†	1726.7	11.50	0.67%	[2]	mg/L
Sb 206.836†	89.9	2.01	2.23%	[5]	mg/L
Sb 217.582†	71.1	0.81	1.14%	[5]	mg/L
Sb 231.146†	103.2	0.77	0.74%	[5]	mg/L

Se 196.026†	25.4	1.89	7.45%	[5] mg/L
Se 203.985†	27.3	2.11	7.73%	[5] mg/L
Sr 407.771†	222755.4	863.65	0.39%	[1] mg/L
Sr 421.552†	95370.9	376.06	0.39%	[1] mg/L
Sr 460.733†	2231.8	46.47	2.08%	[1] mg/L

Sequence No.: 4 **Autosampler Location: 11**
Sample ID: Cal 2 **Date Collected: 9/3/03 12:43:10 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	171561.7	3764.37	2.19%		
Li 610.362†	25309.6	782.82	3.09%	[5]	mg/L
Li 670.784†	206009.6	1594.97	0.77%	[5]	mg/L
Mo 202.031†	284.8	10.54	3.70%	[10]	mg/L
Mo 203.845†	159.9	1.47	0.92%	[10]	mg/L
Mo 204.597†	394.1	9.33	2.37%	[10]	mg/L
Na 588.995†	73941.3	565.57	0.76%	[10]	mg/L
Ti 334.940†	199686.9	458.57	0.23%	[10]	mg/L
Ti 336.121†	135364.2	228.67	0.17%	[10]	mg/L
Ti 337.279†	66077.7	26.77	0.04%	[10]	mg/L

Sequence No.: 5 **Autosampler Location: 12**
Sample ID: Cal 3 **Date Collected: 9/3/03 12:46:52 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	172259.1	2951.12	1.71%		
Ce 413.380†	2316.7	29.77	1.28%	[2]	mg/L
Ce 413.764†	1994.4	22.13	1.11%	[2]	mg/L
Ce 418.660†	2693.1	24.85	0.92%	[2]	mg/L
Co 228.616†	1192.2	16.08	1.35%	[2]	mg/L
Co 230.786†	1135.8	20.34	1.79%	[2]	mg/L
Co 238.892†	684.7	6.88	1.01%	[2]	mg/L
V 290.880†	3644.7	61.88	1.70%	[2]	mg/L
V 309.310†	11041.0	60.18	0.55%	[2]	mg/L
V 310.230†	12432.4	25.75	0.21%	[2]	mg/L

Sequence No.: 6 **Autosampler Location: 13**
Sample ID: Cal 4A+B **Date Collected: 9/3/03 12:50:33 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Cal 4A+B

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	172605.9	1931.69	1.12%		
Al 394.401†	6426.2	49.34	0.77%	[10]	mg/L
Al 396.153†	13020.9	87.00	0.67%	[10]	mg/L
Cr 205.560†	457.2	8.88	1.94%	[5]	mg/L
Cr 267.716†	2555.7	38.50	1.51%	[5]	mg/L
Cr 283.563†	18461.5	79.12	0.43%	[5]	mg/L
Sn 189.927†	18.8	0.98	5.23%	[4]	mg/L
Sn 235.485†	124.8	5.43	4.35%	[4]	mg/L
Sn 283.998†	1329.7	10.15	0.76%	[4]	mg/L

Sequence No.: 7
Sample ID: Cal 4C
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 14
Date Collected: 9/3/03 12:54:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 4C

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	170854.5	2377.73	1.39%		
Ba 233.527†	10283.9	187.29	1.82%	[5]	mg/L
Ba 455.403†	546903.4	1502.17	0.27%	[5]	mg/L
Ba 493.408†	451435.1	1030.36	0.23%	[5]	mg/L
Cu 224.700†	801.2	18.80	2.35%	[5]	mg/L
Cu 324.752†	23518.3	74.48	0.32%	[5]	mg/L
Cu 327.393†	10407.2	61.85	0.59%	[5]	mg/L
Mn 257.610†	97759.7	318.68	0.33%	[10]	mg/L
Mn 259.372†	93772.1	299.24	0.32%	[10]	mg/L
Mn 260.568†	57087.0	159.69	0.28%	[10]	mg/L
Zn 202.548†	2205.3	41.19	1.87%	[10]	mg/L
Zn 206.200†	2691.9	51.53	1.91%	[10]	mg/L
Zn 213.857†	7405.4	113.89	1.54%	[10]	mg/L

Sequence No.: 8
Sample ID: Cal 5
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 15
Date Collected: 9/3/03 12:57:59 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	171165.6	2281.85	1.33%		
Be 234.861†	11540.0	151.05	1.31%	[1]	mg/L
Be 313.042†	54556.6	871.21	1.60%	[1]	mg/L
Be 313.107†	30383.7	537.79	1.77%	[1]	mg/L
Fe 238.204†	11504.1	165.50	1.44%	[10]	mg/L
Fe 239.562†	7619.6	76.73	1.01%	[10]	mg/L
Fe 259.939†	23564.3	328.04	1.39%	[10]	mg/L
Mg 280.271†	549190.4	1119.65	0.20%	[10]	mg/L
Mg 285.213†	35546.2	548.38	1.54%	[10]	mg/L
Ni 221.648†	134.8	4.20	3.11%	[2]	mg/L
Ni 231.604†	442.4	8.85	2.00%	[2]	mg/L
Ni 232.003†	267.5	3.79	1.42%	[2]	mg/L
Pb 217.000†	191.0	5.91	3.10%	[10]	mg/L
Pb 220.353†	485.9	9.81	2.02%	[10]	mg/L
Tl 190.801†	21.9	1.18	5.40%	[5]	mg/L
Tl 276.787†	389.8	20.40	5.23%	[5]	mg/L
Tl 351.924†	527.1	17.50	3.32%	[5]	mg/L

Sequence No.: 9
Sample ID: Hi Cal
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 9/3/03 1:01:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	160050.2	1607.38	1.00%		
Al 308.215†	257055.0	1449.02	0.56%	[500]	mg/L
Ca 315.887†	775373.2	2474.18	0.32%	[500]	mg/L
Fe 273.955†	152186.0	442.71	0.29%	[500]	mg/L
K 766.490†	542858.5	4641.77	0.86%	[500]	mg/L
Mg 279.077†	143431.4	397.46	0.28%	[500]	mg/L

Na 589.592† 962913.2 10662.58 1.11% [200] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin, Calc Int	0.0	4030	0.00000	1.000000	
Ag 338.289	1	Lin, Calc Int	0.0	2816	0.00000	1.000000	
Al 308.215	1	Lin, Calc Int	0.0	514.1	0.00000	1.000000	
Al 394.401	1	Lin, Calc Int	0.0	642.6	0.00000	1.000000	
Al 396.153	1	Lin, Calc Int	-0.0	1302	0.00000	1.000000	
As 188.979	1	Lin, Calc Int	0.0	6.952	0.00000	1.000000	
As 193.696	1	Lin, Calc Int	0.0	5.055	0.00000	1.000000	
As 197.197	1	Lin, Calc Int	0.0	6.759	0.00000	1.000000	
B 208.889	1	Lin, Calc Int	0.0	70.29	0.00000	1.000000	
B 249.677	1	Lin, Calc Int	0.0	348.8	0.00000	1.000000	
B 249.772	1	Lin, Calc Int	0.0	726.1	0.00000	1.000000	
Ba 233.527	1	Lin, Calc Int	0.0	2057	0.00000	1.000000	
Ba 455.403	1	Lin, Calc Int	0.0	109400	0.00000	1.000000	
Ba 493.408	1	Lin, Calc Int	-0.0	90290	0.00000	1.000000	
Be 234.861	1	Lin, Calc Int	0.0	11540	0.00000	1.000000	
Be 313.042	1	Lin, Calc Int	0.0	54560	0.00000	1.000000	
Be 313.107	1	Lin, Calc Int	0.0	30380	0.00000	1.000000	
Ca 315.887	1	Lin, Calc Int	0.0	1551	0.00000	1.000000	
Ca 317.933	1	Lin, Calc Int	0.0	1345	0.00000	1.000000	
Cd 214.440	1	Lin, Calc Int	0.0	706.2	0.00000	1.000000	
Cd 226.502	1	Lin, Calc Int	0.0	607.8	0.00000	1.000000	
Cd 228.802	1	Lin, Calc Int	0.0	863.3	0.00000	1.000000	
Ce 413.380	1	Lin, Calc Int	0.0	1158	0.00000	1.000000	
Ce 413.764	1	Lin, Calc Int	0.0	997.2	0.00000	1.000000	
Ce 418.660	1	Lin, Calc Int	0.0	1347	0.00000	1.000000	
Co 228.616	1	Lin, Calc Int	0.0	596.1	0.00000	1.000000	
Co 230.786	1	Lin, Calc Int	0.0	567.9	0.00000	1.000000	
Co 238.892	1	Lin, Calc Int	0.0	342.4	0.00000	1.000000	
Cr 205.560	1	Lin, Calc Int	0.0	91.44	0.00000	1.000000	
Cr 267.716	1	Lin, Calc Int	-0.0	511.1	0.00000	1.000000	
Cr 283.563	1	Lin, Calc Int	0.0	3692	0.00000	1.000000	
Cu 224.700	1	Lin, Calc Int	0.0	160.2	0.00000	1.000000	
Cu 324.752	1	Lin, Calc Int	0.0	4704	0.00000	1.000000	
Cu 327.393	1	Lin, Calc Int	0.0	2081	0.00000	1.000000	
Fe 238.204	1	Lin, Calc Int	0.0	1150	0.00000	1.000000	
Fe 239.562	1	Lin, Calc Int	0.0	762.0	0.00000	1.000000	
Fe 259.939	1	Lin, Calc Int	0.0	2356	0.00000	1.000000	
Fe 273.955	1	Lin, Calc Int	-0.0	304.4	0.00000	1.000000	
K 766.490	1	Lin, Calc Int	0.0	1086	0.00000	1.000000	
Li 610.362	1	Lin, Calc Int	0.0	5062	0.00000	1.000000	
Li 670.784	1	Lin, Calc Int	0.0	41200	0.00000	1.000000	
Mg 279.077	1	Lin, Calc Int	-0.0	286.9	0.00000	1.000000	
Mg 280.271	1	Lin, Calc Int	0.0	54920	0.00000	1.000000	
Mg 285.213	1	Lin, Calc Int	0.0	3555	0.00000	1.000000	
Mn 257.610	1	Lin, Calc Int	0.0	9776	0.00000	1.000000	
Mn 259.372	1	Lin, Calc Int	0.0	9377	0.00000	1.000000	
Mn 260.568	1	Lin, Calc Int	0.0	5709	0.00000	1.000000	
Mo 202.031	1	Lin, Calc Int	0.0	28.48	0.00000	1.000000	
Mo 203.845	1	Lin, Calc Int	-0.0	15.99	0.00000	1.000000	
Mo 204.597	1	Lin, Calc Int	0.0	39.41	0.00000	1.000000	
Na 588.995	1	Lin, Calc Int	0.0	7394	0.00000	1.000000	
Na 589.592	1	Lin, Calc Int	0.0	4815	0.00000	1.000000	
Ni 221.648	1	Lin, Calc Int	0.0	67.41	0.00000	1.000000	
Ni 231.604	1	Lin, Calc Int	0.0	221.2	0.00000	1.000000	
Ni 232.003	1	Lin, Calc Int	0.0	133.8	0.00000	1.000000	
Pb 217.000	1	Lin, Calc Int	0.0	19.10	0.00000	1.000000	
Pb 220.353	1	Lin, Calc Int	0.0	48.59	0.00000	1.000000	
Sb 206.836	1	Lin, Calc Int	0.0	17.99	0.00000	1.000000	
Sb 217.582	1	Lin, Calc Int	0.0	14.21	0.00000	1.000000	
Sb 231.146	1	Lin, Calc Int	-0.0	20.65	0.00000	1.000000	
Se 196.026	1	Lin, Calc Int	0.0	5.084	0.00000	1.000000	
Se 203.985	1	Lin, Calc Int	0.0	5.459	0.00000	1.000000	
Sn 189.927	1	Lin, Calc Int	0.0	4.709	0.00000	1.000000	
Sn 235.485	1	Lin, Calc Int	0.0	31.20	0.00000	1.000000	
Sn 283.998	1	Lin, Calc Int	0.0	332.4	0.00000	1.000000	

Sr 407.771	1	Lin, Calc Int	0.0	222800	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	95370	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	2232	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	0.0	19970	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	0.0	13540	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	6608	0.00000	1.000000
Tl 190.801	1	Lin, Calc Int	0.0	4.376	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	77.96	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	0.0	105.4	0.00000	1.000000
V 290.880	1	Lin, Calc Int	0.0	1822	0.00000	1.000000
V 309.310	1	Lin, Calc Int	0.0	5520	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	6216	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	0.0	220.5	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	269.2	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	740.5	0.00000	1.000000

==========

Analysis Begun

Start Time: 9/3/03 1:07:51 PM **Plasma On Time: 9/3/03 10:34:48 AM**
Logged In Analyst: KSWAN **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV **Autosampler Model: AS-91**

Sample Information File: D:\KSWAN\Sample Information\0305007 090303 dil.sif
Results Data Set: 0305007 090303 dil
Results Library: D:\KSWAN\Results\Results.mdb

==========

9/3/03 12:35:07 PM Hg ReAlign... Actual peak offset (nm): 0.008
Drift (nm): -0.006 Slit adjustment: -30

==========

==========

Analysis Begun

Start Time: 9/3/03 1:08:13 PM
Logged In Analyst: KSWAN
Spectrometer Model: Optima 3300 DV
Plasma On Time: 9/3/03 10:34:48 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\KSWAN\Sample Information\0305007 090303 dil.sif
Results Data Set: 0305007 090303 dil
Results Library: D:\KSWAN\Results\Results.mdb

==========

Sequence No.: 1
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 9/3/03 1:08:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	169546.8						2673.30	1.58%
Ag 328.068†	-1.2	-0.00028	mg/L	0.000596				215.85%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	1.5	0.00055	mg/L	0.002240				410.54%
Al 308.215†	37.0	0.07198	mg/L	0.016243				22.57%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-3.3	-0.00553	mg/L	0.011619				210.26%
Al 396.153†	28.3	0.02205	mg/L	0.007724				35.03%
As 188.979†	0.4	0.05739	mg/L	0.150844				262.85%
As 193.696†	-0.9	-0.1836	mg/L	0.17147				93.41%
As 197.197†	2.4	0.3481	mg/L	0.11983				34.43%
B 208.889†	0.9	0.01344	mg/L	0.029447				219.14%
B 249.677†	1.8	0.00519	mg/L	0.004835				93.09%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	0.7	0.00095	mg/L	0.001668				176.23%
Ba 233.527†	3.9	0.00188	mg/L	0.001333				70.88%
Ba 455.403†	72.7	0.00068	mg/L	0.000032				4.68%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	-36.5	-0.00039	mg/L	0.000364				93.05%
Be 234.861†	1.8	0.00015	mg/L	0.000062				40.72%
Be 313.042†	-129.7	-0.00238	mg/L	0.000047				1.98%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-2.8	-0.00009	mg/L	0.000085				93.14%
Ca 315.887†	40.6	0.02612	mg/L	0.001101				4.21%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	302.7	0.2250	mg/L	0.00171				0.76%
Cd 214.440†	0.4	0.00057	mg/L	0.001089				191.26%
Cd 226.502†	1.0	0.00166	mg/L	0.001670				100.51%
Cd 228.802†	0.5	0.00274	mg/L	0.003312				121.00%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	8.0	0.00690	mg/L	0.012609				182.77%
Ce 413.764†	-10.0	-0.01002	mg/L	0.004200				41.93%
Ce 418.660†	176.2	0.1309	mg/L	0.02543				19.43%
Co 228.616†	1.3	0.00213	mg/L	0.004049				189.99%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	5.9	0.01033	mg/L	0.001735				16.79%
Co 238.892†	-1.1	-0.00329	mg/L	0.004986				151.34%
Cr 205.560†	-1.0	-0.01136	mg/L	0.008557				75.31%
Cr 267.716†	-0.3	-0.00054	mg/L	0.005636				>999.9%
Cr 283.563†	-23.1	-0.00625	mg/L	0.002220				35.52%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-13.0	-0.08122	mg/L	0.015721				19.36%
Cu 324.752†	-322.8	-0.06861	mg/L	0.000698				1.02%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-154.5	-0.07422	mg/L	0.002038				2.75%
Fe 238.204†	41.4	0.03583	mg/L	0.006971				19.45%
Fe 239.562†	31.2	0.04082	mg/L	0.007306				17.90%
Fe 259.939†	87.6	0.03699	mg/L	0.004710				12.73%

Fe 273.955†	4.8	0.01570	mg/L	0.017305	110.22%
QC value within limits for Fe 273.955 Recovery = Not calculated					
K 766.490†	277.1	0.2552	mg/L	0.02609	10.22%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated					
Li 610.362†	409.1	0.08110	mg/L	0.109305	134.78%
Li 670.784†	-275.2	-0.00669	mg/L	0.002304	34.43%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	13.6	0.04724	mg/L	0.024845	52.59%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	1884.0	0.03430	mg/L	0.003232	9.42%
Mg 285.213†	123.5	0.03475	mg/L	0.003178	9.15%
Mn 257.610†	2.8	0.00029	mg/L	0.000398	139.24%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	0.6	0.00009	mg/L	0.000058	67.88%
Mn 260.568†	-3.0	-0.00054	mg/L	0.000070	12.98%
Mo 202.031†	0.8	0.02611	mg/L	0.058234	223.04%
Mo 203.845†	-0.8	-0.05229	mg/L	0.009839	18.82%
Mo 204.597†	-0.3	-0.00677	mg/L	0.036544	539.62%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	1558.5	0.2108	mg/L	0.03748	17.78%
Na 589.592†	351.8	0.07308	mg/L	0.012336	16.88%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	1.4	0.02062	mg/L	0.017911	86.88%
Ni 231.604†	2.6	0.01179	mg/L	0.009426	79.95%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-2.0	-0.01447	mg/L	0.032959	227.78%
Pb 217.000†	2.9	0.1507	mg/L	0.05010	33.25%
Pb 220.353†	1.2	0.02368	mg/L	0.036217	152.95%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.8	-0.04595	mg/L	0.060989	132.74%
Sb 217.582†	0.4	0.02847	mg/L	0.075585	265.48%
Sb 231.146†	-1.1	-0.05401	mg/L	0.110150	203.95%
Se 196.026†	1.1	0.2213	mg/L	0.25224	113.97%
Se 203.985†	-0.1	-0.02177	mg/L	0.260240	>999.9%
Sn 189.927†	0.3	0.05535	mg/L	0.157402	284.38%
Sn 235.485†	-5.5	-0.1824	mg/L	0.03300	18.09%
Sn 283.998†	3.9	0.01678	mg/L	0.011297	67.33%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	12.3	0.00006	mg/L	0.000050	90.59%
Sr 421.552†	97.7	0.00102	mg/L	0.000168	16.38%
Sr 460.733†	9.5	0.00418	mg/L	0.030090	719.02%
Ti 334.940†	-2.8	-0.00014	mg/L	0.000327	242.15%
Ti 336.121†	5.7	0.00042	mg/L	0.000718	172.70%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-19.4	-0.00294	mg/L	0.000123	4.19%
Tl 190.801†	-0.1	-0.01574	mg/L	0.274929	>999.9%
Tl 276.787†	-9.0	-0.1162	mg/L	0.06287	54.09%
Tl 351.924†	6.0	0.05633	mg/L	0.011840	21.02%
V 290.880†	-8.0	-0.00439	mg/L	0.003928	89.37%
V 309.310†	58.8	0.01043	mg/L	0.001047	10.03%
V 310.230†	183.9	0.02958	mg/L	0.004317	14.60%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-1.6	-0.00681	mg/L	0.000676	9.92%
Zn 206.200†	-3.3	-0.01216	mg/L	0.009465	77.86%
Zn 213.857†	-6.7	-0.00915	mg/L	0.001164	12.72%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 9/3/03 1:11:58 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	165333.9						1157.04	0.70%
Ag 328.068†	1009.5	0.2509	mg/L	0.00356				1.42%

QC value within limits for Ag 328.068 Recovery = 100.34%				
Ag 338.289†	698.5	0.2495 mg/L	0.00113	0.45%
Al 308.215†	567.5	1.081 mg/L	0.0223	2.07%
QC value within limits for Al 308.215 Recovery = 108.11%				
Al 394.401†	657.6	0.9529 mg/L	0.02484	2.61%
Al 396.153†	1314.9	1.018 mg/L	0.0173	1.70%
As 188.979†	13.8	1.982 mg/L	0.1172	5.91%
As 193.696†	9.7	1.920 mg/L	0.2151	11.20%
As 197.197†	15.0	2.217 mg/L	0.2355	10.62%
B 208.889†	66.4	0.9437 mg/L	0.02284	2.42%
B 249.677†	347.1	0.9933 mg/L	0.00483	0.49%
QC value within limits for B 249.677 Recovery = 99.33%				
B 249.772†	729.6	1.006 mg/L	0.0103	1.02%
Ba 233.527†	2137.5	1.038 mg/L	0.0111	1.07%
Ba 455.403†	113271.7	1.035 mg/L	0.0013	0.13%
QC value within limits for Ba 455.403 Recovery = 103.49%				
Ba 493.408†	92957.9	1.029 mg/L	0.0007	0.07%
Be 234.861†	11621.5	1.007 mg/L	0.0084	0.83%
Be 313.042†	55840.3	1.023 mg/L	0.0009	0.08%
QC value within limits for Be 313.042 Recovery = 102.29%				
Be 313.107†	31317.0	1.031 mg/L	0.0012	0.12%
Ca 315.887†	1727.0	1.110 mg/L	0.0187	1.69%
Ca 317.933†	1725.9	1.281 mg/L	0.0261	2.04%
QC value greater than the upper limit for Ca 317.933 Recovery = 128.05%				
Cd 214.440†	733.4	1.039 mg/L	0.0090	0.87%
Cd 226.502†	619.1	1.018 mg/L	0.0056	0.55%
Cd 228.802†	786.5	0.8882 mg/L	0.01142	1.29%
QC value less than the lower limit for Cd 228.802 Recovery = 88.82%				
Ce 413.380†	1208.3	1.042 mg/L	0.0153	1.47%
Ce 413.764†	997.3	0.9986 mg/L	0.01726	1.73%
Ce 418.660†	1641.9	1.218 mg/L	0.0371	3.04%
Co 228.616†	630.6	1.057 mg/L	0.0092	0.87%
QC value within limits for Co 228.616 Recovery = 105.73%				
Co 230.786†	579.9	1.019 mg/L	0.0134	1.31%
Co 238.892†	341.9	0.9957 mg/L	0.02277	2.29%
Cr 205.560†	89.7	0.9802 mg/L	0.03042	3.10%
Cr 267.716†	527.9	1.031 mg/L	0.0237	2.30%
Cr 283.563†	3638.5	0.9835 mg/L	0.01667	1.70%
QC value within limits for Cr 283.563 Recovery = 98.35%				
Cu 224.700†	150.7	0.9354 mg/L	0.01184	1.27%
Cu 324.752†	4675.1	0.9923 mg/L	0.00421	0.42%
QC value within limits for Cu 324.752 Recovery = 99.23%				
Cu 327.393†	2056.4	0.9860 mg/L	0.01230	1.25%
Fe 238.204†	1301.7	1.140 mg/L	0.0090	0.79%
Fe 239.562†	869.4	1.148 mg/L	0.0143	1.24%
Fe 259.939†	2681.8	1.145 mg/L	0.0142	1.24%
QC value greater than the upper limit for Fe 259.939 Recovery = 114.52%				
Fe 273.955†	366.4	1.204 mg/L	0.0296	2.46%
K 766.490†	5323.5	4.903 mg/L	0.0783	1.60%
QC value within limits for K 766.490 Recovery = 98.07%				
Li 610.362†	6438.7	1.244 mg/L	0.0444	3.57%
Li 670.784†	41759.2	1.014 mg/L	0.0023	0.22%
QC value less than the lower limit for Li 670.784 Recovery = 20.28%				
Mg 279.077†	301.5	1.050 mg/L	0.0235	2.24%
Mg 280.271†	57126.4	1.039 mg/L	0.0021	0.20%
QC value within limits for Mg 280.271 Recovery = 103.93%				
Mg 285.213†	3744.7	1.053 mg/L	0.0141	1.34%
Mn 257.610†	9984.2	1.021 mg/L	0.0041	0.40%
QC value within limits for Mn 257.610 Recovery = 102.12%				
Mn 259.372†	9503.9	1.012 mg/L	0.0031	0.31%
Mn 260.568†	5704.7	0.9983 mg/L	0.01062	1.06%
Mo 202.031†	0.9	0.02860 mg/L	0.038651	135.13%
Mo 203.845†	0.4	0.02653 mg/L	0.114652	432.17%
Mo 204.597†	-0.1	-0.00359 mg/L	0.047884	>999.9%
Na 588.995†	9394.8	1.271 mg/L	0.0199	1.57%
Na 589.592†	5306.3	1.102 mg/L	0.0121	1.10%
Ni 221.648†	68.2	1.013 mg/L	0.0300	2.96%
Ni 231.604†	226.9	1.025 mg/L	0.0086	0.84%
QC value within limits for Ni 231.604 Recovery = 102.53%				
Ni 232.003†	141.6	1.013 mg/L	0.0146	1.44%
Pb 217.000†	38.5	2.007 mg/L	0.0464	2.31%

Pb 220.353†	99.1	2.054	mg/L	0.0434	2.11%
QC value within limits for Pb 220.353 Recovery = 102.70%					
Sb 206.836†	-0.4	-0.04384	mg/L	0.104860	239.18%
Sb 217.582†	-0.1	-0.01067	mg/L	0.062687	587.65%
Sb 231.146†	5.9	0.1549	mg/L	0.07161	46.24%
Se 196.026†	6.5	1.264	mg/L	0.5138	40.65%
Se 203.985†	5.0	0.7757	mg/L	0.40439	52.13%
Sn 189.927†	0.5	0.1092	mg/L	0.06757	61.88%
Sn 235.485†	16.4	0.1227	mg/L	0.07702	62.77%
Sn 283.998†	171.2	0.08262	mg/L	0.023246	28.14%
Sr 407.771†	225108.7	1.011	mg/L	0.0009	0.09%
Sr 421.552†	95928.1	1.006	mg/L	0.0007	0.07%
Sr 460.733†	2262.2	1.009	mg/L	0.0284	2.81%
Ti 334.940†	3.9	-0.00023	mg/L	0.000159	67.94%
Ti 336.121†	-7.2	-0.00062	mg/L	0.000425	68.92%
Ti 337.279†	-17.3	-0.00249	mg/L	0.000523	20.95%
Tl 190.801†	23.2	5.286	mg/L	0.1221	2.31%
Tl 276.787†	378.4	4.830	mg/L	0.0179	0.37%
Tl 351.924†	545.8	5.166	mg/L	0.0881	1.71%
V 290.880†	1834.8	1.007	mg/L	0.0104	1.03%
V 309.310†	5751.5	1.038	mg/L	0.0073	0.70%
V 310.230†	6368.6	1.023	mg/L	0.0063	0.62%
QC value within limits for V 310.230 Recovery = 102.33%					
Zn 202.548†	233.0	1.051	mg/L	0.0124	1.18%
Zn 206.200†	267.4	0.9956	mg/L	0.02129	2.14%
Zn 213.857†	787.5	1.060	mg/L	0.0182	1.72%
QC value within limits for Zn 213.857 Recovery = 106.04%					

QC Failed. Continue with analysis.

meeting

==========

Analysis Begun

Start Time: 9/3/03 2:56:20 PM **Plasma On Time: 9/3/03 10:34:48 AM**
Logged In Analyst: KSWAN **Technique: ICP Continuous**
Spectrometer Model: Optima 3300 DV **Autosampler Model: AS-91**

Sample Information File: D:\KSWAN\Sample Information\0305007 090303 dil.sif
Results Data Set: 0305007 090303 dil
Results Library: D:\KSWAN\Results\Results.mdb

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 9/3/03 2:56:20 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158757.4						1677.82	1.06%
Ag 328.068†	-12.2	-0.00028	mg/L	0.000263				93.38%
Ag 338.289†	16.0	0.00628	mg/L	0.001727				27.48%
Al 308.215†	57.6	0.1013	mg/L	0.00735				7.25%
Al 394.401†	-52.0	-0.08076	mg/L	0.015261				18.90%
Al 396.153†	-256.0	-0.2284	mg/L	0.00992				4.34%
As 188.979†	0.9	0.1271	mg/L	0.07250				57.06%
As 193.696†	-0.4	-0.08928	mg/L	0.167121				187.18%
As 197.197†	1.1	0.1541	mg/L	0.31403				203.76%
B 208.889†	5.3	0.07593	mg/L	0.056974				75.04%
B 249.677†	-0.5	-0.00126	mg/L	0.002764				220.14%
B 249.772†	-1.9	-0.00231	mg/L	0.005201				224.69%
Ba 233.527†	-2.3	-0.00042	mg/L	0.001796				430.84%
Ba 455.403†	281.3	0.00250	mg/L	0.000180				7.19%
Ba 493.408†	52.9	0.00052	mg/L	0.000252				49.01%
Be 234.861†	-1.1	-0.00001	mg/L	0.000121				>999.9%
Be 313.042†	-179.4	-0.00331	mg/L	0.000017				0.51%
Be 313.107†	-2.9	-0.00011	mg/L	0.000108				94.37%
Ca 315.887†	23.9	0.01559	mg/L	0.001617				10.37%
Ca 317.933†	370.3	0.2759	mg/L	0.00965				3.50%

Cd 214.440†	0.8	0.00127 mg/L	0.000523	41.31%
Cd 226.502†	2.9	0.00465 mg/L	0.005535	118.98%
Cd 228.802†	0.1	0.00103 mg/L	0.002833	275.78%
Ce 413.380†	-11.1	-0.00972 mg/L	0.009377	96.50%
Ce 413.764†	-5.7	-0.00610 mg/L	0.012418	203.42%
Ce 418.660†	748.1	0.5553 mg/L	0.01706	3.07%
Co 228.616†	4.3	0.00606 mg/L	0.003090	51.01%
Co 230.786†	4.0	0.00664 mg/L	0.001405	21.16%
Co 238.892†	1.1	0.00372 mg/L	0.003504	94.31%
Cr 205.560†	-2.2	-0.02484 mg/L	0.025419	102.31%
Cr 267.716†	0.8	0.00150 mg/L	0.005821	388.57%
Cr 283.563†	-47.1	-0.01291 mg/L	0.000771	5.97%
Cu 224.700†	-10.7	-0.06991 mg/L	0.017268	24.70%
Cu 324.752†	-176.5	-0.03976 mg/L	0.000894	2.25%
Cu 327.393†	-92.5	-0.04658 mg/L	0.001877	4.03%
Fe 238.204†	60.4	0.05437 mg/L	0.001411	2.60%
Fe 239.562†	42.6	0.05784 mg/L	0.006875	11.89%
Fe 259.939†	139.5	0.06121 mg/L	0.001824	2.98%
Fe 273.955†	-5.5	-0.01602 mg/L	0.015349	95.81%
K 766.490†	53.5	0.04930 mg/L	0.072169	146.38%
Li 610.362†	2328.9	0.4577 mg/L	0.10679	23.33%
Li 670.784†	228.1	0.00569 mg/L	0.002484	43.69%
Mg 279.077†	4.6	0.01662 mg/L	0.008871	53.38%
Mg 280.271†	294.2	0.00539 mg/L	0.000386	7.16%
Mg 285.213†	17.0	0.00487 mg/L	0.001103	22.64%
Mn 257.610†	4.2	0.00007 mg/L	0.000422	563.26%
Mn 259.372†	50.0	0.00047 mg/L	0.000742	159.25%
Mn 260.568†	8.0	0.00143 mg/L	0.000408	28.46%
Mo 202.031†	30.6	1.075 mg/L	0.0588	5.47%
Mo 203.845†	19.7	1.230 mg/L	0.0540	4.39%
Mo 204.597†	36.4	0.9241 mg/L	0.05416	5.86%
QC value within limits for Mo 204.597 Recovery = 92.41%				
Na 588.995†	1045.7	0.1414 mg/L	0.02166	15.32%
Na 589.592†	331.1	0.06877 mg/L	0.030274	44.02%
Ni 221.648†	-1.8	-0.02717 mg/L	0.027969	102.94%
Ni 231.604†	3.4	0.01487 mg/L	0.009169	61.65%
Ni 232.003†	-6.3	-0.05108 mg/L	0.035298	69.11%
Pb 217.000†	1.3	0.07099 mg/L	0.203800	287.08%
Pb 220.353†	1.3	0.03047 mg/L	0.012746	41.83%
Sb 206.836†	31.4	1.746 mg/L	0.1062	6.08%
QC value less than the lower limit for Sb 206.836 Recovery = 87.31%				
Sb 217.582†	31.6	2.225 mg/L	0.0282	1.27%
QC value greater than the upper limit for Sb 217.582 Recovery = 111.23%				
Sb 231.146†	42.6	2.062 mg/L	0.0422	2.05%
QC value within limits for Sb 231.146 Recovery = 103.10%				
Se 196.026†	0.6	0.1197 mg/L	0.11804	98.60%
Se 203.985†	-2.2	-0.4678 mg/L	0.37799	80.80%
Sn 189.927†	20.5	4.351 mg/L	0.0277	0.64%
Sn 235.485†	160.3	5.180 mg/L	0.0335	0.65%
Sn 283.998†	645.7	1.956 mg/L	0.0254	1.30%
QC value less than the lower limit for Sn 283.998 Recovery = 39.13%				
Sr 407.771†	81.6	0.00025 mg/L	0.000047	18.77%
Sr 421.552†	176.6	0.00174 mg/L	0.000134	7.70%
Sr 460.733†	-54.9	-0.02391 mg/L	0.010772	45.04%
Ti 334.940†	19379.8	0.9705 mg/L	0.00982	1.01%
Ti 336.121†	13495.4	0.9970 mg/L	0.00762	0.76%
QC value within limits for Ti 336.121 Recovery = 99.70%				
Ti 337.279†	6067.5	0.9182 mg/L	0.00105	0.11%
Tl 190.801†	1.2	0.2765 mg/L	0.31624	114.37%
Tl 276.787†	-3.5	-0.04303 mg/L	0.044485	103.38%
Tl 351.924†	7.3	0.06574 mg/L	0.103609	157.60%
V 290.880†	-11.7	-0.00646 mg/L	0.001436	22.23%
V 309.310†	53.0	0.00960 mg/L	0.001682	17.52%
V 310.230†	290.6	0.04681 mg/L	0.004725	10.10%
Zn 202.548†	1.9	0.00970 mg/L	0.006575	67.80%
Zn 206.200†	-1.0	-0.00297 mg/L	0.001204	40.50%
Zn 213.857†	4.5	0.00661 mg/L	0.000546	8.26%

QC Failed. Continue with analysis.

Sample ID: Hi AQC **Date Collected: 9/3/03 3:00:07 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160206.5						1403.97	0.88%
Ag 328.068†	-6.1	-0.00044	mg/L	0.003825				871.51%
Ag 338.289†	8.8	0.00946	mg/L	0.001731				18.30%
Al 308.215†	49914.8	97.08	mg/L	0.197				0.20%
QC value within limits for Al 308.215 Recovery = 97.08%								
Al 394.401†	61688.4	96.04	mg/L	0.431				0.45%
Al 396.153†	130920.0	100.5	mg/L	0.45				0.45%
As 188.979†	1.8	0.1922	mg/L	0.25502				132.71%
As 193.696†	-2.2	-0.4206	mg/L	0.27842				66.19%
As 197.197†	1.2	0.4083	mg/L	0.34148				83.64%
B 208.889†	7.3	0.09821	mg/L	0.025654				26.12%
B 249.677†	-3.9	-0.00871	mg/L	0.001875				21.52%
B 249.772†	76.3	0.05074	mg/L	0.003516				6.93%
Ba 233.527†	13.4	-0.00270	mg/L	0.002164				80.24%
Ba 455.403†	274.8	0.00220	mg/L	0.000057				2.61%
Ba 493.408†	78.9	-0.00022	mg/L	0.000368				163.94%
Be 234.861†	93.3	0.00012	mg/L	0.001334				>999.9%
Be 313.042†	-185.1	-0.00358	mg/L	0.000038				1.06%
Be 313.107†	1.6	0.00004	mg/L	0.000302				763.48%
Ca 315.887†	161376.2	104.1	mg/L	0.37				0.36%
QC value within limits for Ca 315.887 Recovery = 104.06%								
Ca 317.933†	136199.3	101.2	mg/L	0.37				0.36%
Cd 214.440†	1.6	0.00466	mg/L	0.002346				50.38%
Cd 226.502†	9.9	0.01152	mg/L	0.005841				50.72%
Cd 228.802†	-1.3	0.00510	mg/L	0.000597				11.69%
Ce 413.380†	15.2	-0.00607	mg/L	0.003347				55.10%
Ce 413.764†	-2.2	-0.01018	mg/L	0.008925				87.65%
Ce 418.660†	822.4	0.6084	mg/L	0.01309				2.15%
Co 228.616†	3.1	0.00499	mg/L	0.002626				52.65%
Co 230.786†	2.4	0.00050	mg/L	0.004965				990.22%
Co 238.892†	87.0	0.08471	mg/L	0.016163				19.08%
Cr 205.560†	1.0	0.00972	mg/L	0.017538				180.40%
Cr 267.716†	-3.5	-0.00346	mg/L	0.000848				24.50%
Cr 283.563†	385.0	0.05620	mg/L	0.001982				3.53%
Cu 224.700†	-11.1	-0.08388	mg/L	0.002764				3.29%
Cu 324.752†	-270.8	-0.06016	mg/L	0.000374				0.62%
Cu 327.393†	-135.5	-0.06882	mg/L	0.003252				4.72%
Fe 238.204†	110362.6	95.94	mg/L	0.274				0.29%
Fe 239.562†	75446.8	99.02	mg/L	0.228				0.23%
Fe 259.939†	232035.4	98.48	mg/L	0.155				0.16%
Fe 273.955†	32235.9	105.9	mg/L	0.08				0.08%
QC value within limits for Fe 273.955 Recovery = 105.92%								
K 766.490†	101199.0	93.21	mg/L	0.385				0.41%
Li 610.362†	1416.2	0.2454	mg/L	0.06138				25.01%
Li 670.784†	904.4	0.02322	mg/L	0.002389				10.29%
Mg 279.077†	17127.2	59.66	mg/L	0.202				0.34%
QC value within limits for Mg 279.077 Recovery = 99.44%								
Mg 280.271†	3082625.9	56.12	mg/L	1.056				1.88%
Mg 285.213†	209534.6	58.94	mg/L	0.100				0.17%
Mn 257.610†	-5.9	-0.00337	mg/L	0.000564				16.72%
Mn 259.372†	1100.5	-0.00351	mg/L	0.001404				39.98%
Mn 260.568†	3.9	-0.00552	mg/L	0.000320				5.79%
Mo 202.031†	5.2	0.02150	mg/L	0.059580				277.14%
Mo 203.845†	3.3	0.1674	mg/L	0.06222				37.17%
Mo 204.597†	-0.9	-0.03402	mg/L	0.036396				106.97%
Na 588.995†	775453.0	104.9	mg/L	1.83				1.75%
Na 589.592†	470912.8	97.81	mg/L	1.824				1.86%
QC value within limits for Na 589.592 Recovery = 97.81%								
Ni 221.648†	1.7	0.03327	mg/L	0.041213				123.88%
Ni 231.604†	4.5	0.01896	mg/L	0.001286				6.78%
Ni 232.003†	-14.7	-0.1064	mg/L	0.02245				21.11%
Pb 217.000†	4.5	-0.09707	mg/L	0.079599				82.00%

Pb 220.353†	5.8	0.2115	mg/L	0.03383	16.00%
Sb 206.836†	2.0	0.08840	mg/L	0.090761	102.67%
Sb 217.582†	-2.9	-0.2411	mg/L	0.03214	13.33%
Sb 231.146†	-2.5	-0.1191	mg/L	0.05250	44.09%
Se 196.026†	-2.6	-0.5497	mg/L	0.19012	34.58%
Se 203.985†	2.5	0.3017	mg/L	0.42525	140.94%
Sn 189.927†	1.7	0.3393	mg/L	0.04119	12.14%
Sn 235.485†	1805.4	21.26	mg/L	0.741	3.48%
Sn 283.998†	-68.6	-0.09871	mg/L	0.012381	12.54%
Sr 407.771†	434.7	-0.00042	mg/L	0.000094	22.32%
Sr 421.552†	399.0	0.00157	mg/L	0.000158	10.05%
Sr 460.733†	70.0	0.02404	mg/L	0.056650	235.64%
Ti 334.940†	-27.0	0.00086	mg/L	0.000475	55.01%
Ti 336.121†	37.2	-0.00042	mg/L	0.001054	251.57%
Ti 337.279†	-13.2	-0.00336	mg/L	0.000817	24.32%
Tl 190.801†	-0.0	-0.00565	mg/L	0.090001	>999.9%
Tl 276.787†	172.4	0.8510	mg/L	0.13104	15.40%
Tl 351.924†	-2.1	-0.02800	mg/L	0.038320	136.84%
V 290.880†	-99.3	-0.04667	mg/L	0.006442	13.80%
V 309.310†	1404.0	-0.01353	mg/L	0.002527	18.67%
V 310.230†	259.0	0.03975	mg/L	0.003683	9.27%
Zn 202.548†	0.5	-0.00078	mg/L	0.001608	206.95%
Zn 206.200†	-5.3	-0.01423	mg/L	0.005092	35.79%
Zn 213.857†	14.8	0.01152	mg/L	0.004616	40.08%

All analytes passed QC.

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 9/3/03 3:04:01 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160412.2						3292.17	2.05%
Ag 328.068†	-1.1	-0.00027	mg/L	0.002319				855.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	14.5	0.00513	mg/L	0.001649				32.14%
Al 308.215†	49.1	0.09545	mg/L	0.004466				4.68%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-54.2	-0.08381	mg/L	0.009865				11.77%
Al 396.153†	-339.5	-0.2609	mg/L	0.00134				0.51%
As 188.979†	0.1	0.01648	mg/L	0.054950				333.38%
As 193.696†	-0.6	-0.1216	mg/L	0.07310				60.11%
QC value less than the lower limit for As 193.696 Recovery = Not calculated								
As 197.197†	0.2	0.02582	mg/L	0.027505				106.51%
B 208.889†	3.4	0.04780	mg/L	0.019628				41.06%
B 249.677†	3.6	0.01022	mg/L	0.007480				73.16%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	3.5	0.00485	mg/L	0.003874				79.91%
Ba 233.527†	4.2	0.00204	mg/L	0.001305				63.97%
Ba 455.403†	192.3	0.00177	mg/L	0.000193				10.86%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	19.7	0.00023	mg/L	0.000366				156.23%
Be 234.861†	-1.9	-0.00016	mg/L	0.000290				180.44%
Be 313.042†	-193.8	-0.00356	mg/L	0.000127				3.56%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	0.8	0.00003	mg/L	0.000332				>999.9%
Ca 315.887†	8.9	0.00575	mg/L	0.003800				66.08%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	374.2	0.2781	mg/L	0.01388				4.99%
Cd 214.440†	-2.5	-0.00347	mg/L	0.002708				77.94%
Cd 226.502†	1.0	0.00164	mg/L	0.006770				413.89%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	1.0	0.00267	mg/L	0.004074				152.65%
Ce 413.380†	-8.7	-0.00747	mg/L	0.008570				114.72%
Ce 413.764†	5.9	0.00594	mg/L	0.004230				71.21%
Ce 418.660†	784.9	0.5829	mg/L	0.01770				3.04%

Co 228.616†	3.9	0.00654	mg/L	0.003309	50.57%
QC value within limits for Co 228.616 Recovery = Not calculated					
Co 230.786†	0.6	0.00107	mg/L	0.008534	799.97%
Co 238.892†	-0.3	-0.00084	mg/L	0.008778	>999.9%
Cr 205.560†	-0.4	-0.00384	mg/L	0.016327	424.73%
Cr 267.716†	3.4	0.00662	mg/L	0.003137	47.37%
Cr 283.563†	-45.9	-0.01238	mg/L	0.002337	18.88%
QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	-17.9	-0.1118	mg/L	0.00343	3.07%
Cu 324.752†	-361.1	-0.07678	mg/L	0.000929	1.21%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	-177.8	-0.08544	mg/L	0.004997	5.85%
Fe 238.204†	10.1	0.00868	mg/L	0.006331	72.96%
Fe 239.562†	9.9	0.01291	mg/L	0.007029	54.46%
Fe 259.939†	29.5	0.01236	mg/L	0.004560	36.89%
QC value within limits for Fe 259.939 Recovery = Not calculated					
Fe 273.955†	-6.2	-0.02061	mg/L	0.014757	71.60%
K 766.490†	88.7	0.08167	mg/L	0.024650	30.18%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	1854.4	0.3667	mg/L	0.13049	35.59%
Li 670.784†	-313.3	-0.00761	mg/L	0.000340	4.47%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	6.9	0.02423	mg/L	0.005262	21.72%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	836.3	0.01523	mg/L	0.002706	17.77%
Mg 285.213†	57.4	0.01613	mg/L	0.002049	12.70%
Mn 257.610†	-4.0	-0.00041	mg/L	0.000715	172.83%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	-2.8	-0.00029	mg/L	0.000244	85.50%
Mn 260.568†	-2.8	-0.00049	mg/L	0.000814	166.23%
Mo 202.031†	-0.0	-0.00050	mg/L	0.022115	>999.9%
Mo 203.845†	1.5	0.09555	mg/L	0.220613	230.88%
Mo 204.597†	0.1	0.00212	mg/L	0.010415	490.20%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	1447.7	0.1958	mg/L	0.01232	6.29%
QC value greater than the upper limit for Na 588.995 Recovery = Not calculated					
Na 589.592†	399.2	0.08291	mg/L	0.024780	29.89%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	-0.3	-0.00515	mg/L	0.037813	734.04%
Ni 231.604†	4.9	0.02231	mg/L	0.003494	15.66%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-6.9	-0.05175	mg/L	0.026754	51.70%
Pb 217.000†	1.3	0.06771	mg/L	0.031434	46.43%
Pb 220.353†	1.0	0.02019	mg/L	0.032711	162.02%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.9	-0.05109	mg/L	0.122691	240.17%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	1.2	0.08611	mg/L	0.075066	87.18%
Sb 231.146†	-1.8	-0.08842	mg/L	0.096263	108.87%
Se 196.026†	0.1	0.01093	mg/L	0.284279	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated					
Se 203.985†	-1.6	-0.2867	mg/L	0.44259	154.37%
Sn 189.927†	0.6	0.1258	mg/L	0.27331	217.23%
Sn 235.485†	-4.9	-0.1499	mg/L	0.09758	65.11%
QC value less than the lower limit for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	6.3	0.02065	mg/L	0.017604	85.27%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	8.8	0.00004	mg/L	0.000100	251.91%
Sr 421.552†	185.7	0.00195	mg/L	0.000163	8.36%
Sr 460.733†	13.2	0.00592	mg/L	0.029588	499.89%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-29.6	-0.00148	mg/L	0.000474	32.05%
Ti 336.121†	-11.5	-0.00086	mg/L	0.000325	37.85%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-19.9	-0.00301	mg/L	0.000969	32.14%
Tl 190.801†	-0.3	-0.06789	mg/L	0.274942	404.96%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-9.5	-0.1218	mg/L	0.04950	40.64%
Tl 351.924†	0.2	0.00209	mg/L	0.095036	>999.9%
V 290.880†	-12.8	-0.00703	mg/L	0.002046	29.09%
V 309.310†	59.1	0.01055	mg/L	0.000564	5.34%

V 310.230†	283.9	0.04568	mg/L	0.010300	22.55%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-3.7	-0.01606	mg/L	0.002761	17.19%
Zn 206.200†	-7.4	-0.02768	mg/L	0.004974	17.97%
Zn 213.857†	-9.3	-0.01267	mg/L	0.001739	13.72%
QC value within limits for Zn 213.857 Recovery = Not calculated					
QC Failed. Continue with analysis.					

Sequence No.: 6 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 9/3/03 3:07:50 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	162936.7						1924.76	1.18%
Ag 328.068†	-3.5	-0.00086	mg/L	0.002065				239.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	6.4	0.00226	mg/L	0.001637				72.39%
Al 308.215†	38.8	0.07540	mg/L	0.001863				2.47%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-53.8	-0.08413	mg/L	0.010682				12.70%
Al 396.153†	-362.1	-0.2778	mg/L	0.00809				2.91%
As 188.979†	0.3	0.04771	mg/L	0.122288				256.31%
As 193.696†	-0.4	-0.08763	mg/L	0.252316				287.94%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	0.2	0.02965	mg/L	0.213746				720.84%
B 208.889†	4.6	0.06553	mg/L	0.034928				53.30%
B 249.677†	-0.9	-0.00251	mg/L	0.006883				274.54%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	3.2	0.00448	mg/L	0.002783				62.19%
Ba 233.527†	1.9	0.00095	mg/L	0.001617				171.05%
Ba 455.403†	183.0	0.00168	mg/L	0.000111				6.60%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	-34.7	-0.00038	mg/L	0.000270				71.64%
Be 234.861†	-4.0	-0.00034	mg/L	0.000152				44.50%
Be 313.042†	-189.3	-0.00348	mg/L	0.000099				2.84%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	1.4	0.00004	mg/L	0.000172				382.73%
Ca 315.887†	-17.3	-0.01118	mg/L	0.007367				65.87%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	354.1	0.2632	mg/L	0.00780				2.97%
Cd 214.440†	-0.5	-0.00070	mg/L	0.003687				525.89%
Cd 226.502†	2.8	0.00455	mg/L	0.003417				75.06%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	-0.3	0.00069	mg/L	0.004278				623.52%
Ce 413.380†	8.3	0.00716	mg/L	0.003490				48.77%
Ce 413.764†	2.5	0.00255	mg/L	0.001931				75.74%
Ce 418.660†	812.9	0.6037	mg/L	0.00136				0.23%
Co 228.616†	3.1	0.00515	mg/L	0.004822				93.66%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	4.8	0.00843	mg/L	0.008074				95.75%
Co 238.892†	1.3	0.00378	mg/L	0.011172				295.87%
Cr 205.560†	-0.5	-0.00589	mg/L	0.010806				183.49%
Cr 267.716†	0.8	0.00161	mg/L	0.006489				402.12%
Cr 283.563†	-44.5	-0.01202	mg/L	0.000919				7.64%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-14.7	-0.09179	mg/L	0.014089				15.35%
Cu 324.752†	-369.5	-0.07852	mg/L	0.001157				1.47%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-185.2	-0.08897	mg/L	0.001566				1.76%
Fe 238.204†	-13.9	-0.01217	mg/L	0.003729				30.65%
Fe 239.562†	-5.5	-0.00738	mg/L	0.003059				41.44%
Fe 259.939†	-17.1	-0.00736	mg/L	0.000790				10.73%
QC value within limits for Fe 259.939 Recovery = Not calculated								
Fe 273.955†	-15.8	-0.05195	mg/L	0.003648				7.02%
K 766.490†	-20.9	-0.01928	mg/L	0.108918				564.82%

QC value within limits for K 766.490 Recovery = Not calculated

Li 610.362†	1255.5	0.2482	mg/L	0.10202	41.11%
Li 670.784†	-318.5	-0.00774	mg/L	0.001065	13.77%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	2.3	0.00812	mg/L	0.009204	113.35%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mg 280.271†	311.7	0.00567	mg/L	0.000216	3.82%
Mg 285.213†	21.9	0.00616	mg/L	0.000624	10.14%
Mn 257.610†	-3.3	-0.00033	mg/L	0.000452	136.37%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mn 259.372†	-3.4	-0.00027	mg/L	0.000336	123.30%
Mn 260.568†	-3.1	-0.00055	mg/L	0.000299	54.79%
Mo 202.031†	0.5	0.01768	mg/L	0.047214	266.99%
Mo 203.845†	1.6	0.1002	mg/L	0.04456	44.49%
Mo 204.597†	-0.3	-0.00666	mg/L	0.018370	275.96%

QC value within limits for Mo 204.597 Recovery = Not calculated

Na 588.995†	1091.9	0.1477	mg/L	0.03596	24.35%

QC value greater than the upper limit for Na 588.995 Recovery = Not calculated

Na 589.592†	-1.1	-0.00023	mg/L	0.009171	>999.9%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 221.648†	0.9	0.01264	mg/L	0.018157	143.70%
Ni 231.604†	3.8	0.01715	mg/L	0.008545	49.84%

QC value within limits for Ni 231.604 Recovery = Not calculated

Ni 232.003†	-7.7	-0.05707	mg/L	0.018035	31.60%
Pb 217.000†	0.8	0.04064	mg/L	0.078730	193.72%
Pb 220.353†	2.6	0.05375	mg/L	0.021999	40.93%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	-1.1	-0.06122	mg/L	0.084816	138.54%

QC value within limits for Sb 206.836 Recovery = Not calculated

Sb 217.582†	-1.0	-0.07202	mg/L	0.123505	171.49%
Sb 231.146†	-0.3	-0.01467	mg/L	0.050283	342.71%
Se 196.026†	0.6	0.1272	mg/L	0.43604	342.78%

QC value greater than the upper limit for Se 196.026 Recovery = Not calculated

Se 203.985†	-2.0	-0.3704	mg/L	0.28108	75.89%
Sn 189.927†	0.2	0.05155	mg/L	0.276932	537.25%
Sn 235.485†	-3.9	-0.1064	mg/L	0.01731	16.26%

QC value less than the lower limit for Sn 235.485 Recovery = Not calculated

Sn 283.998†	4.8	0.01703	mg/L	0.019658	115.40%

QC value within limits for Sn 283.998 Recovery = Not calculated

Sr 407.771†	18.0	0.00008	mg/L	0.000008	10.00%
Sr 421.552†	215.1	0.00226	mg/L	0.000097	4.29%
Sr 460.733†	-12.4	-0.00563	mg/L	0.013509	239.91%

QC value within limits for Sr 460.733 Recovery = Not calculated

Ti 334.940†	-29.0	-0.00145	mg/L	0.000112	7.71%
Ti 336.121†	-20.5	-0.00152	mg/L	0.000762	50.11%

QC value within limits for Ti 336.121 Recovery = Not calculated

Ti 337.279†	-24.0	-0.00363	mg/L	0.001289	35.48%
Tl 190.801†	0.7	0.1581	mg/L	0.23528	148.86%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

Tl 276.787†	-10.0	-0.1284	mg/L	0.03816	29.71%
Tl 351.924†	5.6	0.05317	mg/L	0.095582	179.77%
V 290.880†	-10.7	-0.00589	mg/L	0.000764	12.99%
V 309.310†	63.3	0.01138	mg/L	0.000976	8.58%
V 310.230†	272.0	0.04376	mg/L	0.006416	14.66%

QC value within limits for V 310.230 Recovery = Not calculated

Zn 202.548†	-4.0	-0.01754	mg/L	0.003895	22.21%
Zn 206.200†	-6.0	-0.02224	mg/L	0.006208	27.91%
Zn 213.857†	-10.9	-0.01476	mg/L	0.000579	3.92%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 7 **Autosampler Location: 19**
Sample ID: RLC **Date Collected: 9/3/03 3:11:39 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: RLC

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	161735.4						1364.49	0.84%
Ag 328.068†	39.2	0.00979	mg/L	0.001438	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	33.3	0.01196	mg/L	0.002078	0.000	mg/kg	0.0000	0.00%
Al 308.215†	296.1	0.5736	mg/L	0.00304	0.000	mg/kg	0.0000	0.00%
Al 394.401†	259.5	0.4041	mg/L	0.00374	0.000	mg/kg	0.0000	0.00%
Al 396.153†	287.5	0.2176	mg/L	0.01184	0.000	mg/kg	0.0000	0.00%
As 188.979†	3.3	0.4781	mg/L	0.21504	0.000	mg/kg	0.0000	0.00%
As 193.696†	1.3	0.2503	mg/L	0.14305	0.000	mg/kg	0.0000	0.00%
As 197.197†	3.8	0.5668	mg/L	0.01076	0.000	mg/kg	0.0000	0.00%
B 208.889†	10.9	0.1559	mg/L	0.00439	0.000	mg/kg	0.0000	0.00%
B 249.677†	34.5	0.09887	mg/L	0.005052	0.000	mg/kg	0.0000	0.00%
B 249.772†	76.6	0.1054	mg/L	0.00245	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	27.6	0.01339	mg/L	0.001798	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	1407.8	0.01283	mg/L	0.000754	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	975.4	0.01076	mg/L	0.000550	0.000	mg/kg	0.0000	0.00%
Be 234.861†	56.8	0.00489	mg/L	0.000143	0.000	mg/kg	0.0000	0.00%
Be 313.042†	89.3	0.00161	mg/L	0.000066	0.000	mg/kg	0.0000	0.00%
Be 313.107†	152.9	0.00503	mg/L	0.000180	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	847.3	0.5463	mg/L	0.00475	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	1075.8	0.7997	mg/L	0.01083	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	38.1	0.05397	mg/L	0.001500	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	31.9	0.05236	mg/L	0.005798	0.000	mg/kg	0.0000	0.00%
Cd 228.802†	48.2	0.05279	mg/L	0.002905	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-7.1	-0.00622	mg/L	0.013837	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	0.1	-0.00005	mg/L	0.010853	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	815.4	0.6054	mg/L	0.01159	0.000	mg/kg	0.0000	0.00%
Co 228.616†	63.8	0.1071	mg/L	0.00159	0.000	mg/kg	0.0000	0.00%
Co 230.786†	58.9	0.1035	mg/L	0.00327	0.000	mg/kg	0.0000	0.00%
Co 238.892†	33.1	0.09595	mg/L	0.010395	0.000	mg/kg	0.0000	0.00%
Cr 205.560†	2.7	0.02955	mg/L	0.008260	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	27.6	0.05393	mg/L	0.006378	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	128.4	0.03454	mg/L	0.001289	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	-10.8	-0.06986	mg/L	0.007905	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-138.5	-0.02987	mg/L	0.001381	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	-83.4	-0.04050	mg/L	0.004450	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	569.9	0.4961	mg/L	0.00153	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	395.0	0.5191	mg/L	0.00849	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	1215.3	0.5165	mg/L	0.00635	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	154.2	0.5068	mg/L	0.00557	0.000	mg/kg	0.0000	0.00%
K 766.490†	636.3	0.5860	mg/L	0.03131	0.000	mg/kg	0.0000	0.00%
Li 610.362†	1778.7	0.3495	mg/L	0.04706	0.000	mg/kg	0.0000	0.00%
Li 670.784†	1573.7	0.03826	mg/L	0.001094	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	158.8	0.5532	mg/L	0.00646	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	28644.8	0.5213	mg/L	0.00359	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	1880.2	0.5287	mg/L	0.00221	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	43.7	0.00440	mg/L	0.000401	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	52.6	0.00455	mg/L	0.000369	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	25.8	0.00440	mg/L	0.000864	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	3.1	0.1085	mg/L	0.08211	0.000	mg/kg	0.0000	0.00%
Mo 203.845†	3.3	0.2048	mg/L	0.01493	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	3.4	0.08704	mg/L	0.025523	0.000	mg/kg	0.0000	0.00%
Na 588.995†	9255.4	1.252	mg/L	0.0039	0.000	mg/kg	0.0000	0.00%
Na 589.592†	4896.4	1.017	mg/L	0.0175	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	5.1	0.07530	mg/L	0.011771	0.000	mg/kg	0.0000	0.00%
Ni 231.604†	26.8	0.1209	mg/L	0.00786	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	7.7	0.05583	mg/L	0.014776	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	20.4	1.065	mg/L	0.1823	0.000	mg/kg	0.0000	0.00%
Pb 220.353†	52.5	1.082	mg/L	0.0340	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	6.6	0.3656	mg/L	0.08592	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	8.3	0.5854	mg/L	0.05363	0.000	mg/kg	0.0000	0.00%
Sb 231.146†	11.2	0.5305	mg/L	0.15242	0.000	mg/kg	0.0000	0.00%
Se 196.026†	3.0	0.5831	mg/L	0.40850	0.000	mg/kg	0.0000	0.00%
Se 203.985†	0.5	0.06672	mg/L	0.291694	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	0.3	0.06010	mg/L	0.290790	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	12.8	0.2402	mg/L	0.06510	0.000	mg/kg	0.0000	0.00%
Sn 283.998†	29.7	0.07684	mg/L	0.010923	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	1228.2	0.00550	mg/L	0.000133	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	789.9	0.00827	mg/L	0.000194	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	93.5	0.04195	mg/L	0.036169	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	163.1	0.00816	mg/L	0.000164	0.000	mg/kg	0.0000	0.00%

Ti 336.121†	121.2	0.00890	mg/L	0.000320	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	32.8	0.00497	mg/L	0.002221	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	5.4	1.221	mg/L	0.1371	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	67.3	0.8512	mg/L	0.06988	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	106.7	1.013	mg/L	0.0921	0.000	mg/kg	0.0000	0.00%
V 290.880†	84.9	0.04668	mg/L	0.000476	0.000	mg/kg	0.0000	0.00%
V 309.310†	352.6	0.06160	mg/L	0.001103	0.000	mg/kg	0.0000	0.00%
V 310.230†	565.3	0.09091	mg/L	0.004205	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	111.3	0.5052	mg/L	0.01569	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	115.2	0.4283	mg/L	0.00587	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	371.6	0.5015	mg/L	0.00491	0.000	mg/kg	0.0000	0.00%

Sequence No.: 8 **Autosampler Location: 21**
Sample ID: B307012-BLK1 **Date Collected: 9/3/03 3:15:23 PM**
Analyst:
Sample Wt: 0 g **Sample Prep Volume: 100 mL**
Dilution: 1X **Data Type: Original**

Mean Data: B307012-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	164419.2						2796.77	1.70%
Ag 328.068†	-12.1	-0.00299	mg/L	0.000281	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	20.5	0.00728	mg/L	0.003432	0.000	mg/kg	0.0000	0.00%
Al 308.215†	48.7	0.09433	mg/L	0.009381	0.000	mg/kg	0.0000	0.00%
Al 394.401†	-35.2	-0.05444	mg/L	0.005510	0.000	mg/kg	0.0000	0.00%
Al 396.153†	-374.9	-0.2883	mg/L	0.00288	0.000	mg/kg	0.0000	0.00%
As 188.979†	0.1	0.02092	mg/L	0.129743	0.00000	mg/kg	0.000000	0.00%
As 193.696†	0.4	0.08197	mg/L	0.110938	0.00000	mg/kg	0.000000	0.00%
As 197.197†	1.3	0.1928	mg/L	0.30883	0.00000	mg/kg	0.000000	0.00%
B 208.889†	5.1	0.07192	mg/L	0.019325	0.000	mg/kg	0.0000	0.00%
B 249.677†	1.9	0.00542	mg/L	0.003216	0.000	mg/kg	0.0000	0.00%
B 249.772†	5.8	0.00797	mg/L	0.000436	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	3.8	0.00185	mg/L	0.001882	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	238.0	0.00217	mg/L	0.000106	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	54.6	0.00060	mg/L	0.000311	0.000	mg/kg	0.0000	0.00%
Be 234.861†	0.8	0.00007	mg/L	0.000145	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-188.2	-0.00345	mg/L	0.000172	0.000	mg/kg	0.0000	0.00%
Be 313.107†	2.1	0.00007	mg/L	0.000123	0.00000	mg/kg	0.000000	0.00%
Ca 315.887†	72.7	0.04687	mg/L	0.003978	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	409.1	0.3041	mg/L	0.00894	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	1.6	0.00233	mg/L	0.001275	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	-0.9	-0.00142	mg/L	0.003325	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	0.8	-0.00007	mg/L	0.003473	0.00000	mg/kg	0.000000	0.00%
Ce 413.380†	-6.5	-0.00555	mg/L	0.003178	0.000	mg/kg	0.0000	0.00%
Ce 413.764†	5.3	0.00534	mg/L	0.007942	0.00000	mg/kg	0.000000	0.00%
Ce 418.660†	838.8	0.6230	mg/L	0.01608	0.000	mg/kg	0.0000	0.00%
Co 228.616†	1.3	0.00223	mg/L	0.002068	0.00000	mg/kg	0.000000	0.00%
Co 230.786†	4.1	0.00717	mg/L	0.001847	0.000	mg/kg	0.0000	0.00%
Co 238.892†	0.2	0.00063	mg/L	0.012872	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	-1.1	-0.01223	mg/L	0.018558	0.00000	mg/kg	0.000000	0.00%
Cr 267.716†	2.5	0.00493	mg/L	0.004702	0.000	mg/kg	0.0000	0.00%
Cr 283.563†	-39.2	-0.01057	mg/L	0.000053	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	-17.0	-0.1059	mg/L	0.01416	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-356.8	-0.07590	mg/L	0.000987	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	-172.7	-0.08301	mg/L	0.001117	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	-17.4	-0.01513	mg/L	0.002414	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	-8.1	-0.01060	mg/L	0.001379	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	-30.2	-0.01280	mg/L	0.001438	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	-16.0	-0.05268	mg/L	0.011658	0.000	mg/kg	0.0000	0.00%
K 766.490†	-12.2	-0.01125	mg/L	0.031917	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1156.9	0.2286	mg/L	0.13030	0.000	mg/kg	0.0000	0.00%
Li 670.784†	-550.9	-0.01336	mg/L	0.001708	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	12.0	0.04201	mg/L	0.017389	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	1460.0	0.02658	mg/L	0.000692	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	94.3	0.02651	mg/L	0.001561	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	-6.9	-0.00071	mg/L	0.000628	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	-2.7	-0.00028	mg/L	0.000311	0.00000	mg/kg	0.000000	0.00%
Mn 260.568†	-3.6	-0.00064	mg/L	0.000794	0.00000	mg/kg	0.000000	0.00%

Mo 202.031†	1.0	0.03468 mg/L	0.045335	0.00000 mg/kg	0.000000	0.00%
Mo 203.845†	1.2	0.07591 mg/L	0.077806	0.000 mg/kg	0.0000	0.00%
Mo 204.597†	0.3	0.00864 mg/L	0.040021	0.00000 mg/kg	0.000000	0.00%
Na 588.995†	970.4	0.1312 mg/L	0.04567	0.000 mg/kg	0.0000	0.00%
Na 589.592†	-42.2	-0.00877 mg/L	0.018581	0.00000 mg/kg	0.000000	0.00%
Ni 221.648†	1.3	0.01859 mg/L	0.011209	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	5.1	0.02295 mg/L	0.007130	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	-3.8	-0.02788 mg/L	0.014705	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	0.5	0.02779 mg/L	0.128782	0.00000 mg/kg	0.000000	0.00%
Pb 220.353†	1.1	0.02319 mg/L	0.021921	0.00000 mg/kg	0.000000	0.00%
Sb 206.836†	0.2	0.01303 mg/L	0.041879	0.00000 mg/kg	0.000000	0.00%
Sb 217.582†	0.2	0.01586 mg/L	0.062113	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	-1.3	-0.06253 mg/L	0.037840	0.000 mg/kg	0.0000	0.00%
Se 196.026†	1.1	0.2180 mg/L	0.15159	0.000 mg/kg	0.0000	0.00%
Se 203.985†	-0.2	-0.02946 mg/L	0.179037	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	-0.5	-0.1133 mg/L	0.26512	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	-2.3	-0.05579 mg/L	0.039271	0.000 mg/kg	0.0000	0.00%
Sn 283.998†	8.5	0.03089 mg/L	0.012110	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	0.4	0.00000 mg/L	0.000013	0.00000 mg/kg	0.000000	0.00%
Sr 421.552†	267.6	0.00280 mg/L	0.000055	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	46.7	0.02094 mg/L	0.015777	0.000 mg/kg	0.0000	0.00%
Ti 334.940†	-19.9	-0.00099 mg/L	0.000329	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	-7.7	-0.00058 mg/L	0.000343	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	-19.6	-0.00297 mg/L	0.000961	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	1.5	0.3425 mg/L	0.44524	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	-9.2	-0.1190 mg/L	0.06403	0.000 mg/kg	0.0000	0.00%
Tl 351.924†	-1.8	-0.01728 mg/L	0.067914	0.00000 mg/kg	0.000000	0.00%
V 290.880†	-10.8	-0.00591 mg/L	0.001638	0.000 mg/kg	0.0000	0.00%
V 309.310†	61.4	0.01090 mg/L	0.000751	0.000 mg/kg	0.0000	0.00%
V 310.230†	197.3	0.03174 mg/L	0.004182	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	0.9	0.00485 mg/L	0.004013	0.000 mg/kg	0.0000	0.00%
Zn 206.200†	-3.1	-0.01137 mg/L	0.005057	0.000 mg/kg	0.0000	0.00%
Zn 213.857†	2.6	0.00346 mg/L	0.002540	0.000 mg/kg	0.0000	0.00%

Sequence No.: 9
Sample ID: 0305007-06dil
Analyst:
Sample Wt: 0.6239 g
Dilution: 5X

Autosampler Location: 23
Date Collected: 9/3/03 3:19:08 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-06dil

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	162658.9						3281.51	2.02%
Ag 328.068†	-2.7	0.00032	mg/L	0.001524	0.2600	mg/kg	1.22151	469.89%
Ag 338.289†	2.5	0.01099	mg/L	0.002449	8.809	mg/kg	1.9629	22.28%
Al 308.215†	2408.2	4.687	mg/L	0.0769	3756	mg/kg	61.6	1.64%
Al 394.401†	2833.5	4.428	mg/L	0.0797	3549	mg/kg	63.8	1.80%
Al 396.153†	5915.7	4.543	mg/L	0.0154	3641	mg/kg	12.4	0.34%
As 188.979†	1.3	0.1806	mg/L	0.21690	144.7	mg/kg	173.83	120.10%
As 193.696†	-2.1	-0.4006	mg/L	0.30610	-321.0	mg/kg	245.31	76.42%
As 197.197†	0.6	0.1476	mg/L	0.23369	118.3	mg/kg	187.28	158.29%
B 208.889†	7.3	0.09362	mg/L	0.023123	75.03	mg/kg	18.531	24.70%
B 249.677†	8.4	0.02826	mg/L	0.010498	22.64	mg/kg	8.413	37.16%
B 249.772†	154.2	0.1296	mg/L	0.00183	103.8	mg/kg	1.46	1.41%
Ba 233.527†	201.7	0.08481	mg/L	0.003145	67.97	mg/kg	2.521	3.71%
Ba 455.403†	10318.4	0.09427	mg/L	0.000349	75.55	mg/kg	0.280	0.37%
Ba 493.408†	8416.8	0.09201	mg/L	0.000942	73.74	mg/kg	0.755	1.02%
Be 234.861†	125.6	-0.00083	mg/L	0.003012	-0.6649	mg/kg	2.41399	363.06%
Be 313.042†	-161.5	-0.00302	mg/L	0.000082	-2.421	mg/kg	0.0656	2.71%
Be 313.107†	12.5	0.00041	mg/L	0.000157	0.3256	mg/kg	0.12593	38.68%
Ca 315.887†	26319.9	16.98	mg/L	0.213	13600	mg/kg	170.5	1.25%
Ca 317.933†	22698.9	16.88	mg/L	0.180	13530	mg/kg	144.5	1.07%
Cd 214.440†	18.2	0.02423	mg/L	0.000864	19.42	mg/kg	0.693	3.57%
Cd 226.502†	20.4	0.02298	mg/L	0.005239	18.42	mg/kg	4.199	22.80%
Cd 228.802†	16.6	0.02639	mg/L	0.003229	21.15	mg/kg	2.588	12.24%
Ce 413.380†	47.7	0.01111	mg/L	0.005556	8.904	mg/kg	4.4527	50.01%
Ce 413.764†	16.7	0.00941	mg/L	0.006741	7.541	mg/kg	5.4023	71.64%
Ce 418.660†	901.1	0.6631	mg/L	0.02002	531.4	mg/kg	16.05	3.02%

Co 228.616†	11.1	0.01612	mg/L	0.001578	12.92	mg/kg	1.265	9.79%
Co 230.786†	7.1	0.00767	mg/L	0.005000	6.143	mg/kg	4.0071	65.23%
Co 238.892†	115.7	0.08629	mg/L	0.065089	69.15	mg/kg	52.163	75.43%
Cr 205.560†	29.6	0.3256	mg/L	0.00689	260.9	mg/kg	5.52	2.12%
Cr 267.716†	187.2	0.3700	mg/L	0.00032	296.5	mg/kg	0.25	0.09%
Cr 283.563†	1818.1	0.4192	mg/L	0.00823	335.9	mg/kg	6.60	1.96%
Cu 224.700†	19.5	0.1006	mg/L	0.00526	80.59	mg/kg	4.218	5.23%
Cu 324.752†	810.4	0.1690	mg/L	0.00393	135.5	mg/kg	3.15	2.33%
Cu 327.393†	317.8	0.1504	mg/L	0.00520	120.5	mg/kg	4.17	3.46%
Fe 238.204†	163364.8	142.0	mg/L	1.67	113800	mg/kg	1337.2	1.18%
Fe 239.562†	111947.1	146.9	mg/L	1.63	117700	mg/kg	1305.8	1.11%
Fe 259.939†	343684.2	145.9	mg/L	1.63	116900	mg/kg	1303.4	1.12%
Fe 273.955†	47995.4	157.7	mg/L	1.59	126400	mg/kg	1274.5	1.01%
K 766.490†	352.9	0.3251	mg/L	0.01842	260.5	mg/kg	14.76	5.67%
Li 610.362†	1245.0	0.2298	mg/L	0.14018	184.1	mg/kg	112.34	61.01%
Li 670.784†	-173.8	-0.00374	mg/L	0.000859	-2.998	mg/kg	0.6883	22.96%
Mg 279.077†	2072.0	7.172	mg/L	0.1513	5748	mg/kg	121.2	2.11%
Mg 280.271†	391732.6	7.119	mg/L	0.0740	5706	mg/kg	59.3	1.04%
Mg 285.213†	26168.1	7.349	mg/L	0.0602	5890	mg/kg	48.2	0.82%
Mn 257.610†	6428.2	0.6552	mg/L	0.00359	525.1	mg/kg	2.88	0.55%
Mn 259.372†	7543.8	0.6261	mg/L	0.00638	501.8	mg/kg	5.12	1.02%
Mn 260.568†	3518.2	0.6086	mg/L	0.01293	487.7	mg/kg	10.36	2.12%
Mo 202.031†	2.1	0.03702	mg/L	0.035650	29.67	mg/kg	28.570	96.29%
Mo 203.845†	1.2	0.04960	mg/L	0.153776	39.75	mg/kg	123.238	310.01%
Mo 204.597†	0.8	0.01718	mg/L	0.050909	13.77	mg/kg	40.799	296.29%
Na 588.995†	2012.0	0.2721	mg/L	0.04539	218.1	mg/kg	36.38	16.68%
Na 589.592†	601.3	0.1249	mg/L	0.01042	100.1	mg/kg	8.35	8.34%
Ni 221.648†	5.1	0.07491	mg/L	0.013699	60.04	mg/kg	10.978	18.29%
Ni 231.604†	21.8	0.09679	mg/L	0.003097	77.57	mg/kg	2.482	3.20%
Ni 232.003†	0.3	-0.01676	mg/L	0.015230	-13.44	mg/kg	12.205	90.84%
Pb 217.000†	20.7	0.9032	mg/L	0.09049	723.8	mg/kg	72.52	10.02%
Pb 220.353†	52.6	1.112	mg/L	0.0435	890.9	mg/kg	34.86	3.91%
Sb 206.836†	-0.8	-0.04613	mg/L	0.065785	-36.97	mg/kg	52.721	142.62%
Sb 217.582†	0.0	-0.05513	mg/L	0.040155	-44.18	mg/kg	32.181	72.84%
Sb 231.146†	-2.5	-0.1363	mg/L	0.06033	-109.2	mg/kg	48.35	44.26%
Se 196.026†	-0.2	-0.05106	mg/L	0.049386	-40.92	mg/kg	39.579	96.72%
Se 203.985†	1.4	0.1550	mg/L	0.25111	124.2	mg/kg	201.24	161.98%
Sn 189.927†	0.2	0.03141	mg/L	0.099506	25.18	mg/kg	79.745	316.75%
Sn 235.485†	2704.7	32.19	mg/L	1.375	25800	mg/kg	1102.2	4.27%
Sn 283.998†	12.3	0.01973	mg/L	0.002726	15.81	mg/kg	2.185	13.82%
Sr 407.771†	3915.7	0.01731	mg/L	0.000048	13.87	mg/kg	0.038	0.28%
Sr 421.552†	2042.3	0.02082	mg/L	0.000610	16.69	mg/kg	0.489	2.93%
Sr 460.733†	4.1	-0.00045	mg/L	0.009878	-0.3575	mg/kg	7.91638	>999.9%
Ti 334.940†	4561.4	0.2289	mg/L	0.00217	183.4	mg/kg	1.74	0.95%
Ti 336.121†	3119.3	0.2300	mg/L	0.00412	184.3	mg/kg	3.30	1.79%
Ti 337.279†	1382.0	0.2087	mg/L	0.00209	167.3	mg/kg	1.68	1.00%
Tl 190.801†	-0.5	-0.1398	mg/L	0.45585	-112.0	mg/kg	365.32	326.18%
Tl 276.787†	22.8	0.05356	mg/L	0.166681	42.93	mg/kg	133.580	311.19%
Tl 351.924†	4.0	0.03097	mg/L	0.101036	24.82	mg/kg	80.972	326.20%
V 290.880†	61.6	0.02666	mg/L	0.005957	21.37	mg/kg	4.774	22.34%
V 309.310†	336.8	0.04138	mg/L	0.000742	33.16	mg/kg	0.595	1.79%
V 310.230†	389.0	0.06265	mg/L	0.004563	50.21	mg/kg	3.656	7.28%
Zn 202.548†	379.9	1.719	mg/L	0.0279	1378	mg/kg	22.3	1.62%
Zn 206.200†	395.2	1.472	mg/L	0.0246	1180	mg/kg	19.7	1.67%
Zn 213.857†	1283.5	1.724	mg/L	0.0365	1382	mg/kg	29.3	2.12%

Sequence No.: 10
Sample ID: 0305007-13dil
Analyst:
Sample Wt: 0.5149 g
Dilution: 5X

Autosampler Location: 25
Date Collected: 9/3/03 3:22:55 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-13dil

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159291.1						1597.37	1.00%
Ag 328.068†	2.1	0.00125	mg/L	0.001746	1.217	mg/kg	1.6954	139.35%
Ag 338.289†	14.5	0.01250	mg/L	0.001353	12.14	mg/kg	1.314	10.82%
Al 308.215†	2587.1	5.033	mg/L	0.0571	4887	mg/kg	55.5	1.14%

Al 394.401†	3059.7	4.776	mg/L	0.0448	4638	mg/kg	43.5	0.94%
Al 396.153†	6270.5	4.814	mg/L	0.0248	4675	mg/kg	24.1	0.51%
As 188.979†	0.2	0.01987	mg/L	0.217310	19.30	mg/kg	211.022	>999.9%
As 193.696†	-1.1	-0.2013	mg/L	0.20210	-195.5	mg/kg	196.25	100.39%
As 197.197†	2.3	0.3989	mg/L	0.09663	387.4	mg/kg	93.83	24.22%
B 208.889†	7.7	0.1010	mg/L	0.00720	98.11	mg/kg	6.994	7.13%
B 249.677†	7.0	0.02322	mg/L	0.006591	22.55	mg/kg	6.400	28.39%
B 249.772†	110.4	0.09186	mg/L	0.004292	89.20	mg/kg	4.167	4.67%
Ba 233.527†	280.5	0.1268	mg/L	0.00379	123.1	mg/kg	3.68	2.99%
Ba 455.403†	14465.0	0.1321	mg/L	0.00134	128.3	mg/kg	1.30	1.01%
Ba 493.408†	11841.6	0.1302	mg/L	0.00144	126.5	mg/kg	1.40	1.11%
Be 234.861†	107.8	0.00081	mg/L	0.001953	0.7818	mg/kg	1.89688	242.64%
Be 313.042†	-151.6	-0.00284	mg/L	0.000093	-2.756	mg/kg	0.0906	3.29%
Be 313.107†	18.1	0.00059	mg/L	0.000093	0.5751	mg/kg	0.08988	15.63%
Ca 315.887†	28759.4	18.55	mg/L	0.116	18010	mg/kg	112.3	0.62%
Ca 317.933†	24736.3	18.39	mg/L	0.137	17860	mg/kg	133.5	0.75%
Cd 214.440†	12.9	0.01713	mg/L	0.000768	16.63	mg/kg	0.746	4.49%
Cd 226.502†	17.3	0.02087	mg/L	0.003331	20.26	mg/kg	3.234	15.96%
Cd 228.802†	12.9	0.01918	mg/L	0.005516	18.62	mg/kg	5.356	28.76%
Ce 413.380†	42.2	0.01453	mg/L	0.011207	14.11	mg/kg	10.882	77.12%
Ce 413.764†	15.2	0.00969	mg/L	0.003985	9.412	mg/kg	3.8698	41.12%
Ce 418.660†	885.3	0.6531	mg/L	0.01375	634.2	mg/kg	13.36	2.11%
Co 228.616†	11.2	0.01696	mg/L	0.002870	16.47	mg/kg	2.787	16.92%
Co 230.786†	7.1	0.00873	mg/L	0.002931	8.476	mg/kg	2.8461	33.58%
Co 238.892†	89.4	0.07777	mg/L	0.015755	75.52	mg/kg	15.299	20.26%
Cr 205.560†	44.2	0.4841	mg/L	0.00763	470.1	mg/kg	7.41	1.58%
Cr 267.716†	292.6	0.5746	mg/L	0.00668	557.9	mg/kg	6.48	1.16%
Cr 283.563†	2322.5	0.5756	mg/L	0.00555	559.0	mg/kg	5.39	0.96%
Cu 224.700†	53.3	0.3163	mg/L	0.01715	307.2	mg/kg	16.65	5.42%
Cu 324.752†	1862.0	0.3930	mg/L	0.00574	381.7	mg/kg	5.58	1.46%
Cu 327.393†	759.6	0.3628	mg/L	0.00673	352.3	mg/kg	6.54	1.86%
Fe 238.204†	119687.3	104.0	mg/L	0.71	101000	mg/kg	694.2	0.69%
Fe 239.562†	81996.3	107.6	mg/L	0.79	104500	mg/kg	762.4	0.73%
Fe 259.939†	251676.2	106.8	mg/L	0.81	103700	mg/kg	784.2	0.76%
Fe 273.955†	34961.6	114.9	mg/L	0.83	111500	mg/kg	803.7	0.72%
K 766.490†	559.6	0.5155	mg/L	0.06418	500.5	mg/kg	62.32	12.45%
Li 610.362†	2062.3	0.3920	mg/L	0.04538	380.7	mg/kg	44.07	11.58%
Li 670.784†	-47.9	-0.00072	mg/L	0.002072	-0.6948	mg/kg	2.01235	289.63%
Mg 279.077†	2022.6	7.013	mg/L	0.0672	6810	mg/kg	65.2	0.96%
Mg 280.271†	375278.5	6.823	mg/L	0.0401	6626	mg/kg	38.9	0.59%
Mg 285.213†	25034.2	7.033	mg/L	0.0158	6830	mg/kg	15.3	0.22%
Mn 257.610†	8434.2	0.8610	mg/L	0.00890	836.1	mg/kg	8.64	1.03%
Mn 259.372†	9032.2	0.8331	mg/L	0.00628	809.0	mg/kg	6.09	0.75%
Mn 260.568†	4768.7	0.8297	mg/L	0.00336	805.7	mg/kg	3.26	0.40%
Mo 202.031†	1.9	0.03176	mg/L	0.021695	30.84	mg/kg	21.068	68.31%
Mo 203.845†	3.9	0.2249	mg/L	0.20337	218.4	mg/kg	197.48	90.44%
Mo 204.597†	1.4	0.03342	mg/L	0.028461	32.45	mg/kg	27.638	85.17%
Na 588.995†	1977.5	0.2674	mg/L	0.02127	259.7	mg/kg	20.66	7.95%
Na 589.592†	803.5	0.1669	mg/L	0.01628	162.1	mg/kg	15.81	9.76%
Ni 221.648†	7.2	0.1068	mg/L	0.01213	103.7	mg/kg	11.78	11.36%
Ni 231.604†	32.9	0.1474	mg/L	0.01322	143.1	mg/kg	12.84	8.97%
Ni 232.003†	8.1	0.03415	mg/L	0.043027	33.16	mg/kg	41.781	125.99%
Pb 217.000†	24.0	1.121	mg/L	0.1603	1089	mg/kg	155.7	14.30%
Pb 220.353†	61.4	1.285	mg/L	0.0523	1248	mg/kg	50.8	4.07%
Sb 206.836†	-1.8	-0.1056	mg/L	0.05663	-102.6	mg/kg	54.99	53.61%
Sb 217.582†	2.2	0.1156	mg/L	0.09364	112.2	mg/kg	90.93	81.04%
Sb 231.146†	-0.9	-0.05751	mg/L	0.121847	-55.85	mg/kg	118.321	211.86%
Se 196.026†	1.9	0.3576	mg/L	0.28140	347.3	mg/kg	273.25	78.69%
Se 203.985†	1.6	0.1761	mg/L	0.35551	171.0	mg/kg	345.22	201.85%
Sn 189.927†	3.4	0.7267	mg/L	0.24947	705.6	mg/kg	242.25	34.33%
Sn 235.485†	2014.3	24.86	mg/L	0.629	24140	mg/kg	611.3	2.53%
Sn 283.998†	109.5	0.2093	mg/L	0.01570	203.2	mg/kg	15.24	7.50%
Sr 407.771†	4775.1	0.02110	mg/L	0.000212	20.49	mg/kg	0.206	1.01%
Sr 421.552†	2448.9	0.02510	mg/L	0.000076	24.38	mg/kg	0.073	0.30%
Sr 460.733†	97.6	0.04182	mg/L	0.010758	40.61	mg/kg	10.447	25.72%
Ti 334.940†	3410.8	0.1712	mg/L	0.00139	166.3	mg/kg	1.35	0.81%
Ti 336.121†	2409.7	0.1775	mg/L	0.00146	172.4	mg/kg	1.42	0.82%
Ti 337.279†	1051.8	0.1588	mg/L	0.00194	154.2	mg/kg	1.88	1.22%
Tl 190.801†	-0.2	-0.07708	mg/L	0.599002	-74.84	mg/kg	581.668	777.17%
Tl 276.787†	21.3	0.05220	mg/L	0.085208	50.69	mg/kg	82.742	163.24%
Tl 351.924†	6.4	0.05515	mg/L	0.171877	53.55	mg/kg	166.903	311.66%

V 290.880†	54.3	0.02506	mg/L	0.003114	24.33	mg/kg	3.024	12.43%
V 309.310†	356.6	0.04309	mg/L	0.001789	41.84	mg/kg	1.737	4.15%
V 310.230†	450.6	0.07245	mg/L	0.003764	70.35	mg/kg	3.655	5.20%
Zn 202.548†	761.0	3.447	mg/L	0.0320	3347	mg/kg	31.1	0.93%
Zn 206.200†	797.8	2.967	mg/L	0.0342	2881	mg/kg	33.2	1.15%
Zn 213.857†	2525.5	3.403	mg/L	0.0221	3305	mg/kg	21.4	0.65%

Sequence No.: 11 **Autosampler Location: 27**
Sample ID: 0305007-17dil **Date Collected: 9/3/03 3:26:46 PM**
Analyst:
Sample Wt: 0.5498 g **Sample Prep Volume: 100 mL**
Dilution: 5X **Data Type: Original**

Mean Data: 0305007-17dil

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	161677.8						1241.42	0.77%
Ag 328.068†	-1.8	0.00028	mg/L	0.000807	0.2567	mg/kg	0.73426	286.07%
Ag 338.289†	0.6	0.00647	mg/L	0.001827	5.887	mg/kg	1.6612	28.22%
Al 308.215†	2528.9	4.919	mg/L	0.0648	4474	mg/kg	58.9	1.32%
Al 394.401†	2991.9	4.669	mg/L	0.0549	4246	mg/kg	49.9	1.18%
Al 396.153†	6202.4	4.763	mg/L	0.0614	4331	mg/kg	55.9	1.29%
As 188.979†	0.5	0.06028	mg/L	0.122158	54.82	mg/kg	111.093	202.64%
As 193.696†	-0.5	-0.09661	mg/L	0.172184	-87.86	mg/kg	156.587	178.22%
As 197.197†	0.7	0.1559	mg/L	0.07643	141.7	mg/kg	69.50	49.04%
B 208.889†	4.0	0.04996	mg/L	0.061096	45.44	mg/kg	55.562	122.28%
B 249.677†	6.1	0.02004	mg/L	0.008475	18.23	mg/kg	7.707	42.29%
B 249.772†	100.7	0.08712	mg/L	0.001097	79.23	mg/kg	0.997	1.26%
Ba 233.527†	218.6	0.09799	mg/L	0.002491	89.12	mg/kg	2.265	2.54%
Ba 455.403†	11400.9	0.1041	mg/L	0.00153	94.71	mg/kg	1.394	1.47%
Ba 493.408†	9324.7	0.1025	mg/L	0.00164	93.19	mg/kg	1.492	1.60%
Be 234.861†	97.4	0.00110	mg/L	0.002434	1.005	mg/kg	2.2139	220.32%
Be 313.042†	-158.3	-0.00295	mg/L	0.000150	-2.686	mg/kg	0.1368	5.10%
Be 313.107†	18.4	0.00060	mg/L	0.000089	0.5486	mg/kg	0.08070	14.71%
Ca 315.887†	27354.0	17.64	mg/L	0.165	16040	mg/kg	149.7	0.93%
Ca 317.933†	23529.6	17.49	mg/L	0.182	15910	mg/kg	165.5	1.04%
Cd 214.440†	25.1	0.03466	mg/L	0.001411	31.52	mg/kg	1.283	4.07%
Cd 226.502†	20.0	0.02644	mg/L	0.002162	24.04	mg/kg	1.966	8.18%
Cd 228.802†	21.4	0.02749	mg/L	0.004457	25.00	mg/kg	4.054	16.21%
Ce 413.380†	30.9	0.00795	mg/L	0.003682	7.226	mg/kg	3.3487	46.34%
Ce 413.764†	10.6	0.00580	mg/L	0.007930	5.273	mg/kg	7.2120	136.77%
Ce 418.660†	910.1	0.6721	mg/L	0.01487	611.2	mg/kg	13.53	2.21%
Co 228.616†	10.3	0.01568	mg/L	0.002953	14.26	mg/kg	2.685	18.83%
Co 230.786†	11.7	0.01743	mg/L	0.003815	15.85	mg/kg	3.470	21.89%
Co 238.892†	74.2	0.05910	mg/L	0.038956	53.74	mg/kg	35.427	65.92%
Cr 205.560†	40.6	0.4448	mg/L	0.01246	404.5	mg/kg	11.33	2.80%
Cr 267.716†	244.9	0.4812	mg/L	0.01253	437.6	mg/kg	11.40	2.60%
Cr 283.563†	1963.6	0.4860	mg/L	0.00868	442.0	mg/kg	7.89	1.79%
Cu 224.700†	45.1	0.2672	mg/L	0.01553	243.0	mg/kg	14.12	5.81%
Cu 324.752†	1592.0	0.3362	mg/L	0.00738	305.8	mg/kg	6.71	2.19%
Cu 327.393†	650.9	0.3110	mg/L	0.00444	282.8	mg/kg	4.04	1.43%
Fe 238.204†	102853.4	89.41	mg/L	0.733	81310	mg/kg	666.7	0.82%
Fe 239.562†	70332.2	92.31	mg/L	0.960	83950	mg/kg	872.7	1.04%
Fe 259.939†	216236.2	91.77	mg/L	0.719	83450	mg/kg	653.5	0.78%
Fe 273.955†	30032.1	98.67	mg/L	0.704	89730	mg/kg	640.3	0.71%
K 766.490†	510.8	0.4705	mg/L	0.05707	427.9	mg/kg	51.90	12.13%
Li 610.362†	1479.6	0.2786	mg/L	0.06114	253.4	mg/kg	55.60	21.94%
Li 670.784†	-224.3	-0.00504	mg/L	0.002137	-4.587	mg/kg	1.9438	42.37%
Mg 279.077†	2222.0	7.713	mg/L	0.0966	7015	mg/kg	87.8	1.25%
Mg 280.271†	416973.1	7.584	mg/L	0.0616	6897	mg/kg	56.0	0.81%
Mg 285.213†	27814.9	7.817	mg/L	0.0718	7109	mg/kg	65.3	0.92%
Mn 257.610†	5348.3	0.5455	mg/L	0.00732	496.1	mg/kg	6.66	1.34%
Mn 259.372†	6017.5	0.5301	mg/L	0.00337	482.1	mg/kg	3.07	0.64%
Mn 260.568†	3003.4	0.5212	mg/L	0.00650	474.0	mg/kg	5.91	1.25%
Mo 202.031†	1.0	0.00437	mg/L	0.051941	3.974	mg/kg	47.2365	>999.9%
Mo 203.845†	0.6	0.01988	mg/L	0.050245	18.08	mg/kg	45.694	252.70%
Mo 204.597†	0.1	-0.00003	mg/L	0.053071	-0.02364	mg/kg	48.263877	>999.9%
Na 588.995†	2065.2	0.2793	mg/L	0.01462	254.0	mg/kg	13.29	5.23%
Na 589.592†	633.1	0.1315	mg/L	0.01656	119.6	mg/kg	15.06	12.60%

Ni 221.648†	8.0	0.1193	mg/L	0.04713	108.5	mg/kg	42.86 39.50%
Ni 231.604†	33.6	0.1508	mg/L	0.00855	137.1	mg/kg	7.78 5.67%
Ni 232.003†	11.8	0.06503	mg/L	0.015280	59.14	mg/kg	13.896 23.50%
Pb 217.000†	18.9	0.8726	mg/L	0.07209	793.6	mg/kg	65.56 8.26%
Pb 220.353†	49.8	1.043	mg/L	0.0215	948.9	mg/kg	19.53 2.06%
Sb 206.836†	-0.7	-0.04609	mg/L	0.107748	-41.91	mg/kg	97.988 233.79%
Sb 217.582†	0.5	0.00266	mg/L	0.100508	2.418	mg/kg	91.4044 >999.9%
Sb 231.146†	-1.3	-0.07421	mg/L	0.061161	-67.49	mg/kg	55.621 82.42%
Se 196.026†	0.3	0.05028	mg/L	0.228152	45.72	mg/kg	207.487 453.80%
Se 203.985†	0.7	0.03653	mg/L	0.275587	33.22	mg/kg	250.624 754.45%
Sn 189.927†	3.5	0.7344	mg/L	0.38996	667.9	mg/kg	354.64 53.10%
Sn 235.485†	1714.3	20.84	mg/L	0.721	18960	mg/kg	655.3 3.46%
Sn 283.998†	91.6	0.1611	mg/L	0.00443	146.5	mg/kg	4.03 2.75%
Sr 407.771†	5197.4	0.02300	mg/L	0.000173	20.92	mg/kg	0.158 0.75%
Sr 421.552†	2713.8	0.02792	mg/L	0.000453	25.39	mg/kg	0.412 1.62%
Sr 460.733†	27.9	0.01077	mg/L	0.029267	9.795	mg/kg	26.6160 271.72%
Ti 334.940†	3416.6	0.1715	mg/L	0.00271	156.0	mg/kg	2.46 1.58%
Ti 336.121†	2403.1	0.1771	mg/L	0.00396	161.0	mg/kg	3.60 2.23%
Ti 337.279†	1057.9	0.1598	mg/L	0.00305	145.3	mg/kg	2.77 1.91%
Tl 190.801†	-1.1	-0.2745	mg/L	0.13465	-249.6	mg/kg	122.45 49.05%
Tl 276.787†	16.0	-0.01829	mg/L	0.070793	-16.63	mg/kg	64.381 387.10%
Tl 351.924†	5.3	0.04614	mg/L	0.043177	41.96	mg/kg	39.266 93.58%
V 290.880†	32.6	0.01423	mg/L	0.003213	12.94	mg/kg	2.922 22.58%
V 309.310†	320.7	0.03344	mg/L	0.000499	30.41	mg/kg	0.454 1.49%
V 310.230†	388.3	0.06242	mg/L	0.001208	56.77	mg/kg	1.099 1.94%
Zn 202.548†	609.8	2.762	mg/L	0.0492	2511	mg/kg	44.7 1.78%
Zn 206.200†	635.8	2.365	mg/L	0.0318	2151	mg/kg	29.0 1.35%
Zn 213.857†	2038.0	2.746	mg/L	0.0330	2497	mg/kg	30.0 1.20%

Sequence No.: 12 **Autosampler Location: 29**
Sample ID: 0305007-22dil **Date Collected: 9/3/03 3:30:36 PM**
Analyst:
Sample Wt: 0.5397 g **Sample Prep Volume: 100 mL**
Dilution: 5X **Data Type: Original**

Mean Data: 0305007-22dil

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	161938.8						580.89	0.36%
Ag 328.068†	4.6	0.00183	mg/L	0.000665	1.697	mg/kg	0.6162	36.31%
Ag 338.289†	8.8	0.00850	mg/L	0.000376	7.876	mg/kg	0.3480	4.42%
Al 308.215†	1884.5	3.665	mg/L	0.0358	3396	mg/kg	33.2	0.98%
Al 394.401†	2198.2	3.434	mg/L	0.0331	3181	mg/kg	30.6	0.96%
Al 396.153†	4508.0	3.461	mg/L	0.0221	3206	mg/kg	20.5	0.64%
As 188.979†	1.0	0.1308	mg/L	0.16223	121.2	mg/kg	150.30	124.01%
As 193.696†	-1.3	-0.2555	mg/L	0.28001	-236.7	mg/kg	259.41	109.59%
As 197.197†	1.1	0.2114	mg/L	0.31934	195.9	mg/kg	295.85	151.06%
B 208.889†	6.6	0.08800	mg/L	0.000925	81.53	mg/kg	0.857	1.05%
B 249.677†	4.6	0.01535	mg/L	0.012954	14.22	mg/kg	12.002	84.41%
B 249.772†	83.2	0.06995	mg/L	0.004127	64.81	mg/kg	3.823	5.90%
Ba 233.527†	159.5	0.07041	mg/L	0.002425	65.23	mg/kg	2.247	3.44%
Ba 455.403†	8191.2	0.07481	mg/L	0.000347	69.31	mg/kg	0.321	0.46%
Ba 493.408†	6615.8	0.07258	mg/L	0.000446	67.24	mg/kg	0.413	0.61%
Be 234.861†	82.1	0.00077	mg/L	0.000827	0.7110	mg/kg	0.76571	107.70%
Be 313.042†	-165.1	-0.00308	mg/L	0.000059	-2.852	mg/kg	0.0545	1.91%
Be 313.107†	12.9	0.00042	mg/L	0.000197	0.3916	mg/kg	0.18279	46.68%
Ca 315.887†	30160.1	19.45	mg/L	0.063	18020	mg/kg	58.2	0.32%
Ca 317.933†	25951.6	19.29	mg/L	0.039	17870	mg/kg	36.3	0.20%
Cd 214.440†	30.8	0.04274	mg/L	0.003555	39.59	mg/kg	3.294	8.32%
Cd 226.502†	27.0	0.03890	mg/L	0.004937	36.04	mg/kg	4.574	12.69%
Cd 228.802†	29.3	0.03836	mg/L	0.004582	35.53	mg/kg	4.245	11.95%
Ce 413.380†	25.3	0.00565	mg/L	0.006973	5.235	mg/kg	6.4601	123.39%
Ce 413.764†	11.6	0.00744	mg/L	0.015716	6.897	mg/kg	14.5595	211.10%
Ce 418.660†	934.9	0.6911	mg/L	0.01085	640.3	mg/kg	10.05	1.57%
Co 228.616†	9.1	0.01400	mg/L	0.004716	12.97	mg/kg	4.370	33.68%
Co 230.786†	7.1	0.00975	mg/L	0.003735	9.031	mg/kg	3.4599	38.31%
Co 238.892†	76.8	0.08807	mg/L	0.017462	81.60	mg/kg	16.178	19.83%
Cr 205.560†	30.0	0.3286	mg/L	0.00827	304.4	mg/kg	7.67	2.52%
Cr 267.716†	190.4	0.3743	mg/L	0.01289	346.8	mg/kg	11.94	3.44%

Cr 283.563†	1532.9	0.3756	mg/L	0.00356	348.0	mg/kg	3.30	0.95%
Cu 224.700†	30.2	0.1758	mg/L	0.01307	162.9	mg/kg	12.11	7.43%
Cu 324.752†	1120.1	0.2361	mg/L	0.00268	218.7	mg/kg	2.49	1.14%
Cu 327.393†	451.9	0.2154	mg/L	0.00173	199.6	mg/kg	1.60	0.80%
Fe 238.204†	88844.0	77.23	mg/L	0.156	71550	mg/kg	144.8	0.20%
Fe 239.562†	60773.0	79.76	mg/L	0.253	73890	mg/kg	234.2	0.32%
Fe 259.939†	186921.4	79.33	mg/L	0.227	73490	mg/kg	210.4	0.29%
Fe 273.955†	25957.6	85.28	mg/L	0.282	79010	mg/kg	261.4	0.33%
K 766.490†	383.9	0.3536	mg/L	0.05022	327.6	mg/kg	46.52	14.20%
Li 610.362†	1327.7	0.2495	mg/L	0.01578	231.2	mg/kg	14.62	6.32%
Li 670.784†	-216.0	-0.00488	mg/L	0.001272	-4.517	mg/kg	1.1782	26.08%
Mg 279.077†	2550.8	8.864	mg/L	0.0621	8212	mg/kg	57.5	0.70%
Mg 280.271†	479677.5	8.727	mg/L	0.0244	8085	mg/kg	22.6	0.28%
Mg 285.213†	32017.5	9.000	mg/L	0.0534	8338	mg/kg	49.5	0.59%
Mn 257.610†	4621.7	0.4714	mg/L	0.00187	436.7	mg/kg	1.73	0.40%
Mn 259.372†	5183.2	0.4562	mg/L	0.00250	422.6	mg/kg	2.31	0.55%
Mn 260.568†	2599.3	0.4511	mg/L	0.00231	417.9	mg/kg	2.14	0.51%
Mo 202.031†	1.2	0.00631	mg/L	0.040199	5.845	mg/kg	37.2422	637.11%
Mo 203.845†	1.7	0.09561	mg/L	0.091499	88.58	mg/kg	84.769	95.70%
Mo 204.597†	0.2	0.00430	mg/L	0.025640	3.981	mg/kg	23.7537	596.70%
Na 588.995†	1989.9	0.2691	mg/L	0.01099	249.3	mg/kg	10.19	4.09%
Na 589.592†	481.0	0.09990	mg/L	0.024448	92.55	mg/kg	22.649	24.47%
Ni 221.648†	9.0	0.1342	mg/L	0.02750	124.3	mg/kg	25.48	20.49%
Ni 231.604†	33.1	0.1486	mg/L	0.00505	137.7	mg/kg	4.68	3.40%
Ni 232.003†	8.0	0.04243	mg/L	0.025264	39.31	mg/kg	23.406	59.54%
Pb 217.000†	22.0	1.049	mg/L	0.0801	971.5	mg/kg	74.23	7.64%
Pb 220.353†	57.8	1.204	mg/L	0.0377	1115	mg/kg	35.0	3.14%
Sb 206.836†	0.7	0.03384	mg/L	0.121710	31.35	mg/kg	112.757	359.69%
Sb 217.582†	-0.3	-0.05088	mg/L	0.069340	-47.14	mg/kg	64.239	136.27%
Sb 231.146†	-0.9	-0.05282	mg/L	0.093068	-48.93	mg/kg	86.222	176.21%
Se 196.026†	0.9	0.1715	mg/L	0.27904	158.9	mg/kg	258.52	162.67%
Se 203.985†	1.3	0.1555	mg/L	0.20016	144.1	mg/kg	185.44	128.72%
Sn 189.927†	1.7	0.3477	mg/L	0.22487	322.1	mg/kg	208.32	64.68%
Sn 235.485†	1470.2	17.65	mg/L	0.092	16350	mg/kg	85.3	0.52%
Sn 283.998†	62.5	0.1151	mg/L	0.02164	106.6	mg/kg	20.05	18.81%
Sr 407.771†	4194.1	0.01845	mg/L	0.000245	17.09	mg/kg	0.227	1.33%
Sr 421.552†	2280.4	0.02335	mg/L	0.000396	21.63	mg/kg	0.367	1.70%
Sr 460.733†	95.6	0.04107	mg/L	0.018255	38.05	mg/kg	16.912	44.44%
Ti 334.940†	3139.8	0.1577	mg/L	0.00105	146.1	mg/kg	0.97	0.67%
Ti 336.121†	2216.4	0.1632	mg/L	0.00075	151.2	mg/kg	0.70	0.46%
Ti 337.279†	974.8	0.1472	mg/L	0.00205	136.4	mg/kg	1.90	1.39%
Tl 190.801†	-0.4	-0.1121	mg/L	0.61273	-103.8	mg/kg	567.66	546.78%
Tl 276.787†	23.7	0.06184	mg/L	0.111901	57.30	mg/kg	103.670	180.94%
Tl 351.924†	4.7	0.04034	mg/L	0.069656	37.37	mg/kg	64.532	172.69%
V 290.880†	20.2	0.00848	mg/L	0.004848	7.856	mg/kg	4.4911	57.17%
V 309.310†	327.9	0.03106	mg/L	0.001072	28.77	mg/kg	0.993	3.45%
V 310.230†	359.9	0.05783	mg/L	0.001800	53.57	mg/kg	1.667	3.11%
Zn 202.548†	571.8	2.590	mg/L	0.0208	2399	mg/kg	19.2	0.80%
Zn 206.200†	596.4	2.218	mg/L	0.0185	2055	mg/kg	17.1	0.83%
Zn 213.857†	1900.1	2.560	mg/L	0.0146	2372	mg/kg	13.6	0.57%

Sequence No.: 13
Sample ID: 0305007-34dil
Analyst:
Sample Wt: 0.5167 g
Dilution: 5X

Autosampler Location: 31
Date Collected: 9/3/03 3:34:20 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: 0305007-34dil

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158539.9						2179.73	1.37%
Ag 328.068†	-5.8	-0.00030	mg/L	0.000695	-0.2909	mg/kg	0.67246	231.16%
Ag 338.289†	16.1	0.00618	mg/L	0.000624	5.976	mg/kg	0.6038	10.10%
Al 308.215†	713.2	1.371	mg/L	0.0158	1327	mg/kg	15.2	1.15%
Al 394.401†	677.6	1.091	mg/L	0.0050	1056	mg/kg	4.8	0.46%
Al 396.153†	1212.3	0.9123	mg/L	0.02386	882.8	mg/kg	23.09	2.62%
As 188.979†	0.9	0.04236	mg/L	0.090817	40.99	mg/kg	87.882	214.42%
As 193.696†	-1.6	-0.2683	mg/L	0.29405	-259.6	mg/kg	284.55	109.59%
As 197.197†	-0.7	0.1845	mg/L	0.30054	178.5	mg/kg	290.83	162.91%

B 208.889†	9.6	0.1217	mg/L	0.04260	117.7	mg/kg	41.23	35.01%
B 249.677†	5.6	0.01611	mg/L	0.007227	15.59	mg/kg	6.993	44.85%
B 249.772†	26.6	0.02810	mg/L	0.004158	27.19	mg/kg	4.024	14.80%
Ba 233.527†	34.0	0.01492	mg/L	0.001532	14.43	mg/kg	1.482	10.27%
Ba 455.403†	1629.0	0.01464	mg/L	0.000171	14.16	mg/kg	0.166	1.17%
Ba 493.408†	1194.9	0.01287	mg/L	0.001025	12.45	mg/kg	0.992	7.97%
Be 234.861†	20.7	0.00031	mg/L	0.000304	0.2967	mg/kg	0.29394	99.07%
Be 313.042†	-178.6	-0.00344	mg/L	0.000049	-3.330	mg/kg	0.0472	1.42%
Be 313.107†	3.9	0.00013	mg/L	0.000178	0.1251	mg/kg	0.17243	137.84%
Ca 315.887†	186460.9	120.2	mg/L	0.66	116400	mg/kg	642.7	0.55%
Ca 317.933†	157487.7	117.1	mg/L	0.81	113300	mg/kg	787.1	0.69%
Cd 214.440†	2.1	0.00210	mg/L	0.003233	2.028	mg/kg	3.1283	154.25%
Cd 226.502†	0.8	0.00354	mg/L	0.006677	3.429	mg/kg	6.4611	188.42%
Cd 228.802†	-0.7	0.00300	mg/L	0.004082	2.901	mg/kg	3.9502	136.16%
Ce 413.380†	4.5	0.00129	mg/L	0.004105	1.247	mg/kg	3.9722	318.42%
Ce 413.764†	-2.3	-0.00555	mg/L	0.003521	-5.375	mg/kg	3.4072	63.39%
Ce 418.660†	937.3	0.6976	mg/L	0.01066	675.0	mg/kg	10.31	1.53%
Co 228.616†	6.4	0.01154	mg/L	0.004525	11.16	mg/kg	4.379	39.22%
Co 230.786†	9.3	0.01508	mg/L	0.002119	14.59	mg/kg	2.050	14.05%
Co 238.892†	17.0	0.01859	mg/L	0.010078	17.99	mg/kg	9.752	54.22%
Cr 205.560†	3.7	0.03908	mg/L	0.008478	37.82	mg/kg	8.204	21.70%
Cr 267.716†	10.1	0.01965	mg/L	0.009438	19.02	mg/kg	9.133	48.02%
Cr 283.563†	99.4	0.01949	mg/L	0.000874	18.86	mg/kg	0.846	4.48%
Cu 224.700†	-14.2	-0.09526	mg/L	0.006012	-92.18	mg/kg	5.818	6.31%
Cu 324.752†	-238.1	-0.05172	mg/L	0.001148	-50.04	mg/kg	1.111	2.22%
Cu 327.393†	-118.7	-0.06015	mg/L	0.001073	-58.20	mg/kg	1.038	1.78%
Fe 238.204†	19994.8	17.39	mg/L	0.121	16830	mg/kg	116.7	0.69%
Fe 239.562†	13692.3	17.98	mg/L	0.166	17400	mg/kg	160.3	0.92%
Fe 259.939†	42088.8	17.87	mg/L	0.078	17290	mg/kg	75.1	0.43%
Fe 273.955†	5808.9	19.09	mg/L	0.079	18480	mg/kg	76.4	0.41%
K 766.490†	198.8	0.1831	mg/L	0.07242	177.2	mg/kg	70.08	39.55%
Li 610.362†	1660.3	0.2935	mg/L	0.11089	284.1	mg/kg	107.30	37.78%
Li 670.784†	-245.9	-0.00505	mg/L	0.001572	-4.882	mg/kg	1.5216	31.17%
Mg 279.077†	18633.4	64.94	mg/L	0.468	62840	mg/kg	453.2	0.72%
Mg 280.271†	3326930.8	60.58	mg/L	0.469	58620	mg/kg	453.9	0.77%
Mg 285.213†	225926.1	63.56	mg/L	0.372	61500	mg/kg	360.0	0.59%
Mn 257.610†	6879.3	0.7022	mg/L	0.00830	679.6	mg/kg	8.03	1.18%
Mn 259.372†	6512.6	0.6714	mg/L	0.00627	649.7	mg/kg	6.07	0.93%
Mn 260.568†	3883.7	0.6783	mg/L	0.01050	656.4	mg/kg	10.16	1.55%
Mo 202.031†	6.5	0.05240	mg/L	0.034437	50.70	mg/kg	33.324	65.72%
Mo 203.845†	6.0	0.3841	mg/L	0.07670	371.7	mg/kg	74.22	19.97%
Mo 204.597†	1.7	0.04337	mg/L	0.002068	41.96	mg/kg	2.001	4.77%
Na 588.995†	2360.0	0.3192	mg/L	0.02791	308.8	mg/kg	27.01	8.75%
Na 589.592†	896.1	0.1861	mg/L	0.00947	180.1	mg/kg	9.16	5.09%
Ni 221.648†	1.5	0.03009	mg/L	0.009283	29.12	mg/kg	8.983	30.85%
Ni 231.604†	10.2	0.04595	mg/L	0.005451	44.46	mg/kg	5.275	11.86%
Ni 232.003†	-6.2	-0.04352	mg/L	0.002573	-42.11	mg/kg	2.490	5.91%
Pb 217.000†	8.1	0.3632	mg/L	0.03302	351.4	mg/kg	31.95	9.09%
Pb 220.353†	13.9	0.2324	mg/L	0.03687	224.9	mg/kg	35.68	15.86%
Sb 206.836†	2.6	0.1296	mg/L	0.03103	125.5	mg/kg	30.03	23.94%
Sb 217.582†	-2.4	-0.1274	mg/L	0.16265	-123.3	mg/kg	157.39	127.70%
Sb 231.146†	-3.1	-0.1486	mg/L	0.11249	-143.8	mg/kg	108.85	75.71%
Se 196.026†	0.5	0.09159	mg/L	0.312038	88.63	mg/kg	301.952	340.70%
Se 203.985†	1.7	0.3020	mg/L	0.21645	292.2	mg/kg	209.45	71.67%
Sn 189.927†	-0.3	-0.07450	mg/L	0.310806	-72.10	mg/kg	300.760	417.16%
Sn 235.485†	324.6	3.808	mg/L	0.1225	3685	mg/kg	118.5	3.22%
Sn 283.998†	-14.2	-0.00473	mg/L	0.014052	-4.578	mg/kg	13.5983	297.03%
Sr 407.771†	6911.8	0.02831	mg/L	0.000282	27.39	mg/kg	0.273	1.00%
Sr 421.552†	3567.8	0.03463	mg/L	0.000592	33.51	mg/kg	0.573	1.71%
Sr 460.733†	92.8	0.03433	mg/L	0.013650	33.22	mg/kg	13.209	39.76%
Ti 334.940†	1699.9	0.08844	mg/L	0.001535	85.59	mg/kg	1.485	1.74%
Ti 336.121†	1243.3	0.08897	mg/L	0.001616	86.10	mg/kg	1.564	1.82%
Ti 337.279†	529.6	0.07962	mg/L	0.000912	77.05	mg/kg	0.882	1.15%
Tl 190.801†	0.5	0.1668	mg/L	0.57808	161.4	mg/kg	559.40	346.57%
Tl 276.787†	186.6	0.9361	mg/L	0.10048	905.8	mg/kg	97.24	10.73%
Tl 351.924†	0.2	-0.00050	mg/L	0.080661	-0.4865	mg/kg	78.05424	>999.9%
V 290.880†	-94.3	-0.03644	mg/L	0.006405	-35.27	mg/kg	6.198	17.57%
V 309.310†	1218.6	0.00029	mg/L	0.003093	0.2796	mg/kg	2.99297	>999.9%
V 310.230†	323.7	0.05114	mg/L	0.004586	49.49	mg/kg	4.438	8.97%
Zn 202.548†	77.1	0.3465	mg/L	0.01351	335.3	mg/kg	13.08	3.90%
Zn 206.200†	75.0	0.2792	mg/L	0.00897	270.1	mg/kg	8.68	3.21%

Zn 213.857†	276.0	0.3645 mg/L	0.00638	352.8 mg/kg	6.17	1.75%

Sequence No.: 14 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 9/3/03 3:38:10 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	160392.3						3267.24	2.04%
Ag 328.068†	-5.2	-0.00128	mg/L	0.000923				72.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	7.3	0.00257	mg/L	0.001111				43.16%
Al 308.215†	45.2	0.08797	mg/L	0.014536				16.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-56.6	-0.08715	mg/L	0.013252				15.21%
Al 396.153†	-499.9	-0.3841	mg/L	0.01120				2.92%
As 188.979†	0.2	0.02391	mg/L	0.025124				105.06%
As 193.696†	-1.4	-0.2793	mg/L	0.09649				34.54%
QC value less than the lower limit for As 193.696 Recovery = Not calculated								
As 197.197†	0.3	0.05019	mg/L	0.119850				238.79%
B 208.889†	5.0	0.07061	mg/L	0.028365				40.17%
B 249.677†	-1.5	-0.00431	mg/L	0.010604				246.20%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	2.0	0.00274	mg/L	0.002792				101.93%
Ba 233.527†	7.1	0.00350	mg/L	0.002354				67.20%
Ba 455.403†	180.4	0.00168	mg/L	0.000062				3.71%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	-0.9	0.00002	mg/L	0.000563				>999.9%
Be 234.861†	-0.9	-0.00007	mg/L	0.000081				115.60%
Be 313.042†	-192.6	-0.00353	mg/L	0.000142				4.03%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-5.9	-0.00019	mg/L	0.000166				86.34%
Ca 315.887†	20.2	0.01303	mg/L	0.008949				68.68%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	395.5	0.2940	mg/L	0.00246				0.84%
Cd 214.440†	0.5	0.00065	mg/L	0.001348				208.42%
Cd 226.502†	3.0	0.00500	mg/L	0.003228				64.58%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	0.5	0.00390	mg/L	0.003546				90.87%
Ce 413.380†	-16.6	-0.01435	mg/L	0.008021				55.91%
Ce 413.764†	-6.3	-0.00631	mg/L	0.000897				14.22%
Ce 418.660†	907.8	0.6742	mg/L	0.01240				1.84%
Co 228.616†	2.1	0.00349	mg/L	0.001167				33.44%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	4.4	0.00767	mg/L	0.003821				49.79%
Co 238.892†	-0.9	-0.00258	mg/L	0.007219				279.65%
Cr 205.560†	0.5	0.00566	mg/L	0.010932				193.01%
Cr 267.716†	0.2	0.00044	mg/L	0.007201				>999.9%
Cr 283.563†	-47.1	-0.01271	mg/L	0.001876				14.77%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-18.7	-0.1166	mg/L	0.00651				5.59%
Cu 324.752†	-397.2	-0.08441	mg/L	0.001015				1.20%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-190.0	-0.09125	mg/L	0.001044				1.14%
Fe 238.204†	-3.7	-0.00348	mg/L	0.000905				25.99%
Fe 239.562†	-0.2	-0.00057	mg/L	0.002385				416.11%
Fe 259.939†	2.6	0.00086	mg/L	0.001760				204.24%
QC value within limits for Fe 259.939 Recovery = Not calculated								
Fe 273.955†	-14.0	-0.04630	mg/L	0.012095				26.12%
K 766.490†	-53.0	-0.04881	mg/L	0.009910				20.30%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	1549.0	0.3066	mg/L	0.16734				54.57%
Li 670.784†	-502.4	-0.01221	mg/L	0.001871				15.32%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	9.7	0.03394	mg/L	0.013867				40.85%
QC value within limits for Mg 279.077 Recovery = Not calculated								

Mg 280.271†	996.7	0.01815	mg/L	0.003489	19.22%
Mg 285.213†	62.6	0.01761	mg/L	0.002623	14.90%
Mn 257.610†	-2.5	-0.00026	mg/L	0.000458	178.96%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	0.5	0.00009	mg/L	0.000713	802.60%
Mn 260.568†	-0.0	-0.00001	mg/L	0.000228	>999.9%
Mo 202.031†	-0.9	-0.03178	mg/L	0.048262	151.88%
Mo 203.845†	1.3	0.07818	mg/L	0.080010	102.35%
Mo 204.597†	0.1	0.00341	mg/L	0.048818	>999.9%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	539.2	0.07292	mg/L	0.049435	67.80%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-239.0	-0.04965	mg/L	0.013553	27.30%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	0.2	0.00293	mg/L	0.022708	776.25%
Ni 231.604†	4.0	0.01810	mg/L	0.005596	30.92%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-7.2	-0.05425	mg/L	0.017264	31.82%
Pb 217.000†	-0.8	-0.04023	mg/L	0.058672	145.86%
Pb 220.353†	-0.2	-0.00459	mg/L	0.024149	525.56%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-1.8	-0.09748	mg/L	0.086290	88.52%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-1.1	-0.07560	mg/L	0.015081	19.95%
Sb 231.146†	0.6	0.02731	mg/L	0.065500	239.81%
Se 196.026†	0.5	0.1019	mg/L	0.25272	247.95%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-0.1	-0.01106	mg/L	0.631622	>999.9%
Sn 189.927†	-0.5	-0.1110	mg/L	0.17286	155.74%
Sn 235.485†	-5.2	-0.1497	mg/L	0.02316	15.47%
QC value less than the lower limit for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	3.9	0.00924	mg/L	0.023058	249.59%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	7.7	0.00004	mg/L	0.000062	175.34%
Sr 421.552†	453.0	0.00475	mg/L	0.000164	3.46%
Sr 460.733†	17.5	0.00786	mg/L	0.017898	227.77%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-27.6	-0.00138	mg/L	0.000271	19.63%
Ti 336.121†	-15.9	-0.00118	mg/L	0.000438	37.05%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-25.9	-0.00392	mg/L	0.001214	30.94%
Tl 190.801†	0.4	0.08660	mg/L	0.380715	439.62%
QC value within limits for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-12.1	-0.1561	mg/L	0.04209	26.97%
Tl 351.924†	15.3	0.1449	mg/L	0.12086	83.41%
V 290.880†	-9.3	-0.00509	mg/L	0.004088	80.27%
V 309.310†	59.1	0.01053	mg/L	0.001984	18.85%
V 310.230†	269.1	0.04330	mg/L	0.004376	10.11%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-5.2	-0.02292	mg/L	0.007387	32.22%
Zn 206.200†	-6.5	-0.02409	mg/L	0.002588	10.74%
Zn 213.857†	-9.5	-0.01297	mg/L	0.001937	14.93%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

==========

Sequence No.: 15 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 9/3/03 3:41:58 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	159057.8						3936.42	2.47%
Ag 328.068†	-3.1	-0.00076	mg/L	0.001681				220.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	20.2	0.00717	mg/L	0.003652				50.96%
Al 308.215†	50.2	0.09766	mg/L	0.005641				5.78%

QC value within limits for Al 308.215 Recovery = Not calculated					
Al 394.401†	-62.1	-0.09586	mg/L	0.005821	6.07%
Al 396.153†	-493.2	-0.3789	mg/L	0.01057	2.79%
As 188.979†	0.2	0.03496	mg/L	0.263255	752.92%
As 193.696†	-1.0	-0.1959	mg/L	0.31180	159.13%
QC value less than the lower limit for As 193.696 Recovery = Not calculated					
As 197.197†	1.5	0.2171	mg/L	0.25095	115.61%
B 208.889†	6.2	0.08838	mg/L	0.043133	48.80%
B 249.677†	0.1	0.00036	mg/L	0.010632	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated					
B 249.772†	-0.2	-0.00023	mg/L	0.003387	>999.9%
Ba 233.527†	2.4	0.00118	mg/L	0.000919	77.57%
Ba 455.403†	177.9	0.00165	mg/L	0.000036	2.20%
QC value within limits for Ba 455.403 Recovery = Not calculated					
Ba 493.408†	39.9	0.00046	mg/L	0.000717	154.38%
Be 234.861†	1.4	0.00013	mg/L	0.000110	84.61%
Be 313.042†	-195.9	-0.00359	mg/L	0.000090	2.49%
QC value within limits for Be 313.042 Recovery = Not calculated					
Be 313.107†	-8.2	-0.00027	mg/L	0.000190	70.57%
Ca 315.887†	-20.8	-0.01344	mg/L	0.007758	57.70%
QC value within limits for Ca 315.887 Recovery = Not calculated					
Ca 317.933†	366.5	0.2724	mg/L	0.01500	5.51%
Cd 214.440†	-0.5	-0.00069	mg/L	0.003114	450.41%
Cd 226.502†	1.4	0.00234	mg/L	0.006591	281.71%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Cd 228.802†	1.6	0.00424	mg/L	0.001673	39.41%
Ce 413.380†	-13.2	-0.01140	mg/L	0.007964	69.87%
Ce 413.764†	-2.4	-0.00239	mg/L	0.011583	485.35%
Ce 418.660†	906.3	0.6731	mg/L	0.01230	1.83%
Co 228.616†	1.1	0.00190	mg/L	0.003525	185.85%
QC value within limits for Co 228.616 Recovery = Not calculated					
Co 230.786†	3.0	0.00522	mg/L	0.004781	91.53%
Co 238.892†	-1.4	-0.00387	mg/L	0.003859	99.67%
Cr 205.560†	-0.6	-0.00686	mg/L	0.007658	111.67%
Cr 267.716†	2.6	0.00502	mg/L	0.010974	218.44%
Cr 283.563†	-46.6	-0.01256	mg/L	0.001562	12.44%
QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	-18.4	-0.1148	mg/L	0.00557	4.86%
Cu 324.752†	-404.8	-0.08609	mg/L	0.001884	2.19%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	-193.7	-0.09309	mg/L	0.002879	3.09%
Fe 238.204†	-13.5	-0.01187	mg/L	0.002146	18.08%
Fe 239.562†	-4.9	-0.00663	mg/L	0.002771	41.77%
Fe 259.939†	-17.6	-0.00764	mg/L	0.000599	7.85%
QC value within limits for Fe 259.939 Recovery = Not calculated					
Fe 273.955†	-22.2	-0.07324	mg/L	0.015726	21.47%
K 766.490†	-27.7	-0.02552	mg/L	0.061649	241.61%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	1992.0	0.3940	mg/L	0.15947	40.47%
Li 670.784†	-528.1	-0.01283	mg/L	0.001454	11.33%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	0.8	0.00271	mg/L	0.011041	407.42%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	283.0	0.00516	mg/L	0.000430	8.34%
Mg 285.213†	20.9	0.00588	mg/L	0.000468	7.95%
Mn 257.610†	-3.0	-0.00031	mg/L	0.000455	145.82%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	-1.6	-0.00010	mg/L	0.000835	864.92%
Mn 260.568†	-1.5	-0.00026	mg/L	0.000509	195.49%
Mo 202.031†	-0.4	-0.01370	mg/L	0.054977	401.18%
Mo 203.845†	0.5	0.02922	mg/L	0.108811	372.38%
Mo 204.597†	0.0	0.00111	mg/L	0.026103	>999.9%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	425.6	0.05756	mg/L	0.031037	53.92%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-144.7	-0.03006	mg/L	0.017593	58.53%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	-0.1	-0.00085	mg/L	0.029642	>999.9%
Ni 231.604†	5.2	0.02356	mg/L	0.002725	11.56%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-7.0	-0.05192	mg/L	0.022914	44.13%

Pb 217.000†	-0.1	-0.00514	mg/L	0.053053	>999.9%
Pb 220.353†	-0.1	-0.00170	mg/L	0.016183	953.89%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.3	-0.01442	mg/L	0.014010	97.12%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-0.8	-0.05461	mg/L	0.059980	109.84%
Sb 231.146†	0.1	0.00560	mg/L	0.077950	>999.9%
Se 196.026†	1.3	0.2564	mg/L	0.21071	82.17%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-0.0	-0.00216	mg/L	0.441797	>999.9%
Sn 189.927†	0.5	0.09620	mg/L	0.084161	87.49%
Sn 235.485†	-1.6	-0.02621	mg/L	0.069676	265.81%
QC value within limits for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	-2.1	-0.00344	mg/L	0.014617	425.38%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	22.1	0.00010	mg/L	0.000067	67.24%
Sr 421.552†	462.5	0.00485	mg/L	0.000115	2.36%
Sr 460.733†	13.4	0.00603	mg/L	0.030332	503.42%
QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-26.8	-0.00134	mg/L	0.000280	20.95%
Ti 336.121†	-7.7	-0.00058	mg/L	0.000353	60.80%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-23.4	-0.00354	mg/L	0.000630	17.80%
Tl 190.801†	0.6	0.1337	mg/L	0.19017	142.28%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-6.3	-0.08140	mg/L	0.073052	89.74%
Tl 351.924†	-1.2	-0.01146	mg/L	0.010018	87.40%
V 290.880†	-6.7	-0.00370	mg/L	0.004411	119.28%
V 309.310†	56.8	0.01021	mg/L	0.000538	5.27%
V 310.230†	303.5	0.04884	mg/L	0.010795	22.10%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-3.4	-0.01456	mg/L	0.007736	53.12%
Zn 206.200†	-7.2	-0.02695	mg/L	0.007756	28.78%
Zn 213.857†	-10.2	-0.01389	mg/L	0.001644	11.84%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 16 **Autosampler Location: 5**
Sample ID: Blank 2 **Date Collected: 9/3/03 3:45:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Blank 2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	158347.7						1228.27	0.78%
Ag 328.068†	-9.6	-0.00238	mg/L	0.001612				67.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	15.5	0.00554	mg/L	0.001826				32.95%
Al 308.215†	44.7	0.08659	mg/L	0.020375				23.53%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	-65.4	-0.1012	mg/L	0.01765				17.44%
Al 396.153†	-518.0	-0.3988	mg/L	0.00083				0.21%
As 188.979†	-0.4	-0.06046	mg/L	0.153239				253.45%
As 193.696†	-0.7	-0.1451	mg/L	0.08570				59.07%
QC value less than the lower limit for As 193.696 Recovery = Not calculated								
As 197.197†	-0.1	-0.01374	mg/L	0.326884				>999.9%
B 208.889†	4.7	0.06725	mg/L	0.043228				64.28%
B 249.677†	1.6	0.00455	mg/L	0.006998				153.87%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-0.8	-0.00105	mg/L	0.001772				168.37%
Ba 233.527†	5.6	0.00277	mg/L	0.001101				39.78%
Ba 455.403†	192.8	0.00178	mg/L	0.000073				4.11%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	-36.4	-0.00038	mg/L	0.000750				195.27%
Be 234.861†	0.6	0.00006	mg/L	0.000403				637.29%
Be 313.042†	-196.4	-0.00360	mg/L	0.000089				2.47%
QC value within limits for Be 313.042 Recovery = Not calculated								

Be 313.107†	-1.8	-0.00006	mg/L	0.000050	85.45%
Ca 315.887†	-18.8	-0.01216	mg/L	0.006847	56.32%
QC value within limits for Ca 315.887 Recovery = Not calculated					
Ca 317.933†	372.2	0.2767	mg/L	0.00123	0.45%
Cd 214.440†	0.5	0.00069	mg/L	0.001892	275.11%
Cd 226.502†	1.1	0.00189	mg/L	0.002803	148.39%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Cd 228.802†	0.6	0.00245	mg/L	0.000413	16.87%
Ce 413.380†	-10.0	-0.00861	mg/L	0.006791	78.85%
Ce 413.764†	-1.2	-0.00121	mg/L	0.002437	201.46%
Ce 418.660†	912.3	0.6776	mg/L	0.00249	0.37%
Co 228.616†	2.2	0.00368	mg/L	0.003454	93.89%
QC value within limits for Co 228.616 Recovery = Not calculated					
Co 230.786†	5.8	0.01021	mg/L	0.004228	41.39%
Co 238.892†	-1.6	-0.00451	mg/L	0.005383	119.27%
Cr 205.560†	-0.4	-0.00384	mg/L	0.026819	697.86%
Cr 267.716†	0.5	0.00095	mg/L	0.004045	425.18%
Cr 283.563†	-53.7	-0.01447	mg/L	0.002063	14.25%
QC value within limits for Cr 283.563 Recovery = Not calculated					
Cu 224.700†	-19.6	-0.1225	mg/L	0.01483	12.11%
Cu 324.752†	-404.0	-0.08592	mg/L	0.000856	1.00%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Cu 327.393†	-186.4	-0.08956	mg/L	0.003829	4.28%
Fe 238.204†	-17.5	-0.01533	mg/L	0.003670	23.94%
Fe 239.562†	-9.5	-0.01265	mg/L	0.000540	4.27%
Fe 259.939†	-26.3	-0.01133	mg/L	0.000821	7.25%
QC value within limits for Fe 259.939 Recovery = Not calculated					
Fe 273.955†	-19.3	-0.06347	mg/L	0.023070	36.35%
K 766.490†	-33.8	-0.03111	mg/L	0.062150	199.77%
QC value within limits for K 766.490 Recovery = Not calculated					
Li 610.362†	2102.4	0.4157	mg/L	0.08956	21.55%
Li 670.784†	-552.7	-0.01342	mg/L	0.000502	3.74%
QC value within limits for Li 670.784 Recovery = Not calculated					
Mg 279.077†	3.0	0.01067	mg/L	0.018814	176.40%
QC value within limits for Mg 279.077 Recovery = Not calculated					
Mg 280.271†	238.6	0.00434	mg/L	0.000126	2.91%
Mg 285.213†	18.1	0.00508	mg/L	0.003096	60.91%
Mn 257.610†	0.2	0.00002	mg/L	0.000573	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mn 259.372†	-0.1	-0.00008	mg/L	0.000023	28.73%
Mn 260.568†	-4.4	-0.00077	mg/L	0.000625	81.56%
Mo 202.031†	0.3	0.01192	mg/L	0.022300	187.10%
Mo 203.845†	1.1	0.06770	mg/L	0.069532	102.71%
Mo 204.597†	1.1	0.02823	mg/L	0.031760	112.50%
QC value within limits for Mo 204.597 Recovery = Not calculated					
Na 588.995†	382.4	0.05171	mg/L	0.033097	64.00%
QC value within limits for Na 588.995 Recovery = Not calculated					
Na 589.592†	-222.0	-0.04611	mg/L	0.027205	59.00%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	1.2	0.01845	mg/L	0.024961	135.26%
Ni 231.604†	4.8	0.02151	mg/L	0.014023	65.21%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-7.8	-0.05827	mg/L	0.006702	11.50%
Pb 217.000†	-0.1	-0.00722	mg/L	0.101187	>999.9%
Pb 220.353†	1.9	0.03942	mg/L	0.062026	157.34%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	-0.9	-0.04790	mg/L	0.072664	151.69%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Sb 217.582†	-0.3	-0.01971	mg/L	0.053628	272.07%
Sb 231.146†	-0.6	-0.03255	mg/L	0.008617	26.47%
Se 196.026†	1.5	0.2938	mg/L	0.38827	132.16%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated					
Se 203.985†	-2.5	-0.4552	mg/L	0.11172	24.54%
Sn 189.927†	0.0	0.00857	mg/L	0.054989	641.69%
Sn 235.485†	-4.0	-0.1051	mg/L	0.08589	81.70%
QC value less than the lower limit for Sn 235.485 Recovery = Not calculated					
Sn 283.998†	3.3	0.01161	mg/L	0.014862	127.96%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	5.7	0.00003	mg/L	0.000110	419.17%
Sr 421.552†	496.8	0.00521	mg/L	0.000077	1.47%
Sr 460.733†	-32.9	-0.01471	mg/L	0.009030	61.39%

QC value within limits for Sr 460.733 Recovery = Not calculated					
Ti 334.940†	-29.7	-0.00149	mg/L	0.000285	19.20%
Ti 336.121†	-22.3	-0.00166	mg/L	0.000373	22.49%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-28.8	-0.00435	mg/L	0.001092	25.09%
Tl 190.801†	1.2	0.2774	mg/L	0.31700	114.28%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated					
Tl 276.787†	-12.1	-0.1561	mg/L	0.05035	32.26%
Tl 351.924†	5.1	0.04868	mg/L	0.085325	175.29%
V 290.880†	-15.2	-0.00836	mg/L	0.002233	26.70%
V 309.310†	61.4	0.01102	mg/L	0.000732	6.64%
V 310.230†	295.7	0.04758	mg/L	0.003936	8.27%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-4.0	-0.01730	mg/L	0.002336	13.50%
Zn 206.200†	-9.5	-0.03543	mg/L	0.001864	5.26%
Zn 213.857†	-12.3	-0.01663	mg/L	0.001471	8.85%
QC value within limits for Zn 213.857 Recovery = Not calculated					
QC Failed. Continue with analysis.					

Sequence No.: 17
Sample ID: AsTi
Analyst:
Sample Wt: 0 g
Dilution:

Autosampler Location: 61
Date Collected: 9/3/03 3:49:37 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: AsTi

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	163203.3						1474.40	0.90%
Ag 328.068†	-168.3	0.09224	mg/L	0.002142	0.000	mg/kg	0.0000	0.00%
Ag 338.289†	175.9	0.03610	mg/L	0.004517	0.000	mg/kg	0.0000	0.00%
Al 308.215†	102.3	0.1091	mg/L	0.01924	0.000	mg/kg	0.0000	0.00%
Al 394.401†	-42.4	-0.07274	mg/L	0.016433	0.000	mg/kg	0.0000	0.00%
Al 396.153†	-496.6	-0.3856	mg/L	0.01198	0.000	mg/kg	0.0000	0.00%
As 188.979†	310.9	44.69	mg/L	0.815	0.000	mg/kg	0.0000	0.00%
As 193.696†	238.1	47.17	mg/L	0.598	0.000	mg/kg	0.0000	0.00%
As 197.197†	300.8	44.55	mg/L	0.578	0.000	mg/kg	0.0000	0.00%
B 208.889†	3.6	0.03565	mg/L	0.046802	0.00000	mg/kg	0.000000	0.00%
B 249.677†	1.8	0.00429	mg/L	0.008010	0.00000	mg/kg	0.000000	0.00%
B 249.772†	4.8	0.01073	mg/L	0.000551	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	2.0	-0.00317	mg/L	0.001091	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	265.0	-0.00260	mg/L	0.000557	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	55.9	-0.00445	mg/L	0.000631	0.000	mg/kg	0.0000	0.00%
Be 234.861†	2.3	0.00010	mg/L	0.000119	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-172.3	-0.00337	mg/L	0.000053	0.000	mg/kg	0.0000	0.00%
Be 313.107†	-1.4	-0.00089	mg/L	0.000303	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	56.2	0.03966	mg/L	0.004423	0.000	mg/kg	0.0000	0.00%
Ca 317.933†	412.9	0.3010	mg/L	0.00041	0.000	mg/kg	0.0000	0.00%
Cd 214.440†	0.7	0.00271	mg/L	0.001750	0.000	mg/kg	0.0000	0.00%
Cd 226.502†	5.2	0.00278	mg/L	0.003482	0.00000	mg/kg	0.000000	0.00%
Cd 228.802†	956.4	0.5430	mg/L	0.01159	0.000	mg/kg	0.0000	0.00%
Ce 413.380†	-4.1	-0.00877	mg/L	0.009592	0.00000	mg/kg	0.000000	0.00%
Ce 413.764†	0.4	-0.01439	mg/L	0.010112	0.000	mg/kg	0.0000	0.00%
Ce 418.660†	941.1	0.6806	mg/L	0.00410	0.000	mg/kg	0.0000	0.00%
Co 228.616†	54.1	0.02905	mg/L	0.001741	0.000	mg/kg	0.0000	0.00%
Co 230.786†	6.2	0.00946	mg/L	0.008728	0.000	mg/kg	0.0000	0.00%
Co 238.892†	-0.1	-0.00294	mg/L	0.007334	0.00000	mg/kg	0.000000	0.00%
Cr 205.560†	-4.8	-0.04170	mg/L	0.021497	0.000	mg/kg	0.0000	0.00%
Cr 267.716†	4.0	0.00414	mg/L	0.004230	0.00000	mg/kg	0.000000	0.00%
Cr 283.563†	-48.4	-0.01713	mg/L	0.001476	0.000	mg/kg	0.0000	0.00%
Cu 224.700†	-16.6	-0.1228	mg/L	0.02046	0.000	mg/kg	0.0000	0.00%
Cu 324.752†	-436.8	-0.1005	mg/L	0.00168	0.000	mg/kg	0.0000	0.00%
Cu 327.393†	-167.9	-0.09735	mg/L	0.003134	0.000	mg/kg	0.0000	0.00%
Fe 238.204†	28.6	0.07927	mg/L	0.003930	0.000	mg/kg	0.0000	0.00%
Fe 239.562†	23.2	0.08313	mg/L	0.001411	0.000	mg/kg	0.0000	0.00%
Fe 259.939†	58.4	0.08262	mg/L	0.000546	0.000	mg/kg	0.0000	0.00%
Fe 273.955†	-6.4	0.03661	mg/L	0.005218	0.000	mg/kg	0.0000	0.00%
K 766.490†	-22.8	-0.02103	mg/L	0.038911	0.00000	mg/kg	0.000000	0.00%
Li 610.362†	1281.3	0.1941	mg/L	0.05667	0.000	mg/kg	0.0000	0.00%

Li 670.784†	-335.6	-0.00532	mg/L	0.000228	0.000	mg/kg	0.0000	0.00%
Mg 279.077†	13.6	0.05337	mg/L	0.016194	0.000	mg/kg	0.0000	0.00%
Mg 280.271†	1429.4	0.02644	mg/L	0.000180	0.000	mg/kg	0.0000	0.00%
Mg 285.213†	91.0	0.02829	mg/L	0.001119	0.000	mg/kg	0.0000	0.00%
Mn 257.610†	8.8	-0.00200	mg/L	0.000032	0.000	mg/kg	0.0000	0.00%
Mn 259.372†	9.7	-0.00246	mg/L	0.000813	0.000	mg/kg	0.0000	0.00%
Mn 260.568†	2.9	-0.00214	mg/L	0.001480	0.000	mg/kg	0.0000	0.00%
Mo 202.031†	0.7	0.02808	mg/L	0.046705	0.00000	mg/kg	0.000000	0.00%
Mo 203.845†	2.3	0.1725	mg/L	0.05301	0.000	mg/kg	0.0000	0.00%
Mo 204.597†	-1.4	-0.04168	mg/L	0.026101	0.000	mg/kg	0.0000	0.00%
Na 588.995†	1245.8	0.1685	mg/L	0.01992	0.000	mg/kg	0.0000	0.00%
Na 589.592†	98.6	0.02048	mg/L	0.012421	0.000	mg/kg	0.0000	0.00%
Ni 221.648†	0.3	0.01344	mg/L	0.027319	0.00000	mg/kg	0.000000	0.00%
Ni 231.604†	6.2	0.01998	mg/L	0.012460	0.000	mg/kg	0.0000	0.00%
Ni 232.003†	-7.4	-0.05102	mg/L	0.025028	0.000	mg/kg	0.0000	0.00%
Pb 217.000†	-0.1	0.05464	mg/L	0.064399	0.00000	mg/kg	0.000000	0.00%
Pb 220.353†	2.1	0.09030	mg/L	0.015826	0.000	mg/kg	0.0000	0.00%
Sb 206.836†	-1.0	-0.1405	mg/L	0.06929	0.000	mg/kg	0.0000	0.00%
Sb 217.582†	0.4	-0.02058	mg/L	0.058269	0.00000	mg/kg	0.000000	0.00%
Sb 231.146†	-2.8	-0.1764	mg/L	0.03506	0.000	mg/kg	0.0000	0.00%
Se 196.026†	1.9	0.1433	mg/L	0.26271	0.00000	mg/kg	0.000000	0.00%
Se 203.985†	-0.2	-0.07748	mg/L	0.497822	0.00000	mg/kg	0.000000	0.00%
Sn 189.927†	-0.2	-0.04353	mg/L	0.098388	0.00000	mg/kg	0.000000	0.00%
Sn 235.485†	-2.8	-0.00488	mg/L	0.106617	0.00000	mg/kg	0.000000	0.00%
Sn 283.998†	-22.7	0.2009	mg/L	0.01368	0.000	mg/kg	0.0000	0.00%
Sr 407.771†	112.0	-0.00580	mg/L	0.000031	0.000	mg/kg	0.0000	0.00%
Sr 421.552†	541.2	-0.00056	mg/L	0.000032	0.000	mg/kg	0.0000	0.00%
Sr 460.733†	23.6	0.02552	mg/L	0.029751	0.000	mg/kg	0.0000	0.00%
Ti 334.940†	941757.3	47.16	mg/L	0.193	0.000	mg/kg	0.0000	0.00%
Ti 336.121†	663352.3	49.00	mg/L	0.241	0.000	mg/kg	0.0000	0.00%
Ti 337.279†	295542.2	44.73	mg/L	0.229	0.000	mg/kg	0.0000	0.00%
Tl 190.801†	1.4	0.2298	mg/L	0.23676	0.000	mg/kg	0.0000	0.00%
Tl 276.787†	-7.8	-0.06805	mg/L	0.058987	0.000	mg/kg	0.0000	0.00%
Tl 351.924†	1.9	-0.1468	mg/L	0.06866	0.000	mg/kg	0.0000	0.00%
V 290.880†	-7.2	-0.00169	mg/L	0.000585	0.000	mg/kg	0.0000	0.00%
V 309.310†	44.2	0.00935	mg/L	0.000555	0.000	mg/kg	0.0000	0.00%
V 310.230†	266.2	0.04167	mg/L	0.000829	0.000	mg/kg	0.0000	0.00%
Zn 202.548†	1.9	0.02587	mg/L	0.003936	0.000	mg/kg	0.0000	0.00%
Zn 206.200†	0.0	0.02161	mg/L	0.006165	0.000	mg/kg	0.0000	0.00%
Zn 213.857†	7.0	0.02686	mg/L	0.002124	0.000	mg/kg	0.0000	0.00%

Sequence No.: 18
Sample ID: AlFe
Analyst:
Sample Wt: 0 g
Dilution:

Autosampler Location: 63
Date Collected: 9/3/03 3:53:26 PM

Sample Prep Volume: 100 mL
Data Type: Original

Mean Data: AlFe

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	158588.0						588.03	0.37%
Ag 328.068†	-3.9	-0.00041	mg/L	0.002292	0.00000	mg/kg	0.000000	0.00%
Ag 338.289†	-11.3	0.01008	mg/L	0.004562	0.000	mg/kg	0.0000	0.00%
Al 308.215†	100938.0	196.3	mg/L	1.12	0.000	mg/kg	0.0000	0.00%
Al 394.401†	123377.4	192.0	mg/L	1.08	0.000	mg/kg	0.0000	0.00%
Al 396.153†	264325.9	203.0	mg/L	0.92	0.000	mg/kg	0.0000	0.00%
As 188.979†	1.8	0.2704	mg/L	0.08714	0.000	mg/kg	0.0000	0.00%
As 193.696†	-0.3	-0.08560	mg/L	0.043065	0.000	mg/kg	0.0000	0.00%
As 197.197†	3.7	0.5032	mg/L	0.05528	0.000	mg/kg	0.0000	0.00%
B 208.889†	4.5	0.07574	mg/L	0.024194	0.000	mg/kg	0.0000	0.00%
B 249.677†	-3.0	-0.00314	mg/L	0.013328	0.00000	mg/kg	0.000000	0.00%
B 249.772†	175.7	0.1309	mg/L	0.00529	0.000	mg/kg	0.0000	0.00%
Ba 233.527†	24.0	-0.00665	mg/L	0.001791	0.000	mg/kg	0.0000	0.00%
Ba 455.403†	230.9	0.00187	mg/L	0.000186	0.000	mg/kg	0.0000	0.00%
Ba 493.408†	154.3	-0.00015	mg/L	0.000316	0.00000	mg/kg	0.000000	0.00%
Be 234.861†	191.7	0.00084	mg/L	0.001030	0.00000	mg/kg	0.000000	0.00%
Be 313.042†	-199.0	-0.00373	mg/L	0.000107	0.000	mg/kg	0.0000	0.00%
Be 313.107†	-7.8	-0.00029	mg/L	0.000150	0.000	mg/kg	0.0000	0.00%
Ca 315.887†	-7.4	0.00149	mg/L	0.001068	0.000	mg/kg	0.0000	0.00%

Ca 317.933†	387.3	0.2946 mg/L	0.00412	0.000 mg/kg	0.0000	0.00%
Cd 214.440†	4.9	0.01306 mg/L	0.001191	0.000 mg/kg	0.0000	0.00%
Cd 226.502†	13.9	0.00706 mg/L	0.002656	0.000 mg/kg	0.0000	0.00%
Cd 228.802†	9.0	0.01407 mg/L	0.005010	0.000 mg/kg	0.0000	0.00%
Ce 413.380†	41.3	-0.00447 mg/L	0.002824	0.000 mg/kg	0.0000	0.00%
Ce 413.764†	2.3	-0.00977 mg/L	0.002031	0.000 mg/kg	0.0000	0.00%
Ce 418.660†	924.7	0.6781 mg/L	0.00843	0.000 mg/kg	0.0000	0.00%
Co 228.616†	5.7	0.00694 mg/L	0.003979	0.000 mg/kg	0.0000	0.00%
Co 230.786†	6.3	0.00492 mg/L	0.003335	0.000 mg/kg	0.0000	0.00%
Co 238.892†	164.6	0.1433 mg/L	0.11300	0.000 mg/kg	0.0000	0.00%
Cr 205.560†	-1.7	-0.01668 mg/L	0.000354	0.000 mg/kg	0.0000	0.00%
Cr 267.716†	-5.2	-0.00380 mg/L	0.005076	0.00000 mg/kg	0.000000	0.00%
Cr 283.563†	830.9	0.1262 mg/L	0.00099	0.000 mg/kg	0.0000	0.00%
Cu 224.700†	-16.7	-0.1279 mg/L	0.01351	0.000 mg/kg	0.0000	0.00%
Cu 324.752†	-343.1	-0.07823 mg/L	0.002675	0.000 mg/kg	0.0000	0.00%
Cu 327.393†	-168.3	-0.08441 mg/L	0.005448	0.000 mg/kg	0.0000	0.00%
Fe 238.204†	217441.8	189.0 mg/L	0.87	0.000 mg/kg	0.0000	0.00%
Fe 239.562†	149389.8	196.1 mg/L	0.65	0.000 mg/kg	0.0000	0.00%
Fe 259.939†	457000.7	193.9 mg/L	0.69	0.000 mg/kg	0.0000	0.00%
Fe 273.955†	64398.9	211.6 mg/L	0.89	0.000 mg/kg	0.0000	0.00%
K 766.490†	1.1	0.00100 mg/L	0.070249	0.00000 mg/kg	0.000000	0.00%
Li 610.362†	2069.9	0.3961 mg/L	0.03217	0.000 mg/kg	0.0000	0.00%
Li 670.784†	-185.5	-0.00341 mg/L	0.002928	0.000 mg/kg	0.0000	0.00%
Mg 279.077†	6.2	-0.04764 mg/L	0.011914	0.000 mg/kg	0.0000	0.00%
Mg 280.271†	493.2	-0.01124 mg/L	0.000235	0.000 mg/kg	0.0000	0.00%
Mg 285.213†	14.2	-0.01496 mg/L	0.000493	0.000 mg/kg	0.0000	0.00%
Mn 257.610†	-16.3	-0.00510 mg/L	0.003567	0.000 mg/kg	0.0000	0.00%
Mn 259.372†	2216.9	-0.00279 mg/L	0.000512	0.000 mg/kg	0.0000	0.00%
Mn 260.568†	6.2	-0.00936 mg/L	0.000591	0.000 mg/kg	0.0000	0.00%
Mo 202.031†	-1.3	-0.05986 mg/L	0.018153	0.000 mg/kg	0.0000	0.00%
Mo 203.845†	0.1	-0.09165 mg/L	0.093823	0.00000 mg/kg	0.000000	0.00%
Mo 204.597†	0.1	-0.02443 mg/L	0.040846	0.00000 mg/kg	0.000000	0.00%
Na 588.995†	687.9	0.09303 mg/L	0.008286	0.000 mg/kg	0.0000	0.00%
Na 589.592†	-40.9	-0.00849 mg/L	0.010960	0.000 mg/kg	0.0000	0.00%
Ni 221.648†	0.9	0.01462 mg/L	0.009997	0.000 mg/kg	0.0000	0.00%
Ni 231.604†	7.6	0.03134 mg/L	0.005354	0.000 mg/kg	0.0000	0.00%
Ni 232.003†	-15.4	-0.1175 mg/L	0.01428	0.000 mg/kg	0.0000	0.00%
Pb 217.000†	5.8	-0.3073 mg/L	0.11463	0.000 mg/kg	0.0000	0.00%
Pb 220.353†	1.5	0.3230 mg/L	0.01829	0.000 mg/kg	0.0000	0.00%
Sb 206.836†	-1.0	-0.06737 mg/L	0.070131	0.000 mg/kg	0.0000	0.00%
Sb 217.582†	1.4	-0.05992 mg/L	0.112413	0.00000 mg/kg	0.000000	0.00%
Sb 231.146†	0.1	-0.00160 mg/L	0.046344	0.00000 mg/kg	0.000000	0.00%
Se 196.026†	1.3	0.1663 mg/L	0.49940	0.00000 mg/kg	0.000000	0.00%
Se 203.985†	2.1	0.07611 mg/L	0.137507	0.00000 mg/kg	0.000000	0.00%
Sn 189.927†	-0.2	-0.04393 mg/L	0.103078	0.00000 mg/kg	0.000000	0.00%
Sn 235.485†	3704.1	45.60 mg/L	0.249	0.000 mg/kg	0.0000	0.00%
Sn 283.998†	-106.8	-0.1651 mg/L	0.01852	0.000 mg/kg	0.0000	0.00%
Sr 407.771†	50.6	0.00020 mg/L	0.000084	0.000 mg/kg	0.0000	0.00%
Sr 421.552†	579.8	0.00561 mg/L	0.000160	0.000 mg/kg	0.0000	0.00%
Sr 460.733†	36.0	0.01398 mg/L	0.027753	0.00000 mg/kg	0.000000	0.00%
Ti 334.940†	290.9	0.01324 mg/L	0.003195	0.000 mg/kg	0.0000	0.00%
Ti 336.121†	206.9	0.01391 mg/L	0.002557	0.000 mg/kg	0.0000	0.00%
Ti 337.279†	79.3	0.01012 mg/L	0.001658	0.000 mg/kg	0.0000	0.00%
Tl 190.801†	1.0	0.1451 mg/L	0.39069	0.00000 mg/kg	0.000000	0.00%
Tl 276.787†	9.1	0.03718 mg/L	0.257322	0.00000 mg/kg	0.000000	0.00%
Tl 351.924†	5.5	0.03846 mg/L	0.018921	0.000 mg/kg	0.0000	0.00%
V 290.880†	21.0	-0.00301 mg/L	0.001051	0.000 mg/kg	0.0000	0.00%
V 309.310†	671.1	-0.01043 mg/L	0.009050	0.000 mg/kg	0.0000	0.00%
V 310.230†	264.9	0.04041 mg/L	0.004685	0.000 mg/kg	0.0000	0.00%
Zn 202.548†	0.7	0.00399 mg/L	0.005401	0.00000 mg/kg	0.000000	0.00%
Zn 206.200†	-3.6	-0.00276 mg/L	0.006788	0.00000 mg/kg	0.000000	0.00%
Zn 213.857†	8.6	0.00760 mg/L	0.003248	0.000 mg/kg	0.0000	0.00%

Sequence No.: 19
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/3/03 3:57:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	161943.1						1559.61	0.96%
Ag 328.068†	-7.2	-0.00177	mg/L	0.001281				72.20%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	18.7	0.00667	mg/L	0.002564				38.45%
Al 308.215†	70.8	0.1375	mg/L	0.02199				15.99%
QC value greater than the upper limit for Al 308.215 Recovery = Not calculated								
Al 394.401†	-29.4	-0.04531	mg/L	0.019585				43.22%
Al 396.153†	-478.0	-0.3675	mg/L	0.01058				2.88%
As 188.979†	0.2	0.03299	mg/L	0.201474				610.74%
As 193.696†	-0.2	-0.03280	mg/L	0.353008				>999.9%
As 197.197†	1.5	0.2201	mg/L	0.18110				82.27%
B 208.889†	5.0	0.07074	mg/L	0.013609				19.24%
B 249.677†	1.8	0.00526	mg/L	0.008838				167.93%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	-0.4	-0.00049	mg/L	0.002146				439.04%
Ba 233.527†	5.6	0.00276	mg/L	0.001398				50.70%
Ba 455.403†	163.6	0.00150	mg/L	0.000123				8.21%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	-3.4	-0.00003	mg/L	0.000193				628.79%
Be 234.861†	-1.1	-0.00010	mg/L	0.000180				186.49%
Be 313.042†	-193.6	-0.00355	mg/L	0.000073				2.05%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	-0.1	0.00000	mg/L	0.000177				>999.9%
Ca 315.887†	-13.5	-0.00872	mg/L	0.004730				54.25%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	365.8	0.2719	mg/L	0.00528				1.94%
Cd 214.440†	1.0	0.00143	mg/L	0.001883				131.68%
Cd 226.502†	-0.2	-0.00039	mg/L	0.003628				925.31%
Cd 228.802†	0.8	0.00127	mg/L	0.000712				55.94%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	-8.8	-0.00763	mg/L	0.005281				69.26%
Ce 413.764†	0.4	0.00042	mg/L	0.001332				320.29%
Ce 418.660†	932.8	0.6927	mg/L	0.01116				1.61%
Co 228.616†	2.4	0.00398	mg/L	0.001236				31.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	5.6	0.00983	mg/L	0.000663				6.74%
Co 238.892†	2.2	0.00652	mg/L	0.007505				115.11%
Cr 205.560†	-0.9	-0.01001	mg/L	0.020086				200.66%
Cr 267.716†	-2.2	-0.00424	mg/L	0.005660				133.64%
Cr 283.563†	-48.4	-0.01310	mg/L	0.000970				7.41%
QC value within limits for Cr 283.563 Recovery = Not calculated								
Cu 224.700†	-19.8	-0.1235	mg/L	0.01214				9.83%
Cu 324.752†	-413.0	-0.08787	mg/L	0.000880				1.00%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Cu 327.393†	-197.2	-0.09481	mg/L	0.001386				1.46%
Fe 238.204†	57.1	0.04958	mg/L	0.015537				31.34%
Fe 239.562†	42.1	0.05527	mg/L	0.015409				27.88%
Fe 259.939†	128.4	0.05445	mg/L	0.013007				23.89%
Fe 273.955†	6.3	0.02052	mg/L	0.002062				10.05%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-107.2	-0.09873	mg/L	0.059850				60.62%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 610.362†	1101.6	0.2178	mg/L	0.06755				31.01%
Li 670.784†	-625.8	-0.01519	mg/L	0.001959				12.90%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	4.1	0.01447	mg/L	0.025162				173.94%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mg 280.271†	126.2	0.00229	mg/L	0.000109				4.73%
Mg 285.213†	5.3	0.00149	mg/L	0.000252				16.88%
Mn 257.610†	-5.3	-0.00055	mg/L	0.000166				30.49%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 259.372†	0.0	-0.00008	mg/L	0.000334				424.31%
Mn 260.568†	-3.3	-0.00059	mg/L	0.000340				57.89%
Mo 202.031†	0.4	0.01526	mg/L	0.029612				194.02%
Mo 203.845†	1.1	0.07094	mg/L	0.098383				138.68%
Mo 204.597†	0.4	0.01097	mg/L	0.011646				106.20%
QC value within limits for Mo 204.597 Recovery = Not calculated								
Na 588.995†	716.1	0.09684	mg/L	0.022780				23.52%

Na 589.592†	-302.1	-0.06275	mg/L	0.017789	28.35%
QC value within limits for Na 589.592 Recovery = Not calculated					
Ni 221.648†	-0.9	-0.01387	mg/L	0.021064	151.85%
Ni 231.604†	5.2	0.02330	mg/L	0.002894	12.42%
QC value within limits for Ni 231.604 Recovery = Not calculated					
Ni 232.003†	-6.0	-0.04462	mg/L	0.011195	25.09%
Pb 217.000†	1.7	0.08734	mg/L	0.070959	81.25%
Pb 220.353†	0.5	0.01023	mg/L	0.040058	391.73%
QC value within limits for Pb 220.353 Recovery = Not calculated					
Sb 206.836†	0.6	0.03425	mg/L	0.026018	75.96%
Sb 217.582†	-0.6	-0.04337	mg/L	0.045749	105.49%
Sb 231.146†	-2.0	-0.09765	mg/L	0.021907	22.43%
Se 196.026†	0.4	0.08020	mg/L	0.455358	567.80%
Se 203.985†	-0.8	-0.1420	mg/L	0.18264	128.61%
Sn 189.927†	-1.9	-0.4039	mg/L	0.10466	25.91%
Sn 235.485†	-1.9	-0.06599	mg/L	0.058758	89.04%
Sn 283.998†	0.3	0.00519	mg/L	0.007853	151.27%
QC value within limits for Sn 283.998 Recovery = Not calculated					
Sr 407.771†	24.6	0.00011	mg/L	0.000104	94.48%
Sr 421.552†	566.6	0.00594	mg/L	0.000043	0.73%
Sr 460.733†	54.0	0.02422	mg/L	0.010846	44.78%
Ti 334.940†	27.2	0.00137	mg/L	0.000413	30.17%
Ti 336.121†	15.5	0.00114	mg/L	0.000719	63.19%
QC value within limits for Ti 336.121 Recovery = Not calculated					
Ti 337.279†	-8.9	-0.00135	mg/L	0.000653	48.33%
Tl 190.801†	0.3	0.07727	mg/L	0.191682	248.07%
Tl 276.787†	-14.2	-0.1828	mg/L	0.04586	25.09%
Tl 351.924†	9.3	0.08820	mg/L	0.108679	123.22%
V 290.880†	-15.7	-0.00863	mg/L	0.004449	51.57%
V 309.310†	60.7	0.01085	mg/L	0.001310	12.08%
V 310.230†	261.9	0.04213	mg/L	0.009018	21.40%
QC value within limits for V 310.230 Recovery = Not calculated					
Zn 202.548†	-3.2	-0.01346	mg/L	0.005487	40.75%
Zn 206.200†	-8.5	-0.03162	mg/L	0.005718	18.08%
Zn 213.857†	-11.8	-0.01593	mg/L	0.000932	5.85%
QC value within limits for Zn 213.857 Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 20 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 9/3/03 4:01:30 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	156782.1						4289.97	2.74%
Ag 328.068†	1021.5	0.2538	mg/L	0.00752				2.96%
QC value within limits for Ag 328.068 Recovery = 101.54%								
Ag 338.289†	707.7	0.2527	mg/L	0.00730				2.89%
Al 308.215†	600.4	1.145	mg/L	0.0418				3.66%
QC value greater than the upper limit for Al 308.215 Recovery = 114.45%								
Al 394.401†	616.7	0.8885	mg/L	0.02775				3.12%
Al 396.153†	781.2	0.6078	mg/L	0.02926				4.81%
As 188.979†	14.6	2.091	mg/L	0.1751				8.38%
As 193.696†	11.4	2.258	mg/L	0.3680				16.29%
As 197.197†	15.7	2.311	mg/L	0.3108				13.45%
B 208.889†	69.3	0.9851	mg/L	0.01938				1.97%
B 249.677†	355.7	1.018	mg/L	0.0194				1.90%
QC value within limits for B 249.677 Recovery = 101.80%								
B 249.772†	736.2	1.015	mg/L	0.0295				2.91%
Ba 233.527†	2193.4	1.066	mg/L	0.0315				2.95%
Ba 455.403†	117310.2	1.072	mg/L	0.0048				0.45%
QC value within limits for Ba 455.403 Recovery = 107.18%								
Ba 493.408†	96585.6	1.069	mg/L	0.0043				0.40%
Be 234.861†	11521.6	0.9983	mg/L	0.00751				0.75%
Be 313.042†	57228.5	1.048	mg/L	0.0038				0.36%
QC value within limits for Be 313.042 Recovery = 104.83%								

Be 313.107†	32326.3	1.064 mg/L	0.0046	0.43%
Ca 315.887†	1712.7	1.100 mg/L	0.0357	3.24%
Ca 317.933†	1850.6	1.373 mg/L	0.0517	3.76%
QC value greater than the upper limit for Ca 317.933 Recovery = 137.31%				
Cd 214.440†	771.1	1.092 mg/L	0.0276	2.52%
Cd 226.502†	610.9	1.005 mg/L	0.0344	3.43%
Cd 228.802†	785.1	0.8825 mg/L	0.02330	2.64%
QC value less than the lower limit for Cd 228.802 Recovery = 88.25%				
Ce 413.380†	1220.6	1.053 mg/L	0.0084	0.79%
Ce 413.764†	1024.1	1.025 mg/L	0.0217	2.12%
Ce 418.660†	2557.9	1.898 mg/L	0.0257	1.35%
Co 228.616†	651.1	1.092 mg/L	0.0338	3.10%
QC value within limits for Co 228.616 Recovery = 109.16%				
Co 230.786†	582.2	1.024 mg/L	0.0221	2.16%
Co 238.892†	342.0	0.9961 mg/L	0.05221	5.24%
Cr 205.560†	86.5	0.9448 mg/L	0.02412	2.55%
Cr 267.716†	546.1	1.067 mg/L	0.0405	3.79%
Cr 283.563†	3435.5	0.9285 mg/L	0.03268	3.52%
QC value within limits for Cr 283.563 Recovery = 92.85%				
Cu 224.700†	138.9	0.8621 mg/L	0.03211	3.72%
Cu 324.752†	4648.2	0.9866 mg/L	0.00360	0.37%
QC value within limits for Cu 324.752 Recovery = 98.66%				
Cu 327.393†	1988.3	0.9534 mg/L	0.02962	3.11%
Fe 238.204†	1291.7	1.131 mg/L	0.0367	3.24%
Fe 239.562†	886.6	1.171 mg/L	0.0411	3.51%
Fe 259.939†	2719.7	1.161 mg/L	0.0377	3.25%
QC value greater than the upper limit for Fe 259.939 Recovery = 116.14%				
Fe 273.955†	357.1	1.174 mg/L	0.0468	3.99%
K 766.490†	5134.5	4.729 mg/L	0.0310	0.65%
QC value within limits for K 766.490 Recovery = 94.58%				
Li 610.362†	7674.7	1.488 mg/L	0.2036	13.68%
Li 670.784†	42022.8	1.020 mg/L	0.0080	0.78%
QC value less than the lower limit for Li 670.784 Recovery = 20.41%				
Mg 279.077†	305.7	1.064 mg/L	0.0393	3.69%
Mg 280.271†	56710.6	1.032 mg/L	0.0017	0.17%
QC value within limits for Mg 280.271 Recovery = 103.17%				
Mg 285.213†	3789.8	1.066 mg/L	0.0347	3.25%
Mn 257.610†	9992.4	1.022 mg/L	0.0022	0.22%
QC value within limits for Mn 257.610 Recovery = 102.20%				
Mn 259.372†	9234.2	0.9833 mg/L	0.00708	0.72%
Mn 260.568†	5563.5	0.9736 mg/L	0.00417	0.43%
Mo 202.031†	-0.0	-0.00357 mg/L	0.038194	>999.9%
Mo 203.845†	2.2	0.1363 mg/L	0.06386	46.84%
Mo 204.597†	-0.3	-0.00786 mg/L	0.060587	770.58%
Na 588.995†	9027.7	1.221 mg/L	0.0592	4.85%
Na 589.592†	5015.9	1.042 mg/L	0.0116	1.11%
Ni 221.648†	70.5	1.047 mg/L	0.0476	4.54%
Ni 231.604†	231.1	1.044 mg/L	0.0330	3.16%
QC value within limits for Ni 231.604 Recovery = 104.43%				
Ni 232.003†	132.5	0.9464 mg/L	0.02894	3.06%
Pb 217.000†	38.0	1.981 mg/L	0.1215	6.13%
Pb 220.353†	103.0	2.136 mg/L	0.1092	5.11%
QC value within limits for Pb 220.353 Recovery = 106.80%				
Sb 206.836†	-1.4	-0.09606 mg/L	0.078701	81.93%
Sb 217.582†	0.6	0.03951 mg/L	0.012069	30.55%
Sb 231.146†	8.3	0.2704 mg/L	0.11508	42.56%
Se 196.026†	7.2	1.410 mg/L	0.3294	23.37%
Se 203.985†	5.2	0.8200 mg/L	0.45705	55.74%
Sn 189.927†	-0.7	-0.1477 mg/L	0.05889	39.87%
Sn 235.485†	21.8	0.3092 mg/L	0.05981	19.34%
Sn 283.998†	172.5	0.1021 mg/L	0.00169	1.65%
Sr 407.771†	231553.8	1.039 mg/L	0.0032	0.31%
Sr 421.552†	109317.7	1.146 mg/L	0.0051	0.44%
Sr 460.733†	2372.2	1.058 mg/L	0.0264	2.49%
Ti 334.940†	-1.5	-0.00050 mg/L	0.000296	59.58%
Ti 336.121†	-5.8	-0.00052 mg/L	0.000659	127.88%
Ti 337.279†	-24.4	-0.00358 mg/L	0.000914	25.55%
Tl 190.801†	23.0	5.232 mg/L	0.4103	7.84%
Tl 276.787†	377.3	4.817 mg/L	0.1947	4.04%
Tl 351.924†	523.1	4.950 mg/L	0.1611	3.25%
V 290.880†	1857.4	1.020 mg/L	0.0292	2.87%

V 309.310†	5850.5	1.055	mg/L	0.0021	0.20%
V 310.230†	6151.7	0.9884	mg/L	0.01431	1.45%
QC value within limits for V 310.230 Recovery = 98.84%					
Zn 202.548†	246.8	1.114	mg/L	0.0344	3.09%
Zn 206.200†	251.2	0.9354	mg/L	0.03575	3.82%
Zn 213.857†	806.4	1.086	mg/L	0.0307	2.83%
QC value within limits for Zn 213.857 Recovery = 108.57%					
QC Failed. Continue with analysis.					

Sequence No.: 21 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 9/3/03 4:05:53 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	160879.2						1540.21	0.96%
Ag 328.068†	-11.2	-0.00005	mg/L	0.000300				561.25%
Ag 338.289†	12.6	0.00509	mg/L	0.002946				57.86%
Al 308.215†	77.3	0.1394	mg/L	0.01720				12.33%
Al 394.401†	-43.1	-0.06702	mg/L	0.011000				16.41%
Al 396.153†	-470.2	-0.3939	mg/L	0.00484				1.23%
As 188.979†	0.8	0.1103	mg/L	0.15091				136.76%
As 193.696†	-1.1	-0.2177	mg/L	0.24181				111.09%
As 197.197†	0.3	0.04679	mg/L	0.156418				334.31%
B 208.889†	6.2	0.08900	mg/L	0.007502				8.43%
B 249.677†	2.7	0.00808	mg/L	0.005729				70.93%
B 249.772†	7.1	0.01008	mg/L	0.002842				28.20%
Ba 233.527†	-1.8	-0.00019	mg/L	0.002298				>999.9%
Ba 455.403†	255.8	0.00227	mg/L	0.000155				6.80%
Ba 493.408†	76.8	0.00079	mg/L	0.000369				46.71%
Be 234.861†	4.5	0.00048	mg/L	0.000107				22.18%
Be 313.042†	-179.5	-0.00331	mg/L	0.000219				6.61%
Be 313.107†	11.2	0.00035	mg/L	0.000221				63.38%
Ca 315.887†	26.1	0.01701	mg/L	0.001662				9.77%
Ca 317.933†	381.9	0.2845	mg/L	0.00426				1.50%
Cd 214.440†	0.6	0.00096	mg/L	0.001748				181.80%
Cd 226.502†	1.1	0.00170	mg/L	0.001542				90.66%
Cd 228.802†	2.2	0.00503	mg/L	0.004995				99.29%
Ce 413.380†	-7.0	-0.00618	mg/L	0.011458				185.48%
Ce 413.764†	0.5	0.00015	mg/L	0.011733				>999.9%
Ce 418.660†	925.4	0.6870	mg/L	0.00663				0.96%
Co 228.616†	4.2	0.00602	mg/L	0.004395				73.02%
Co 230.786†	5.5	0.00932	mg/L	0.006406				68.76%
Co 238.892†	-0.0	0.00039	mg/L	0.006810				>999.9%
Cr 205.560†	-0.8	-0.00854	mg/L	0.010715				125.45%
Cr 267.716†	-0.3	-0.00051	mg/L	0.005467				>999.9%
Cr 283.563†	-45.3	-0.01242	mg/L	0.001490				12.00%
Cu 224.700†	-17.6	-0.1129	mg/L	0.00341				3.02%
Cu 324.752†	-368.2	-0.08049	mg/L	0.000552				0.69%
Cu 327.393†	-175.4	-0.08641	mg/L	0.002111				2.44%
Fe 238.204†	62.0	0.05573	mg/L	0.002316				4.16%
Fe 239.562†	50.7	0.06838	mg/L	0.003335				4.88%
Fe 259.939†	147.6	0.06452	mg/L	0.001887				2.92%
Fe 273.955†	2.7	0.01095	mg/L	0.016055				146.62%
K 766.490†	6.9	0.00638	mg/L	0.036830				577.08%
Li 610.362†	1445.0	0.2832	mg/L	0.04778				16.87%
Li 670.784†	-179.7	-0.00422	mg/L	0.000928				21.98%
Mg 279.077†	5.2	0.01877	mg/L	0.006860				36.55%
Mg 280.271†	332.9	0.00610	mg/L	0.000064				1.06%
Mg 285.213†	26.0	0.00739	mg/L	0.000235				3.18%
Mn 257.610†	13.9	0.00107	mg/L	0.000088				8.21%
Mn 259.372†	48.5	0.00013	mg/L	0.000503				384.46%
Mn 260.568†	1.0	0.00022	mg/L	0.001022				461.02%
Mo 202.031†	30.4	1.067	mg/L	0.0365				3.42%
Mo 203.845†	20.0	1.251	mg/L	0.1581				12.64%
Mo 204.597†	37.6	0.9533	mg/L	0.04119				4.32%

QC value within limits for Mo 204.597 Recovery = 95.33%

Na 588.995†	1196.8	0.1619	mg/L	0.02440	15.07%
Na 589.592†	173.2	0.03598	mg/L	0.011868	32.99%
Ni 221.648†	0.4	0.00616	mg/L	0.038076	618.43%
Ni 231.604†	6.0	0.02679	mg/L	0.011673	43.58%
Ni 232.003†	-8.4	-0.06829	mg/L	0.013304	19.48%
Pb 217.000†	1.4	0.07567	mg/L	0.117248	154.96%
Pb 220.353†	0.1	0.00505	mg/L	0.052472	>999.9%
Sb 206.836†	29.6	1.643	mg/L	0.0387	2.35%

QC value less than the lower limit for Sb 206.836 Recovery = 82.14%

Sb 217.582†	30.7	2.159	mg/L	0.1325	6.14%

QC value within limits for Sb 217.582 Recovery = 107.96%

Sb 231.146†	40.3	1.949	mg/L	0.1532	7.86%

QC value within limits for Sb 231.146 Recovery = 97.45%

Se 196.026†	0.6	0.1200	mg/L	0.15971	133.04%
Se 203.985†	-2.3	-0.4818	mg/L	0.07723	16.03%
Sn 189.927†	18.9	4.010	mg/L	0.3247	8.10%
Sn 235.485†	154.4	4.981	mg/L	0.2174	4.36%
Sn 283.998†	629.5	1.901	mg/L	0.0384	2.02%

QC value less than the lower limit for Sn 283.998 Recovery = 38.01%

Sr 407.771†	124.7	0.00044	mg/L	0.000105	23.62%
Sr 421.552†	668.7	0.00690	mg/L	0.000096	1.39%
Sr 460.733†	-20.0	-0.00831	mg/L	0.038462	462.72%
Ti 334.940†	19285.2	0.9658	mg/L	0.00238	0.25%
Ti 336.121†	13482.4	0.9960	mg/L	0.00308	0.31%

QC value within limits for Ti 336.121 Recovery = 99.60%

Ti 337.279†	5983.5	0.9055	mg/L	0.01092	1.21%
Tl 190.801†	1.4	0.3327	mg/L	0.33363	100.28%
Tl 276.787†	-8.5	-0.1072	mg/L	0.08055	75.16%
Tl 351.924†	3.1	0.02607	mg/L	0.037530	143.96%
V 290.880†	-10.1	-0.00562	mg/L	0.000460	8.18%
V 309.310†	63.1	0.01140	mg/L	0.000936	8.21%
V 310.230†	233.2	0.03756	mg/L	0.003219	8.57%
Zn 202.548†	-0.7	-0.00171	mg/L	0.004700	274.52%
Zn 206.200†	-4.6	-0.01642	mg/L	0.002834	17.26%
Zn 213.857†	-5.1	-0.00630	mg/L	0.001727	27.42%

QC Failed. Continue with analysis.

==========

Sequence No.: 22 **Autosampler Location: 4**
Sample ID: Hi AQC **Date Collected: 9/3/03 4:09:41 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	157918.1						3439.78	2.18%
Ag 328.068†	-3.2	0.00028	mg/L	0.001565				563.53%
Ag 338.289†	9.6	0.00976	mg/L	0.002397				24.56%
Al 308.215†	50804.5	98.81	mg/L	0.242				0.24%

QC value within limits for Al 308.215 Recovery = 98.81%

Al 394.401†	61880.7	96.33	mg/L	0.425	0.44%
Al 396.153†	133540.4	102.5	mg/L	0.30	0.29%
As 188.979†	0.7	0.02771	mg/L	0.251948	909.23%
As 193.696†	-3.1	-0.6012	mg/L	0.46409	77.19%
As 197.197†	1.4	0.4256	mg/L	0.27059	63.58%
B 208.889†	5.8	0.07694	mg/L	0.025440	33.06%
B 249.677†	-2.3	-0.00437	mg/L	0.005455	124.94%
B 249.772†	82.7	0.05942	mg/L	0.003227	5.43%
Ba 233.527†	16.6	-0.00114	mg/L	0.001933	169.38%
Ba 455.403†	234.6	0.00184	mg/L	0.000125	6.77%
Ba 493.408†	91.6	-0.00007	mg/L	0.000240	332.09%
Be 234.861†	95.9	0.00031	mg/L	0.001465	469.45%
Be 313.042†	-191.2	-0.00369	mg/L	0.000072	1.95%
Be 313.107†	-1.1	-0.00005	mg/L	0.000068	141.89%
Ca 315.887†	161623.9	104.2	mg/L	0.50	0.48%

QC value within limits for Ca 315.887 Recovery = 104.22%

Ca 317.933†	136819.2	101.7	mg/L	0.59	0.58%

Cd 214.440†	3.0	0.00669	mg/L	0.002901	43.36%
Cd 226.502†	10.0	0.01170	mg/L	0.002751	23.51%
Cd 228.802†	0.3	0.00909	mg/L	0.007854	86.36%
Ce 413.380†	10.4	-0.01032	mg/L	0.004599	44.55%
Ce 413.764†	-6.9	-0.01498	mg/L	0.009816	65.52%
Ce 418.660†	975.6	0.7222	mg/L	0.01259	1.74%
Co 228.616†	2.4	0.00386	mg/L	0.002598	67.26%
Co 230.786†	2.0	-0.00026	mg/L	0.008247	>999.9%
Co 238.892†	79.4	0.06179	mg/L	0.011709	18.95%
Cr 205.560†	2.6	0.02718	mg/L	0.029373	108.06%
Cr 267.716†	-4.2	-0.00475	mg/L	0.003972	83.70%
Cr 283.563†	382.0	0.05522	mg/L	0.001681	3.04%
Cu 224.700†	-18.2	-0.1284	mg/L	0.00853	6.64%
Cu 324.752†	-382.7	-0.08395	mg/L	0.001064	1.27%
Cu 327.393†	-183.0	-0.09162	mg/L	0.002677	2.92%
Fe 238.204†	110457.9	96.02	mg/L	0.687	0.72%
Fe 239.562†	75854.0	99.56	mg/L	0.515	0.52%
Fe 259.939†	232787.9	98.80	mg/L	0.422	0.43%
Fe 273.955†	32361.9	106.3	mg/L	0.51	0.48%
QC value within limits for Fe 273.955 Recovery = 106.33%					
K 766.490†	101977.3	93.93	mg/L	0.385	0.41%
Li 610.362†	1458.3	0.2539	mg/L	0.15669	61.70%
Li 670.784†	429.4	0.01169	mg/L	0.003337	28.55%
Mg 279.077†	17191.3	59.89	mg/L	0.268	0.45%
QC value within limits for Mg 279.077 Recovery = 99.81%					
Mg 280.271†	3022037.4	55.02	mg/L	2.178	3.96%
Mg 285.213†	209989.5	59.07	mg/L	0.313	0.53%
Mn 257.610†	-22.6	-0.00510	mg/L	0.002485	48.76%
Mn 259.372†	1088.0	-0.00531	mg/L	0.001991	37.48%
Mn 260.568†	1.2	-0.00601	mg/L	0.000513	8.53%
Mo 202.031†	4.4	-0.00981	mg/L	0.045086	459.61%
Mo 203.845†	2.6	0.1224	mg/L	0.19802	161.82%
Mo 204.597†	-0.9	-0.03352	mg/L	0.010935	32.63%
Na 588.995†	763340.6	103.2	mg/L	3.81	3.69%
Na 589.592†	464549.3	96.49	mg/L	3.772	3.91%
QC value within limits for Na 589.592 Recovery = 96.49%					
Ni 221.648†	1.4	0.02840	mg/L	0.022383	78.82%
Ni 231.604†	8.7	0.03793	mg/L	0.009970	26.29%
Ni 232.003†	-15.6	-0.1143	mg/L	0.03782	33.09%
Pb 217.000†	3.4	-0.1580	mg/L	0.03034	19.20%
Pb 220.353†	6.2	0.2217	mg/L	0.05092	22.97%
Sb 206.836†	1.2	0.04190	mg/L	0.116175	277.28%
Sb 217.582†	-1.8	-0.1621	mg/L	0.06320	38.98%
Sb 231.146†	-3.2	-0.1554	mg/L	0.17689	113.80%
Se 196.026†	3.3	0.6055	mg/L	0.61499	101.56%
Se 203.985†	4.1	0.5959	mg/L	0.34747	58.31%
Sn 189.927†	1.7	0.3348	mg/L	0.07969	23.80%
Sn 235.485†	1825.1	21.75	mg/L	0.977	4.49%
Sn 283.998†	-74.8	-0.1244	mg/L	0.02591	20.83%
Sr 407.771†	434.9	-0.00042	mg/L	0.000052	12.24%
Sr 421.552†	843.4	0.00623	mg/L	0.000095	1.52%
Sr 460.733†	-9.0	-0.01140	mg/L	0.015422	135.34%
Ti 334.940†	-22.4	0.00108	mg/L	0.000121	11.24%
Ti 336.121†	27.7	-0.00114	mg/L	0.000801	70.49%
Ti 337.279†	-9.1	-0.00275	mg/L	0.000281	10.24%
Tl 190.801†	0.8	0.1941	mg/L	0.20818	107.24%
Tl 276.787†	160.7	0.6958	mg/L	0.09612	13.82%
Tl 351.924†	3.0	0.02041	mg/L	0.123787	606.63%
V 290.880†	-88.7	-0.04089	mg/L	0.005418	13.25%
V 309.310†	1411.6	-0.01416	mg/L	0.004577	32.33%
V 310.230†	264.9	0.04069	mg/L	0.009556	23.49%
Zn 202.548†	-1.1	-0.00799	mg/L	0.001726	21.59%
Zn 206.200†	-8.8	-0.02739	mg/L	0.008803	32.14%
Zn 213.857†	10.6	0.00580	mg/L	0.003117	53.72%

All analytes passed QC.