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7100113

ARDL Inc.
applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

9 June 2006

RECEIVED
JUN 12 2006

Mr. Steve Sommer
Indiana Dept. of Environmental Management
Office of Laboratory Quality
100 N. Senate Avenue, Room 1101
Indianapolis, IN 46204

RE: ARDL Report No. 1263
IDEM Project # LQ3275-LQ3304
BAA-02-003

Dear Mr. Sommer:

Please find enclosed ARDL's data package for samples received from the above referenced site on 5/11/06. The organization of the report follows a Level IV CLP type package. The report includes the following:

Volume 1 -	Inorganic Analysis Data Package
Volume 2 -	Organic Analysis Data Summary Package
Volume 3 -	Volatiles Analysis Data Package
Volume 4 -	Semivolatiles Analysis Data Package
Volume 5 -	Pesticides/PCB Analysis Data Package

If you have any questions regarding our format or require additional information, please do not hesitate to contact me at your earliest convenience.

We appreciate the opportunity to be of service to IDEM.

Sincerely,

Daniel Gillespie

Daniel J. Gillespie
Technical Services Manager

DJG/jcm

Enclosure

P.O. Box 1566 · 400 Aviation Drive · Mt. Vernon, Illinois 62864 · (618) 244-3235 · FAX (618) 244-1149

INORGANIC ANALYSIS DATA PACKAGE
ARDL REPORT NO. 1263
INDIANA DEPT. OF ENVIRONMENTAL MGMT
PROJECT NAME: LQ3275-LQ3304

VOLUME 1

IDEM-OLQ

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

SOW No.: BAA2-003

OLQ Sample No.	Lab Sample ID.
LQ3286	1263-1
LQ3287	1263-2
LQ3288	1263-3
LQ3289	1263-4
LQ3290	1263-5
LQ3303	1263-6
LQ3304	1263-7
LQ3304D	1263-7D
LQ3304S	1263-7S
LQ3304SD	1263-7D

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above and in the Case Narrative(s). Release of the data contained in this hard copy data package and, if applicable, the computer-readable data submitted on floppy diskette or other electronic medium has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel Gillespie Name: Daniel J. Gillespie

Date: 6/8/06 Title: Technical Services Manager

IDEM-OLQ

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ARDL, Inc. Contract: 1263

Lab Code: ARDL Case No: BAA2-003 SAS No.: _____ SDG No.: LQ3286

SOW No.: BAA2-003

Case Narrative

Seven (7) soil samples were received 11-May-06 for analysis. The requested analyses were total metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver).

Most analyses employed off-the-shelf USEPA CLP SOW ILMO4.0 compliant CRA/CRI solutions in place of the requisite CRQL standard linear range analysis. Also, an off-the-shelf CLP compliant spiking solution is used for ICP analysis.

Methodology and QC requirements employed in the subject analyses follow IDEM's BAA-2-003.

INORGANIC DATA QUALIFIERS

FORM I-IN includes fields for three types of result qualifiers. These qualifiers are completed as follows:

C (Concentration) qualifier:

B	-	Reported value obtained from a reading between the CRDL and IDL.
U	-	Analyte was analyzed for but not detected.

Q qualifier -- Specified entries and their meanings are as follows:

E	-	The reported value is estimated because of the presence of interference. This determination is from: 1) ICP serial dilution results exceeding specified limits; or 2) very low (<40%) GFAA post-digestion spike recovery.
M	-	Duplicate injection precision not met.
N	-	Spiked sample recovery not within control limits.
S	-	The reported value was determined by the Method of Standard Additions (MSA).
W	-	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
*	-	Duplicate analysis not within control limits.
+	-	Correlation coefficient for the MSA is less than 0.995.
NOTE:		Entering 'S', 'W' or '+' is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier -- Enter:

'P' for ICP
'A' for Flame AA
'F' for Furnace AA
'CV' for manual Cold Vapor AA
'C' for Manual Spectrophotometric

SAMPLE CUSTODY CHAIN - IDEM OFFICE OF LAND QUALITY

State Form 42091 (R / 2-03)

Please Send Report to:
IDEM
OLQ Chemistry Section
Attn: QA Officer
100 N Senate Avenue, N1101
P. O. Box 6015
Indianapolis, IN 46206-6015

(1) SAMPLE CERTIFICATION - I certify the following samples were collected by me or in my presence:	Print Name: KENNETH C. McDANIEL
Sample Date(s): MAY 2006	Signature: Kenneth C. McDaniel

(2A-2C) SAMPLE INFORMATION			(2D) COUNTS				(2E-2F) ANALYSES REQUESTED									(2G) COMMENTS	(2H-2J) DATE & TIME		
Laboratory Control Number (Lab Use)	IDEM Sample Number	Matrix or Sample Type	Glass Bottles	Plastic Bottles	40 ml Vials	Other	VOC	SVOC	PCB/PESTICIDES	METALS	% SOLIDS						Date	Time	AM	PM
1263-6	LQ3303	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	10:45	X	
7	LQ3304	SOIL	4	2	6		X	X	X	X	X						10 MAY 2006	9:36	X	
1	LQ3286	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	5:15		X
2	LQ3287	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	2:35		X
3	LQ3288	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	2:45		X
4	LQ3289	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	2:15		X
5	LQ3290	SOIL	2	1	3		X	X	X	X	X						10 MAY 2006	11:00	X	

(3) REQUIRED TURNAROUND TIME (with full documentation)			
(30 days)	14 days	7 days	2 days

(4) COMMENTS

(5) TRANSFER OF CUSTODY - I certify that I received the above samples.		Date	Time
Relinquished by:	Sign: Kenneth C. McDaniel	10 MAY 2006	7:36 AM / PM
Received by:	Sign:		
Relinquished by:	Sign:		AM / PM
Received by:	Sign:		

FOR LABORATORY USE ONLY:	
Cooler Temp: 4°C	Sample Condition: Good

(6) LABORATORY RECEIPT OF SAMPLES			
I certify that I received the above samples. After recording these samples in the official logbook, they will remain in the custody of competent lab personnel or be secured in a locked area at all times.			
Received by:	Sign: R. Cochrum	Date	Time
Laboratory:	ARDL, INC	5/11/06	0915 AM / PM
Address:	400 AVIATION DR; MT VERNON, IL		

(7) DISTRIBUTION: PINK COPY - IDEM Sampler YELLOW COPY - Lab (Keep) WHITE COPY - Lab (To be Returned to IDEM with Data Package)

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COOLER RECEIPT REPORT
ARDL, INC.

ARDL #: 1263

Cooler # ND27

Number of Coolers In Shipment: 7

Project:: LQ3275-3304

Date Received: 5-11-06

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler was opened: 5/11/06 (Signature) DL Cochrum

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO
   If YES, enter carrier name and airbill number here: Master Fed Ex 8571 1463 4542 MPS# 7941 4344910
2. Were custody seals on outside of cooler? ..... (YES) NO N/A
   How many and where? 1 (front) ,Seal Date: 5-10-06 ,Seal Name: Can't read
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO N/A
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (YES) NO
5. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO N/A
7. Were custody papers signed in appropriate place by ARDL personnel? ..... (YES) NO N/A
8. Was project identifiable from custody papers? If YES, enter project name at the top of this form ..... (YES) NO N/A
9. Was a separate container provided for measuring temperature? YES ✓ NO ___ Cooler Temp. 4.0 C

B. **LOG-IN PHASE:** Date samples were logged-in: 5-11-06 (Signature) DL Cochrum

10. Describe type of packing in cooler: loose ice / bubble pack / foam
11. Were all bottles sealed in separate plastic bags? ..... YES (NO) N/A
12. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO
13. Were bottle labels complete ? ..... (YES) NO
14. Did all bottle labels agree with custody papers? ..... (YES) NO
15. Were correct containers used for the tests indicated? ..... (YES) NO
16. Was pH correct on preserved water samples? ..... YES NO (N/A)
17. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
18. Were bubbles absent in VOA samples? If NO, list by sample #.: _____ YES NO (N/A)
19. Was the ARDL project coordinator notified of any deficiencies? ..... YES NO (N/A)

Comments and/or Corrective Action:
(By: Signature) Date:

Sample Transfer	
Fraction: VOA	Fraction: All else
Area #: GCMS	Area #: Walkin
By: dlc	By: dlc
On: 5-11-06	On: 5-11-06

Soil

M\Admin\Forms\coolre2 Rev. 10/31/96

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COOLER RECEIPT REPORT
ARDL, INC.

ARDL #: 1263

Cooler # 23

Number of Coolers In Shipment: 7

Project:: LO 3275-3304

Date Received: 5-11-06

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler was opened: 5/11/06 (Signature) DL Cochrum

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO
   If YES, enter carrier name and airbill number here: Master fedEx 8571 1463 4542 MPS# 7941 4634 4921
2. Were custody seals on outside of cooler? ..... (YES) NO N/A
   How many and where? 1 (back) , Seal Date: 5-10-06 , Seal Name: Kenneth McDaniel
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO N/A
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (YES) NO
5. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES (NO)
6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO (N/A)
7. Were custody papers signed in appropriate place by ARDL personnel? ..... YES NO (N/A)
8. Was project identifiable from custody papers? If YES, enter project name at the top of this form ..... YES NO (N/A)
9. Was a separate container provided for measuring temperature? YES____ NO ✓ Cooler Temp. 3.8 C

B. **LOG-IN PHASE:** Date samples were logged-in: 5-11-06 (Signature) DL Cochrum

10. Describe type of packing in cooler: loose ice / bubble pack / foam
11. Were all bottles sealed in separate plastic bags? ..... YES (NO) N/A
12. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO
13. Were bottle labels complete ? ..... YES (NO)
14. Did all bottle labels agree with custody papers? NA see # 13 ..... YES NO
15. Were correct containers used for the tests indicated? ..... (YES) NO
16. Was pH correct on preserved water samples? ..... YES NO (N/A)
17. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
18. Were bubbles absent in VOA samples? If NO, list by sample #.: _____ YES NO (N/A)
19. Was the ARDL project coordinator notified of any deficiencies? ..... YES NO (N/A)

Comments and/or Corrective Action:
(By: Signature) Date:

Sample Transfer	
Fraction: VOA	Fraction: all else
Area #: GCMS	Area #: Walkin
By: dlc	By: dlc
On: 5-11-06	On: 5-11-06

Soil

M\Admin\Forms\coolre2 Rev. 10/31/96

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FedEx Express **US Airbill**

FedEx Tracking Number 8571 1463 4542

Form ID No. 0200

Recipient's Copy

1 From

Date 10 MAY 2006 [redacted]

Sender's Name KENNETH C M'DANIEL Phone ~~618 244 7275~~ 317-691-6370

Company STATE OF INDIANA, IDEM

Address 100 NORTH SENATE AVE

Dept./Floor/Suite/Room

City INDIANAPOLIS State IN ZIP 46204

2 Your Internal Billing Reference

3 To

Recipient's Name DONNA COCKRUM Phone 618 244 2275

Company ARDL INC

Recipient's Address 400 AVIATION DRIVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City MOUNT VERNON State IL ZIP 62864

8571 1463 4542

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

[redacted] 122

Total Packages	Total Weight	Total Declared Value†	Total Charges
		$ .00	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

520

Rev. Date 8/05 Part #158281 ©1994–2005 FedEx PRINTED IN U.S.A. SRY

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10067

ARDL, INC

SAMPLE FLOW SHEET

IDEM SDG#: 1263 Project Name: LQ3275-3304 Proj/D.O.# BAA 02-003

RECEIVED: 5-11-06

DUE DATE: 6-1-06

STD-TA 21 days

RUSH-TA

EMERG-TA

* Indicates No Separate Container for Parameter

#	CUSTOMER #	DESCR/LOCATION	Sediment/Soil		VOC - 8260	SVOC - 8270	Pest/PCB	Metals-A (8 RCRA)	TS										DATE COLLECTED	TIME COLLECTED
1	LQ3286	None	✓		3	1	*	1	1										5/10	1715
2	87		✓		3	1	*	1	1											1435
3	88		✓		3	1	*	1	1											1445
4	89		✓		3	1	*	1	1											1415
5	90		✓		3	1	*	1	1											1100
6	LQ3303		✓		3	1	*	1	1											1045
7	04		✓		9	3	*	1	1											0936

RECEIVED BY: D Blackburn DATE: 5-12-06 PAGE# 1 OF 1

M:\ADMIN\QC\QCFORMS\FLOWSHT.xls

REV. 10/26/98

10008

IDEM-OLQ

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3286

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-1

Level (low/med): LOW Date Received: 05/11/06

% Solids: 93.3

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	18.5			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.9	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.086	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3287

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-2

Level (low/med): LOW Date Received: 05/11/06

% Solids: 91.0

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	5.8			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.9	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.088	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

IDEM-OLQ

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3288

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-3

Level (low/med): LOW Date Received: 05/11/06

% Solids: 90.7

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	5.5			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.087	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

IDEM-OLQ

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3289

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water): SOIL Lab Sample ID: 1263-4

Level (low/med): LOW Date Received: 05/11/06

% Solids: 90.8

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	37.6			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	13.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.8	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.088	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

IDEM-OLQ

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3290

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-5

Level (low/med): LOW Date Received: 05/11/06

% Solids: 88.6

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	51.4			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	27.6			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3303

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-6

Level (low/med): LOW Date Received: 05/11/06

% Solids: 88.4

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.7			P
7440-39-3	Barium	21.0			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.3	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.090	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

1

INORGANIC ANALYSIS DATA SHEET

OLQ SAMPLE NO.

LQ3304

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Lab Sample ID: 1263-7

Level (low/med): LOW Date Received: 05/11/06

% Solids: 88.2

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.2			P
7440-39-3	Barium	19.3			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	4.8	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.091	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: ROCKS, PEBBLES

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: SPEX

Continuing Calibration Source: SPEX

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	4768.00	95.4	2500.0	2507.10	100.3	2493.30	99.7	P
Barium	10000.0	9819.30	98.2	5000.0	5355.60	107.1	5416.50	108.3	P
Beryllium									NR
Cadmium	1000.0	941.23	94.1	500.0	487.55	97.5	483.44	96.7	P
Calcium									NR
Chromium	2000.0	1875.40	93.8	1000.0	983.12	98.3	983.01	98.3	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	5000.0	4677.80	93.6	2500.0	2460.60	98.4	2452.60	98.1	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	5000.0	4806.40	96.1	2500.0	2557.80	102.3	2535.40	101.4	P
Silver	1000.0	908.97	90.9	500.0	478.92	95.8	482.74	96.5	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: SPEX

Continuing Calibration Source: SPEX

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				2500.0	2578.30	103.1	2605.80	104.2	P
Barium				5000.0	5439.70	108.8	5386.20	107.7	P
Beryllium									NR
Cadmium				500.0	506.34	101.3	515.79	103.2	P
Calcium									NR
Chromium				1000.0	1018.40	101.8	1029.90	103.0	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				2500.0	2536.10	101.4	2553.90	102.2	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				2500.0	2629.70	105.2	2654.00	106.2	P
Silver				500.0	496.55	99.3	501.00	100.2	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: SPEX

Continuing Calibration Source: SPEX

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				2500.0	2633.60	105.3			P
Barium				5000.0	5333.40	106.7			P
Beryllium									NR
Cadmium				500.0	526.88	105.4			P
Calcium									NR
Chromium				1000.0	1042.80	104.3			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				2500.0	2586.80	103.5			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				2500.0	2703.00	108.1			P
Silver				500.0	504.56	100.9			P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: LAB PREPARED

Continuing Calibration Source: LAB PREPARED

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	6.0	5.95	99.2	4.0	3.99	99.8	4.00	100.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: LAB PREPARED

Continuing Calibration Source: LAB PREPARED

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				4.0	3.87	96.8	3.87	96.8	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: LAB PREPARED

Continuing Calibration Source: LAB PREPARED

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				4.0	4.01	100.3	3.99	99.8	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Initial Calibration Source: LAB PREPARED

Continuing Calibration Source: LAB PREPARED

Concentration Units: UG/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				4.0	3.95	98.8			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

IDEM-OLQ

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: SPEX

Concentration Units: UG/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic				20.0	23.72	118.6	21.88	109.4
Barium								
Beryllium								
Cadmium				10.0	9.75	97.5	10.91	109.1
Calcium								
Chromium				20.0	19.64	98.2	21.88	109.4
Cobalt								
Copper								
Iron								
Lead				6.0	6.07	101.2	7.64	127.4
Magnesium								
Manganese								
Mercury	0.2	0.19	95.0					
Nickel								
Potassium								
Selenium				10.0	9.15	91.5	8.25	82.5
Silver				20.0	22.03	110.2	22.50	112.5
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

IDEM-OLQ

3

BLANKS

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	6.0	U	6.0	U	6.0	U	6.0	U	0.600	U	P
Barium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Beryllium											NR
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	0.200	U	P
Calcium											NR
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.300	U	P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.080	U	CV
Nickel											NR
Potassium											NR
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Silver	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

IDEM-OLQ

3

BLANKS

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			6.0	U	6.0	U					P
Barium			5.0	U	5.0	U					P
Beryllium											NR
Cadmium			2.0	U	2.0	U					P
Calcium											NR
Chromium			5.0	U	5.0	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead			3.0	U	3.0	U					P
Magnesium											NR
Manganese											NR
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel											NR
Potassium											NR
Selenium			5.0	U	5.0	U					P
Silver			5.0	U	5.0	U					P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

IDEM-OLQ

3

BLANKS

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003AS No.: _____ SDG No.: LQ3286

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.2	U							CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

ICP ID Number: TRACE ICS Source: SPEX

Concentration Units: UG/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	452750	456570.0	91.3	475050	471410.0	94.3
Antimony		1000						
Arsenic		1000	0	927.5	92.7	5	967.8	96.8
Barium		500	1	482.1	96.4	1	486.4	97.3
Beryllium		500						
Cadmium		1000	3	831.3	83.1	1	887.8	88.8
Calcium	500000	500000	415360	418640.0	83.7	459080	444290.0	88.9
Chromium		500	1	434.8	87.0	0	457.6	91.5
Cobalt		500						
Copper		500						
Iron	200000	200000	154350	156780.0	78.4	168090	164070.0	82.0
Lead		1000	1	841.9	84.2	2	879.6	88.0
Magnesium	500000	500000	463470	471650.0	94.3	520610	502330.0	100.5
Manganese		500						
Mercury								
Nickel		1000						
Potassium								
Selenium		1000	-10	923.2	92.3	-8	965.0	96.5
Silver		1000	6	926.9	92.7	4	968.4	96.8
Sodium		1000						
Thallium		1000						
Vanadium		500						
Zinc		1000						

IDEM-OLQ

5A

SPIKE SAMPLE RECOVERY

OLQ SAMPLE NO.

LQ3304 S

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003SAS No.: _____ SDG No.: LQ3286

Matrix: SOIL Level (low/med): LOW

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	80-120	214.3084		2.1949		226.76	93.5		P
Barium	80-120	244.7279		19.3367		226.76	99.4		P
Beryllium									NR
Cadmium	80-120	5.3070		0.2268	U	5.67	93.6		P
Calcium									NR
Chromium	80-120	26.8719		7.0556		22.68	87.4		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	80-120	56.9830		4.7965	B	56.69	92.1		P
Magnesium									NR
Manganese									NR
Mercury	75-125	0.4762		0.0907	U	0.45	105.0		CV
Nickel									NR
Potassium									NR
Selenium	80-120	211.8707		0.5669	U	226.76	93.4		P
Silver	80-120	5.7687		0.5669	U	5.67	101.8		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

IDEM-OLQ

OLQ SAMPLE NO.
LQ3261 S/SD

5B

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix: SOIL Level (low/med): LOW

% Solids for Sample: 88.2 % Solids for Duplicate: 86.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit RPD	Matrix Spike Duplicate Result (SSR)	C	Matrix Spike Duplicate Recovery %R	Matrix Spike Recovery %R	MS/MSD RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		190.5617		94.0	93.5	0.5		P
Barium		215.7573		99.0	99.4	0.3		P
Beryllium								NR
Cadmium		4.6645		93.0	93.6	0.6		P
Calcium								NR
Chromium	5.0	24.0883		89.0	87.4	1.3		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		50.9709		93.2	92.1	1.1		P
Magnesium								NR
Manganese								NR
Mercury	0.2	0.4173		104.0	105.0	1.0		CV
Nickel								NR
Potassium								NR
Selenium		188.6158		94.0	93.4	0.6		P
Silver	3.0	5.0391		100.5	101.8	1.3		P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Comments:

7

LABORATORY CONTROL SAMPLE

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Solid LCS Source: ERA (LOT D047540)

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solids (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				142.0	137.8		113.0	171.0	97.0
Barium				224.0	230.1		184.0	264.0	102.7
Beryllium									
Cadmium				64.5	60.9		52.6	76.4	94.4
Calcium									
Chromium				86.5	81.6		67.9	105.0	94.4
Cobalt									
Copper									
Iron									
Lead				93.6	88.5		75.4	112.0	94.5
Magnesium									
Manganese									
Mercury				2.8	2.9		1.9	3.7	103.9
Nickel									
Potassium									
Selenium				124.0	120.0		93.7	154.0	96.8
Silver				171.0	169.5		105.0	237.0	99.1
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

IDEM-OLQ

9

ICP SERIAL DILUTION

OLQ SAMPLE NO.

LQ3304L

Lab Name: ARDL, INC. Contract No.: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Matrix (soil/water) SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	19.36		39.00	B	101.5		P
Barium	170.55		184.00	B	7.9		P
Beryllium							NR
Cadmium	2.00	U	10.00	U			P
Calcium							NR
Chromium	62.23		70.95	B	14.0		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	42.31	B	40.80	B	3.5		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium	5.00	U	25.00	U			P
Silver	5.00	U	25.00	U			P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

IDEM-OLQ

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

ICP ID Number: TRACE Date: 04/01/06

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	MQL ug/L	IDL ug/L	M
Aluminum					
Antimony					
Arsenic	189.04		10.0	6.0	P
Barium	493.41		50.0	5.0	P
Beryllium					
Boron					
Cadmium	226.50		5.0	2.0	P
Calcium					
Chromium	267.72		50.0	5.0	P
Cobalt					
Copper					
Iron					
Lead	220.35		50.0	3.0	P
Magnesium					
Manganese					
Mercury					
Molybdenum					
Nickel					
Potassium					
Selenium	196.02		10.0	5.0	P
Silver	328.07		30.0	5.0	P
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					
Zinc 2					

Comments: _____

IDEM-OLQ

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

ICP ID Number: _____ Date: 04/01/06

Flame AA ID Number: _____

Furnace AA ID Number: AA20 PLUS

Analyte	Wave-length (nm)	Back-ground	MQL ug/L	IDL ug/L	M
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury	253.70	BD	0.5	0.2	CV
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc					

Comments: _____

IDEM-OLQ

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: ___ SDG No.: LQ3286

ICP ID Number: TRACE Date: 12/03/05

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Zn
Aluminum	308.22	--	0.000000	-0.000059	0.000118	0.000000
Antimony	206.84	0.000000	0.000000	0.000035	0.000000	0.000000
Arsenic	189.04	0.000000	-0.003670	-0.018120	-0.002090	0.000000
Barium	493.41	0.000000	0.000000	0.000090	0.000000	0.000000
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000
Cadmium	226.50	0.000000	-0.000300	0.087953	0.000000	0.000000
Calcium	317.93	0.000000	--	-0.000259	0.000000	0.000000
Chromium	267.72	0.000000	0.000000	0.000000	0.000000	0.000000
Cobalt	228.62	0.000000	0.000000	0.000000	0.000000	0.000000
Copper	324.75	0.000000	0.000000	0.000000	0.000000	0.000000
Iron	271.44	0.000000	0.000000	--	-0.000508	0.000000
Lead-1	220.35	0.558329	-0.008942	0.099384	-0.001505	0.000000
Lead-2	220.35	-0.255878	-0.003023	0.022323	0.000000	0.000000
Magnesium	279.03	0.000180	0.000000	0.000000	--	0.000000
Manganese	257.61	0.000010	0.000000	0.000000	0.000020	0.000000
Mercury	--	--	--	--	--	--
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium-1	196.02	0.028598	-0.006027	0.019795	0.000000	0.000000
Selenium-2	196.02	0.001837	-0.005389	-0.338810	0.000000	0.000000
Silver	328.07	0.000000	0.000000	-0.000015	0.000000	0.000000
Sodium	330.23	0.000134	0.000636	0.000695	0.000000	0.259533
Thallium	190.86	-0.008085	0.000000	-0.010014	0.000000	0.000000
Vanadium	292.40	0.000000	0.000000	-0.000112	0.000000	0.000000
Zinc-1	206.20	0.000002	0.000000	0.000026	0.000057	--
Zinc-2	213.86	0.000002	0.000000	0.000102	0.000059	--

Comments:

IDEM-OLQ

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: ___ SDG No.: LQ3286

ICP ID Number: TRACE Date: 12/03/05

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	V	Mn	Ni	
Aluminum	308.22	0.000000	0.027090	0.000000	0.000000	--
Antimony	206.84	0.013900	-0.003103	0.000000	0.000000	--
Arsenic	189.04	-4.080300	0.000000	0.000000	0.000000	--
Barium	493.41	0.000000	0.000000	0.000000	0.000000	--
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	--
Cadmium	226.50	0.000000	0.000000	0.000000	0.000000	--
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	--
Chromium	267.72	--	-0.000710	0.000000	0.000000	--
Cobalt	228.62	0.000000	0.000000	0.000000	0.000000	--
Copper	324.75	0.000000	0.000000	0.000000	0.000000	--
Iron	271.44	0.002583	0.062545	0.000000	0.000000	--
Lead-1	220.35	0.000000	0.000000	0.000000	0.000000	--
Lead-2	220.35	0.000000	-0.372003	0.000000	0.000000	--
Magnesium	279.03	0.001414	0.000000	0.000000	0.000000	--
Manganese	257.61	0.000000	0.000000	--	0.000000	--
Mercury	--	--	--	--	--	--
Nickel	231.60	0.000000	0.000000	0.000000	--	--
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	--
Selenium-1	196.02	0.000000	0.000000	0.000000	0.000000	--
Selenium-2	196.02	0.000000	0.000000	0.000000	0.000000	--
Silver	328.07	0.000000	0.000000	0.000000	0.000000	--
Sodium	330.23	0.000000	0.002381	0.000000	0.000000	--
Thallium	190.86	0.311561	-2.151060	0.000000	0.000000	--
Vanadium	292.40	-0.003828	--	0.000000	0.000000	--
Zinc-1	206.20	-0.018622	0.000000	0.000000	0.000000	--
Zinc-2	213.86	0.000000	0.000000	0.000333	0.005108	--

Comments: _____

IDEM-OLQ

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: SDG No.: LQ3286

ICP ID Number: TRACE Date: 04/01/06

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	500000	P
Antimony	15.00	50000	P
Arsenic	15.00	50000	P
Barium	15.00	50000	P
Beryllium	15.00	10000	P
Boron	15.00	20000	P
Cadmium	15.00	10000	P
Calcium	15.00	300000	P
Chromium	15.00	50000	P
Cobalt	15.00	50000	P
Copper	15.00	50000	P
Iron	15.00	500000	P
Lead	15.00	250000	P
Magnesium	15.00	600000	P
Manganese	15.00	25000	P
Mercury	--	--	-
Molybdenum	15.00	25000	P
Nickel	15.00	25000	P
Potassium	15.00	--	P
Selenium	15.00	50000	P
Silver	15.00	20000	P
Sodium	15.00	20000	P
Strontium	15.00	10000	P
Thallium	15.00	100000	P
Tin	15.00	25000	P
Titanium	15.00	25000	P
Vanadium	15.00	25000	P
Zinc 1	15.00	50000	P
Zinc 2	15.00	5000	P

Comments: _____

IDEM-OLQ

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PREPARATION LOG

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Method: P

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
PBS	05/17/06	1.00	100
LCSS	05/17/06	1.00	100
LQ3286	05/17/06	1.00	100
LQ3287	05/17/06	1.00	100
LQ3288	05/17/06	1.00	100
LQ3289	05/17/06	1.00	100
LQ3290	05/17/06	1.00	100
LQ3303	05/17/06	1.00	100
LQ3304	05/17/06	1.00	100
LQ3304S	05/17/06	1.00	100
LQ3304SD	05/17/06	1.00	100

IDEM-OLQ

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PREPARATION LOG

Lab Name: ARDL, INC. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No.: LQ3286

Method: CV

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
PBS	05/15/06	0.25	100
LCSS	05/15/06	0.25	100
LQ3286	05/15/06	0.25	100
LQ3287	05/15/06	0.25	100
LQ3288	05/15/06	0.25	100
LQ3289	05/15/06	0.25	100
LQ3290	05/15/06	0.25	100
LQ3303	05/15/06	0.25	100
LQ3304	05/15/06	0.25	100
LQ3304S	05/15/06	0.25	100
LQ3304SD	05/15/06	0.25	100

IDEM-OLQ

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ANALYSIS RUN LOG

Lab Name: ARDL, Inc. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No. LQ3286

Instrument ID Number: TRACE Method: P

Start Date: 05/18/06 End Date: 05/19/06

EPA Sample No.	D/F	Time	%R	ANALYTES																											
				AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	CN
S0	1.00	1616																													
S	1.00	1625																													
S	1.00	1633																													
S	1.00	1641																													
S	1.00	1648																													
S	1.00	1653																													
ICV	1.00	1659				X	X			X		X				X							X	X							
ICB	1.00	1708				X	X			X		X				X							X	X							
CRI	1.00	1717				X	X			X		X				X							X	X							
ICSA	1.00	1727		X		X	X			X	X	X			X	X	X						X	X							
ICSAB	1.00	1736		X		X	X			X	X	X			X	X	X						X	X							
CCV	1.00	1745				X	X			X		X				X							X	X							
CCB	1.00	1754				X	X			X		X				X							X	X							
ZZZZZZ	1.00	1803																													
ZZZZZZ	1.00	1812																													
ZZZZZZ	1.00	1821																													
ZZZZZZ	1.00	1830																													
ZZZZZZ	1.00	1839																													
ZZZZZZ	1.00	1848																													
ZZZZZZ	5.00	1857																													
ZZZZZZ	1.00	1907																													
ZZZZZZ	1.00	1916																													
ZZZZZZ	1.00	1925																													
CCV	1.00	1934				X	X			X		X				X							X	X							
CCB	1.00	1943				X	X			X		X				X							X	X							
ZZZZZZ	1.00	1952																													
ZZZZZZ	1.00	2001																													
LCSS	1.00	2010				X	X			X		X				X							X	X							
ZZZZZZ	1.00	2019																													
PBS	1.00	2028				X	X			X		X				X							X	X							
LQ3286	1.00	2037				X	X			X		X				X							X	X							
LQ3287	1.00	2046				X	X			X		X				X							X	X							
LQ3288	1.00	2056				X	X			X		X				X							X	X							
LQ3289	1.00	2105				X	X			X		X				X							X	X							
CCV	1.00	2114				X	X			X		X				X							X	X							
CCB	1.00	2123				X	X			X		X				X							X	X							
LQ3290	1.00	2132				X	X			X		X				X							X	X							
LQ3303	1.00	2141				X	X			X		X				X							X	X							
LQ3304	1.00	2150				X	X			X		X				X							X	X							
LQ3304S	1.00	2159				X	X			X		X				X							X	X							
LQ3304SD	1.00	2208				X	X			X		X				X							X	X							

IDEM-OLQ

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ANALYSIS RUN LOG

Lab Name: ARDL, Inc. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No. LQ3286

Instrument ID Number: TRACE Method: P

Start Date: 05/18/06 End Date: 05/19/06

EPA Sample No.	D/F	Time	%R	ANALYTES																										
				AL	SB	AS	BA	BE	B	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	MO	NI	K	SE	AG	NA	SR	TL	SN	TI	V	ZN	CN
LQ3304L	5.00	2217				X	X			X		X				X							X	X								
ZZZZZZ	1.00	2226																														
ZZZZZZ	1.00	2235																														
ZZZZZZ	1.00	2244																														
ZZZZZZ	1.00	2254																														
CCV	1.00	2303				X	X			X		X				X							X	X								
CCB	1.00	2312				X	X			X		X				X							X	X								
ZZZZZZ	1.00	2321																														
ZZZZZZ	1.00	2330																														
ZZZZZZ	1.00	2339																														
ZZZZZZ	1.00	2348																														
ZZZZZZ	1.00	2357																														
ZZZZZZ	5.00	0006																														
CRI	1.00	0015				X	X			X		X				X							X	X								
ICSA	1.00	0024		X		X	X			X	X	X			X	X	X						X	X								
ICSAB	1.00	0033		X		X	X			X	X	X			X	X	X						X	X								
CCV	1.00	0043				X	X			X		X				X							X	X								
CCB	1.00	0052				X	X			X		X				X							X	X								

IDEM-OLQ

14

ANALYSIS RUN LOG

Lab Name: ARDL, Inc. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No. LQ3286

Instrument ID Number: AA20 PLUS Method: CV

Start Date: 05/15/06 End Date: 05/15/06

EPA Sample No.	D/F	Time	%R	ANALYTES																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0.00	1.00	1501																									
S0.20	1.00	1502																									
S0.50	1.00	1503																									
S1.00	1.00	1504																									
S5.00	1.00	1505																									
S10.00	1.00	1506																									
ICV	1.00	1507																X									
ICB	1.00	1508																X									
CRA	1.00	1509																X									
CCV	1.00	1510																X									
CCB	1.00	1511																X									
ZZZZZZ	1.00	1512																									
ZZZZZZ	1.00	1513																									
ZZZZZZ	1.00	1514																									
ZZZZZZ	1.00	1516																									
ZZZZZZ	1.00	1517																									
CCV	1.00	1518																X									
CCB	1.00	1519																X									
ZZZZZZ	1.00	1520																									
ZZZZZZ	1.00	1521																									
ZZZZZZ	1.00	1522																									
ZZZZZZ	1.00	1523																									
ZZZZZZ	1.00	1524																									
ZZZZZZ	1.00	1525																									
CCV	1.00	1526																X									
CCB	1.00	1527																X									
ZZZZZZ	5.00	1528																									
ZZZZZZ	5.00	1529																									
ZZZZZZ	5.00	1530																									
CCV	1.00	1531																X									
CCB	1.00	1532																X									
ZZZZZZ	1.00	1533																									
ZZZZZZ	1.00	1534																									
ZZZZZZ	1.00	1535																									

IDEM-OLQ

14

ANALYSIS RUN LOG

Lab Name: ARDL, Inc. Contract: 1263

Lab Code: ARDL Case No.: BAA2-003 SAS No.: _____ SDG No. LQ3286

Instrument ID Number: AA20 PLUS Method: CV

Start Date: 05/15/06 End Date: 05/15/06

EPA Sample No.	D/F	Time	%R	ANALYTES																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1536																									
ZZZZZZ	1.00	1537																									
ZZZZZZ	1.00	1538																									
ZZZZZZ	1.00	1539																									
ZZZZZZ	1.00	1540																									
ZZZZZZ	1.00	1541																									
ZZZZZZ	1.00	1542																									
CCV	1.00	1543																X									
CCB	1.00	1544																X									
LCSS	1.00	1545																X									
PBS	1.00	1546																X									
LQ3286	1.00	1547																X									
LQ3287	1.00	1548																X									
LQ3288	1.00	1549																X									
LQ3289	1.00	1550																X									
LQ3290	1.00	1551																X									
LQ3303	1.00	1552																X									
LQ3304	1.00	1553																X									
LQ3304S	1.00	1554																X									
CCV	1.00	1555																X									
CCB	1.00	1556																X									
LQ3304SD	1.00	1557																X									
CCV	1.00	1558																X									
CCB	1.00	1559																X									

RAW DATA

The Raw Data are included by Technique as Follows:

ICP DATA

COLD VAPOR DATA

OTHER INORGANIC DATA

CALCULATIONS:

ICP

Soil matrix:

(A x B x E)/(C x D) = Reported value in mg/kg
Where:
A = instrument readout in ppm
B = digestate volume in liters
C = weight of sample digested in kg
D = (% total solids)/100
E = dilution factor as required to bring readout into calibration range of the instrument

Water matrix:

(A x B x E x 1000)/(C) = Reported value in ug/L
Where:
A = instrument readout in ppm
B = digestate volume in liters
C = amount of sample digested in liters
E = dilution factor as required to bring readout into calibration range of the instrument

AA

Soil matrix:

(A x B x E)/(C x D) = Reported value in mg/kg
Where:
A = instrument readout in ppb*
B = digestate volume in liters
C = weight of sample digested in grams
D = (% total solids)/100
E = dilution factor as required to bring readout into calibration range of the instrument

Water matrix:

(A x B x E)/(C) = Reported value in ug/L
Where:
A = instrument readout in ppb*
B = digestate volume in liters
C = amount of sample digested in liters
E = dilution factor as required to bring readout into calibration range of the instrument

* Sodium and potassium on AA - instrument readout is in ppm; therefore, an additional factor of 1000 should be included in the calculation.

ICP DATA

P4197 1263
CY 523-06

ICP RUN SUMMARY

INSTRUMENT ID: Trace FILE NAME: T60518A RUN DATE: 5-18-06

RMA LOT DIG. BATCH	SAMPLES	REPORTABLE ELEMENTS
5110	12611-6	As, Ba, Cd, Cr, Ag, Pb, Se
5112	12631-7	As, Ba, Cd, Cr, Ag, Pb, Se
5113	12651-4	As, Ba, Cd, Cr, Ag, Pb, Se

BY SIGNING OR INITIALING BELOW THE ANALYST AND DATA REVIEWER ARE ATTESTING THAT (MARK ALL THAT APPLY):

- ✓ Calibration valid for reported elements.
- ✓ ICV/CCV valid for reported elements.
- ✓ ICB/CCB/Pblk valid for reported elements.
- ✓ LCS valid for reported elements.
- ✓ MS/MSD recovery acceptable for reported elements/samples unless noted above.
- ✓ ICSA/B evaluation acceptable for reported elements.

USE THE SPIKE BLANK SOLUTION FOR THE LCS FOR THE ELEMENTS LISTED BELOW IF ANALYZED

B MO SN SR TI SI ____ ____ ____ ____

ANALYZED BY: [illegible] DATE: 5-19-06

APPROVED BY: [illegible] DATE: 5/19/06

10046

AutoSampler Report Table: T0518 05/18/06 02:30:05 PM page 1

Table Name: T0518 Autosampler Type: TYPE TJA
Sample Positions: 207/246 QC Positions: 2/19 # Sets: 2
Rinse Station location is rack -1, pos. -1.

-- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	2	2
2	Sample (16mm)	Samples	9	1
3	Sample (13mm)	Samples	75	1
4	Sample (13mm)	Samples	75	1
5	Sample (16mm)	Samples	48	1

-- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		*FromMTD	35	2	1
2	Normal	No		*FromMTD	4	2	36

-- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor

No Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	CCB NB2531P20	-NA-	2	Blank
2	1	2	ICSAB NB2531P20	-NA-	2	QC Standard
3	1	3	CRI NB2531P20	-NA-	2	QC Standard
4	1	4	ICSA NB2531P20	-NA-	2	QC Standard
5	1	5	CCVAC NB2531P19	-NA-	2	QC Standard
6	1	6	ICB NB2531P20	-NA-	1	Blank
7	1	7	CCVAC NB2531P19	-NA-	2	QC Standard
8	1	8	ICVAC NB2531P21	-NA-	1	QC Standard
9	1	9	CCB NB2531P22	-NA-	2	Blank
10	1	10	CCVAC NB2531P19	-NA-	1	QC Standard
11	1	11	CCB NB2531P22	-NA-	1	Blank
12	1	12	ICPCAL2.0 NB2531P22	-NA-	1	Standard
13	1	13	ICPCAL1.1 NB2531P21	-NA-	1	Standard
14	1	14	ICPCAL1.2 NB2531P18	-NA-	1	Standard
15	1	15	ICPCAL4.2 NB2531P22	-NA-	1	Standard
(16...16	Not Used)					
17	1	17	ICP2-3.1 NB2531P18	-NA-	1	Standard
18	1	18	STD1-Blank NB2531P20	-NA-	1	Standard
(19...19	Not Used)					

ack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	001261-01C1	1	-NA-	Sample
2	1	2	001261-01K1	1	-NA-	Sample
3	1	3	001261-01B1	1	-NA-	Sample
4	1	4	001261-01	1	-NA-	Sample
5	1	5	001261-01MS	1	-NA-	Sample
6	1	6	001261-01MD	1	-NA-	Sample
7	1	7	001261-01L NB2429PS8	1	-NA-	Sample
8	1	8	001261-02	1	-NA-	Sample
9	1	9	001261-03	1	-NA-	Sample
10	1	10	001261-04	1	-NA-	Sample
11	1	11	001261-05	1	-NA-	Sample
12	1	12	001261-06	1	-NA-	Sample
13	2	1	001263-07C1	1	-NA-	Sample
14	2	2	001263-07K1	1	-NA-	Sample
15	2	3	001263-07B1	1	-NA-	Sample
16	2	4	001263-01	1	-NA-	Sample
17	2	5	001263-02	1	-NA-	Sample
18	2	6	001263-03	1	-NA-	Sample
19	2	7	001263-04	1	-NA-	Sample
20	2	8	001263-05	1	-NA-	Sample
21	2	9	001263-06	1	-NA-	Sample
22	2	10	001263-07	1	-NA-	Sample
23	2	11	001263-07MS	1	-NA-	Sample
24	2	12	001263-07MD	1	-NA-	Sample
25	3	1	001263-07L NB2429PS9	1	-NA-	Sample
26	3	2	001265-04C1	1	-NA-	Sample
27	3	3	001265-04K1	1	-NA-	Sample
28	3	4	001265-04B1	1	-NA-	Sample
29	3	5	001265-01	1	-NA-	Sample
30	3	6	001265-02	1	-NA-	Sample
31	3	7	001265-03	1	-NA-	Sample
32	3	8	001265-04	1	-NA-	Sample
33	3	9	001265-04MS	1	-NA-	Sample
34	3	10	001265-04MD	1	-NA-	Sample
35	3	11	001265-04L NB2429PS7	1	-NA-	Sample
36	3	12	RINSE 1	2	-NA-	Sample
37	4	1	RINSE 2	2	-NA-	Sample
38	4	2	RINSE 3	2	-NA-	Sample
39	4	3	RINSE 4	2	-NA-	Sample

(40...48 Not Used)

ack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type

(1...75 Not Used)

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	T60518A	TRACECLP	05/18/06	16:16		X	IR
2	ICP2-3.1	T60518A	TRACECLP	05/18/06	16:25		X	IR
3	ICPCAL4.2	T60518A	TRACECLP	05/18/06	16:33		X	IR
4	ICPCAL1.2	T60518A	TRACECLP	05/18/06	16:41		X	IR
5	ICPCAL1.1	T60518A	TRACECLP	05/18/06	16:48		X	IR
6	ICPCAL2.0	T60518A	TRACECLP	05/18/06	16:53		X	IR
7	ICVAC	T60518A	TRACECLP	05/18/06	16:59	DLR	Q	CONC
8	ICB	T60518A	TRACECLP	05/18/06	17:08	DLR	B	CONC
9	CRI	T60518A	TRACECLP	05/18/06	17:17	DLR	Q	CONC
10	ICSA	T60518A	TRACECLP	05/18/06	17:27	DLR	Q	CONC
11	ICSAB	T60518A	TRACECLP	05/18/06	17:36	DLR	Q	CONC
12	CCVAC	T60518A	TRACECLP	05/18/06	17:45	DLR	Q	CONC
13	CCB	T60518A	TRACECLP	05/18/06	17:54	DLR	B	CONC
14	001261-01C1	T60518A	TRACECLP	05/18/06	18:03	DLR	S	CONC
15	001261-01K1	T60518A	TRACECLP	05/18/06	18:12	DLR	S	CONC
16	001261-01B1	T60518A	TRACECLP	05/18/06	18:21	DLR	S	CONC
17	001261-01	T60518A	TRACECLP	05/18/06	18:30	DLR	S	CONC
18	001261-01MS	T60518A	TRACECLP	05/18/06	18:39	DLR	S	CONC
19	001261-01MD	T60518A	TRACECLP	05/18/06	18:48	DLR	S	CONC
20	001261-01L	T60518A	TRACECLP	05/18/06	18:57	DLR	S	CONC
21	001261-02	T60518A	TRACECLP	05/18/06	19:07	DLR	S	CONC
22	001261-03	T60518A	TRACECLP	05/18/06	19:16	DLR	S	CONC
23	001261-04	T60518A	TRACECLP	05/18/06	19:25	DLR	S	CONC
24	CCVAC	T60518A	TRACECLP	05/18/06	19:34	DLR	Q	CONC
25	CCB	T60518A	TRACECLP	05/18/06	19:43	DLR	B	CONC
26	001261-05	T60518A	TRACECLP	05/18/06	19:52	DLR	S	CONC
27	001261-06	T60518A	TRACECLP	05/18/06	20:01	DLR	S	CONC
28	001263-07C1	T60518A	TRACECLP	05/18/06	20:10	DLR	S	CONC
29	001263-07K1	T60518A	TRACECLP	05/18/06	20:19	DLR	S	CONC
30	001263-07B1	T60518A	TRACECLP	05/18/06	20:28	DLR	S	CONC
31	001263-01	T60518A	TRACECLP	05/18/06	20:37	DLR	S	CONC
32	001263-02	T60518A	TRACECLP	05/18/06	20:46	DLR	S	CONC
33	001263-03	T60518A	TRACECLP	05/18/06	20:56	DLR	S	CONC
34	001263-04	T60518A	TRACECLP	05/18/06	21:05	DLR	S	CONC
35	CCVAC	T60518A	TRACECLP	05/18/06	21:14	DLR	Q	CONC
36	CCB	T60518A	TRACECLP	05/18/06	21:23	DLR	B	CONC
37	001263-05	T60518A	TRACECLP	05/18/06	21:32	DLR	S	CONC
38	001263-06	T60518A	TRACECLP	05/18/06	21:41	DLR	S	CONC
39	001263-07	T60518A	TRACECLP	05/18/06	21:50	DLR	S	CONC
40	001263-07MS	T60518A	TRACECLP	05/18/06	21:59	DLR	S	CONC
41	001263-07MD	T60518A	TRACECLP	05/18/06	22:08	DLR	S	CONC
42	001263-07L	T60518A	TRACECLP	05/18/06	22:17	DLR	S	CONC
43	001265-04C1	T60518A	TRACECLP	05/18/06	22:26	DLR	S	CONC
44	001265-04K1	T60518A	TRACECLP	05/18/06	22:35	DLR	S	CONC
45	001265-04B1	T60518A	TRACECLP	05/18/06	22:44	DLR	S	CONC
46	001265-01	T60518A	TRACECLP	05/18/06	22:54	DLR	S	CONC
47	CCVAC	T60518A	TRACECLP	05/18/06	23:03	DLR	Q	CONC
48	CCB	T60518A	TRACECLP	05/18/06	23:12	DLR	B	CONC
49	001265-02	T60518A	TRACECLP	05/18/06	23:21	DLR	S	CONC
50	001265-03	T60518A	TRACECLP	05/18/06	23:30	DLR	S	CONC
51	001265-04	T60518A	TRACECLP	05/18/06	23:39	DLR	S	CONC
52	001265-04MS	T60518A	TRACECLP	05/18/06	23:48	DLR	S	CONC
53	001265-04MD	T60518A	TRACECLP	05/18/06	23:57	DLR	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	001265-04L	T60518A	TRACECLP	05/19/06	00:06	DLR	S	CONC
55	CRI	T60518A	TRACECLP	05/19/06	00:15	DLR	Q	CONC
56	ICSA	T60518A	TRACECLP	05/19/06	00:24	DLR	Q	CONC
57	ICSAB	T60518A	TRACECLP	05/19/06	00:33	DLR	Q	CONC
58	CCVAC	T60518A	TRACECLP	05/19/06	00:43	DLR	Q	CONC
59	CCB	T60518A	TRACECLP	05/19/06	00:52	DLR	B	CONC

#	Sample Name	AL	SB	AS	BA	BE	B
1	STD1-Blank	.26202	-.02898	-.0493	-.02132	.00966	-.02898
2	ICP2-3.1	40.9983			1230.37	40.9265	
3	ICPCAL4.2			67.389			
4	ICPCAL1.2						
5	ICPCAL1.1						
6	ICPCAL2.0						
7	ICVAC	9.5213	.00115	4768.0	9.8193	.91600	.00409
8	ICB	-.01491	.00248	2.2479	.00053	.00008	.00147
9	CRI	-.00408	.11653	23.720	.00060	.00951	.00592
10	ICSA	452.75	.00079	-.38875	.00064	-.00069	-.00512
11	ICSAB	456.57	.88383	927.49	.48211	.43545	.86447
12	CCVAC	5.0793	-.00180	2507.1	5.3556	.48156	.00595
13	CCB	.03097	.00122	2.0052	.00137	.00046	.00241
14	001261-01C1	68.420	.36161	912.66	1.5872	.46666	.59916
15	001261-01K1	1.7780	.41340	1759.7	2.0123	.04353	L.00615
16	001261-01B1	-.02537	-.00135	-.25538	.00037	-.00015	.00337
17	001261-01	11.585	-.00027	12.582	.03384	-.00097	.01732
18	001261-01MS	12.474	.30821	1770.4	1.9475	.04258	.01550
19	001261-01MD	17.267	.30002	1745.2	1.9275	.04145	.01829
20	001261-01L	2.4573	.00046	2.2068	.00757	-.00016	.00591
21	001261-02	79.100	.00240	65.695	.36609	.00111	.08070
22	001261-03	34.727	.00051	25.595	.27996	-.00062	.03401
23	001261-04	14.402	.00329	23.998	.05006	-.00065	.02320
24	CCVAC	5.0343	.00292	2493.3	5.4165	.48127	.00765
25	CCB	.03328	.00476	3.7108	.00152	.00039	.00344
26	001261-05	31.095	.00627	21.945	.22342	-.00019	.01270
27	001261-06	18.618	.01009	87.901	.18441	.00017	.00945
28	001263-07C1	74.558	.33968	1377.6	2.3008	.38845	.82198
29	001263-07K1	1.7354	.40071	1717.4	1.8211	.04173	L.00641
30	001263-07B1	-.00284	.00269	-.72152	.00074	.00008	.00638
31	001263-01	33.277	.00685	23.475	.17293	-.00118	.18351
32	001263-02	13.536	-.00048	31.266	.05233	-.00091	.02709
33	001263-03	13.093	.00106	15.932	.05031	-.00048	.05396
34	001263-04	44.747	.01073	29.981	.34177	-.00136	.45395
35	CCVAC	5.1349	-.00417	2578.3	5.4397	.49861	.00613
36	CCB	.02581	-.00159	-.52050	.00091	-.00017	.00097
37	001263-05	28.447	.00807	22.477	.45500	-.00018	.01500
38	001263-06	35.920	.00269	15.166	.18573	-.00163	.01991
39	001263-07	25.983	.00382	19.359	.17054	-.00051	.14397
40	001263-07MS	31.322	.20885	1890.2	2.1585	.04655	.02180
41	001263-07MD	26.281	.25958	1899.9	2.1511	.04670	.03641
42	001263-07L	5.5418	.00364	7.8001	.03679	.00010	.03493
43	001265-04C1	74.195	.77030	1489.2	2.4295	.41171	.87368
44	001265-04K1	1.7645	.41009	1717.6	1.9508	.04337	L.00549
45	001265-04B1	.01130	.00190	.46417	.00196	.00008	.00510
46	001265-01	37.399	.00401	18.897	.23924	-.00050	.02164
47	CCVAC	5.2084	-.00094	2605.8	5.3862	.50439	.00670
48	CCB	.01585	.00017	.24849	.00056	.00014	.00248
49	001265-02	35.942	-.00180	18.514	.14220	-.00088	.01832
50	001265-03	34.177	.00545	19.513	.25083	-.00038	.01771
51	001265-04	49.643	.00483	50.580	.19652	-.00079	.02737
52	001265-04MS	61.142	.15262	1914.7	2.1945	.04635	.03106
53	001265-04MD	61.139	.15123	1903.2	2.1672	.04623	.03235

#	Sample Name	AL	SB	AS	BA	BE	B
54	001265-04L	10.407	.00439	14.218	.04201	.00017	.00969
55	CRI	.00557	.12447	21.877	.00040	.01037	.00615
56	ICSA	475.05	.00179	5.0054	.00065	-.00069	-.00079
57	ICSAB	471.41	.91385	967.82	.48636	.45816	.91774
58	CCVAC	5.1996	-.00561	2633.6	5.3334	.51068	.00606
59	CCB	.04089	.00270	2.4983	.00060	.00024	.00216

#	Sample Name	CD	CA	CR	CO	CU	FE
1	STD1-Blank	-.01066	.03998	.00466	-.03831	.27819	-.00299
2	ICP2-3.1			28.8622	132.267	65.99	8.1266
3	ICPCAL4.2	260.869					
4	ICPCAL1.2		290.501				
5	ICPCAL1.1						
6	ICPCAL2.0						
7	ICVAC	941.23	20.173	1.8754	4.5307	1.8664	9.0156
8	ICB	-.09358	-.00171	-.00004	.00074	.00049	.01133
9	CRI	9.7502	.00591	.01963	.09727	.05149	.04070
10	ICSA	2.5001	415.36	.00069	.00394	.00277	154.35
11	ICSAB	831.25	418.64	.43482	.40478	.46300	156.78
12	CCVAC	487.55	10.557	.98312	2.4100	.97241	4.8025
13	CCB	.36736	.03935	.00085	.00134	.00212	.03411
14	001261-01C1	485.14	37.687	.62560	.70191	.80529	87.750
15	001261-01K1	43.442	.29954	.18163	.44779	.23164	H2.8818
16	001261-01B1	.03962	.08908	.00366	-.00152	.00089	.05798
17	001261-01	3.7428	H392.23	.04274	.01721	.02952	32.546
18	001261-01MS	40.925	H376.43	.21607	.42244	.24754	30.503
19	001261-01MD	40.256	H357.69	.22790	.41853	.24809	37.207
20	001261-01L	.84709	88.359	.00816	.00344	.00643	7.0053
21	001261-02	1.4798	H310.81	.13224	.06930	.09089	134.45
22	001261-03	1.1606	229.90	.07014	.02913	.09363	75.037
23	001261-04	.76906	H433.58	.05000	.02185	.03775	41.595
24	CCVAC	483.44	10.402	.98301	2.4024	.97746	4.7948
25	CCB	.32285	.00235	.00122	.00219	.00316	.03193
26	001261-05	.74286	5.4982	.04617	.02160	.03582	42.792
27	001261-06	.72421	11.539	.04894	.03065	.07899	57.364
28	001263-07C1	609.20	36.159	.81613	.59927	.67479	100.12
29	001263-07K1	42.942	.47226	.16779	.41695	.21002	1.0175
30	001263-07B1	.22399	H.36214	.00398	-.00054	.00078	H.10444
31	001263-01	.58661	6.8203	.08854	.06022	.07014	55.464
32	001263-02	.45616	H448.23	.04452	.02571	.04942	39.721
33	001263-03	.57246	H372.69	.03756	.02618	.03616	36.000
34	001263-04	.68671	7.5509	.12288	.12274	.13514	79.956
35	CCVAC	506.34	10.875	1.0184	2.4881	1.0000	4.9152
36	CCB	.00405	.00011	-.00039	.00134	.00072	-.00985
37	001263-05	.95963	6.4428	.05770	.03744	.06750	46.212
38	001263-06	.06238	7.5464	.06472	.02423	.04346	40.118
39	001263-07	.19521	24.526	.06223	.04079	.06475	40.916
40	001263-07MS	46.808	15.682	.23700	.48658	.27888	35.266
41	001263-07MD	46.505	19.343	.24015	.48541	.28198	33.500
42	001263-07L	.31258	5.3545	.01419	.00834	.01585	8.8064
43	001265-04C1	646.78	39.008	.86268	.63757	.70006	114.50
44	001265-04K1	43.162	.41166	.18047	.43592	.23233	1.0914

#	Sample Name	CD	CA	CR	CO	CU	FE
45	001265-04B1	.07662	H.16606	.00398	.00031	.00169	H.14579
46	001265-01	.14036	13.372	.06294	.03055	.03858	51.376
47	CCVAC	515.79	Q11.111	1.0299	2.5106	1.0084	4.9688
48	CCB	.19940	-.00452	.00027	.00100	.00131	.01976
49	001265-02	-.06210	4.8156	.05691	.02668	.03061	53.866
50	001265-03	.14683	6.2378	.05943	.02884	.03350	49.681
51	001265-04	.53485	139.29	.10477	.04166	.09112	92.223
52	001265-04MS	46.025	66.504	.31004	.49101	.32939	98.288
53	001265-04MD	45.597	65.958	.27892	.49094	.32297	95.456
54	001265-04L	.25771	30.242	.02332	.00911	.02099	19.861
55	CRI	10.907	.00694	.02188	.10729	.05539	.02838
56	ICSA	1.3140	459.08	.00043	.00338	.00346	168.09
57	ICSAB	887.76	444.29	.45756	.42108	.48396	164.07
58	CCVAC	526.88	Q11.264	1.0428	2.5346	1.0200	5.0174
59	CCB	.10017	.01073	.00073	.00101	.00154	.02273

#	Sample Name	MG	MN	NI	K	AG	NA
1	STD1-Blank	-.01216	.00633	-.02465	.03031	-.04431	-.10228
2	ICP2-3.1		84.3168	196.464		28.5677	
3	ICPCAL4.2						
4	ICPCAL1.2	109.327					
5	ICPCAL1.1				34.7346		3.34965
6	ICPCAL2.0						
7	ICVAC	19.593	.93628	Q4.4382	19.814	.90897	19.746
8	ICB	.00929	.00005	.00032	.03840	.00188	H.40307
9	CRI	.00606	.02888	.07645	.09672	.02203	.74784
10	ICSA	463.47	-.00523	.00256	.12408	.00559	.90354
11	ICSAB	471.65	.42838	Q.76270	.02904	.92693	1.1568
12	CCVAC	10.413	.49445	2.3155	9.6182	.47891	9.8032
13	CCB	.04280	.00009	.00078	.07848	.00342	H.72628
14	001261-01C1	26.267	4.2530	.47364	19.128	.99133	-.43535
15	001261-01K1	.01877	.45798	.42894	.17808	.05027	1.7834
16	001261-01B1	.00319	.00077	.00245	-.02976	-.00130	.02931
17	001261-01	96.334	.90865	.04134	1.6347	.00107	.19351
18	001261-01MS	92.593	1.3420	.42206	1.2792	.04700	.86685
19	001261-01MD	85.639	1.3100	.42189	1.3767	.04454	.16433
20	001261-01L	20.372	.19508	.01011	.27576	-.00066	-.13724
21	001261-02	128.58	2.4664	.16481	19.855	-.00077	-.05690
22	001261-03	110.67	4.0073	.06641	4.5406	.00326	.56174
23	001261-04	110.02	1.2027	.04416	1.9642	.00085	.41450
24	CCVAC	10.287	.49378	2.3078	9.8423	.48273	10.415
25	CCB	.00562	.00023	.00214	H.11208	.00405	H.99081
26	001261-05	6.4946	1.4889	.04023	1.7103	.00273	.46425
27	001261-06	7.3134	1.7096	.06905	1.4715	.00111	.04015
28	001263-07C1	25.194	4.6969	.62148	29.863	1.6954	7.5952
29	001263-07K1	.01948	.42019	.40576	.13728	.04644	.96634
30	001263-07B1	.01713	.00080	.00272	.02904	.00025	H.45888
31	001263-01	11.933	1.4803	.15050	2.3276	.00125	-.38085
32	001263-02	114.37	1.3480	.05402	2.0897	.00273	.63665
33	001263-03	94.646	1.1682	.04849	1.7955	.00214	.66484
34	001263-04	19.504	2.4428	.22978	2.4202	.00185	-.29233
35	CCVAC	10.766	.50929	2.4244	10.047	.49654	10.842

#	Sample Name	MG	MN	NI	K	AG	NA
36	CCB	-.00084	-.00013	.00039	.06432	.00270	H.55184
37	001263-05	6.5096	.57911	.04978	1.5802	.00041	-.50522
38	001263-06	8.4420	.41589	.04654	2.5289	.00241	-.50999
39	001263-07	9.2128	.66596	.08296	2.0506	.00287	-.16119
40	001263-07MS	7.7395	.85987	.50347	2.1370	.05087	-.20322
41	001263-07MD	8.8574	.91162	.51310	1.7083	.05024	.17208
42	001263-07L	2.0357	.14341	.01957	.40824	.00013	-.26323
43	001265-04C1	26.905	4.9899	.67681	32.304	1.7892	7.3770
44	001265-04K1	.02388	.45180	.43240	.00096	.04381	.23502
45	001265-04B1	.01119	.00112	.00303	.06024	.00142	H.53554
46	001265-01	11.008	1.5896	.05245	3.0812	.00305	.25553
47	CCVAC	10.963	.51395	2.4816	10.153	.50099	Q11.369
48	CCB	.00182	-.00001	.00081	.05472	.00256	H.45591
49	001265-02	10.498	1.0603	.05823	2.2414	.00141	-.20548
50	001265-03	8.8170	1.6511	.05241	2.0288	.00183	-.18477
51	001265-04	94.529	2.9948	.10421	5.2402	.00168	-.08806
52	001265-04MS	51.259	4.0966	.56148	5.5894	.04772	-.59677
53	001265-04MD	51.860	4.0884	.55143	5.0833	.04872	-.19260
54	001265-04L	20.011	.64626	.02379	1.0027	.00060	-.15029
55	CRI	.00194	.03152	.08639	.04344	.02249	.39154
56	ICSA	520.61	-.00535	.00279	.10392	.00415	.69365
57	ICSAB	502.33	.44765	.82414	.00672	.96837	1.0194
58	CCVAC	Q11.172	.51913	2.5527	10.122	.50456	11.011
59	CCB	.00951	.00003	.00031	.04920	.00239	H.40291

#	Sample Name	TL	V	ZN1	ZN2	2203/1	2203/2
1	STD1-Blank	-.17991	-.01965	.0141	.02311	.06263	.07862
2	ICP2-3.1		55.4206	57.6049			
3	ICPCAL4.2	80.3805				214.549	144.11
4	ICPCAL1.2						
5	ICPCAL1.1						
6	ICPCAL2.0				17.3561		
7	ICVAC	4800.6	4.7521	.93351	1.0057	4687.8	4672.8
8	ICB	4.0559	.00141	-.00049	-.00033	4.4342	-1.5591
9	CRI	27.130	.09891	.03674	.03982	4.7748	6.7199
10	ICSA	14.054	-.00091	-.00508	-.00273	50.882	-24.575
11	ICSAB	891.06	.44502	.80227	.94396	872.33	826.65
12	CCVAC	2484.7	2.4951	.49508	.53072	2478.8	2451.5
13	CCB	3.5004	.00255	-.00025	-.00066	6.5037	-.41391
14	001261-01C1	1655.2	1.0341	2.3373	2.5264	1118.7	1112.1
15	001261-01K1	1777.0	.45792	.54330	.58282	466.33	436.79
16	001261-01B1	-1.6365	-.00102	H.08194	H.08958	-.89560	6.1914
17	001261-01	-1.6578	.04979	.22633	.25697	114.78	111.70
18	001261-01MS	1701.1	.49564	.60943	.68899	468.95	456.93
19	001261-01MD	1680.2	.50429	.55261	.63050	460.86	459.98
20	001261-01L	.72892	.00981	.05044	.05624	28.320	24.713
21	001261-02	-.43612	.14289	.37558	.42380	110.47	101.09
22	001261-03	.21344	.10057	.39002	.43961	265.00	230.63
23	001261-04	-2.4527	.05155	.17752	.20583	27.982	20.429
24	CCVAC	2474.0	2.5016	.49070	.52993	2462.8	2447.5
25	CCB	6.6862	.00324	.00325	.00289	4.2421	-.70805
26	001261-05	-1.1727	.07785	.24187	.26233	81.586	65.101

#	Sample Name	TL	V	ZN1	ZN2	2203/1	2203/2
27	001261-06	-4.0557	.05325	.21112	.23140	82.949	87.003
28	001263-07C1	1046.3	.74578	2.7983	3.0027	910.35	872.00
29	001263-07K1	1680.4	.41672	.47958	.51546	452.06	432.16
30	001263-07B1	-1.4477	.00000	H.06222	H.06809	5.9204	.81920
31	001263-01	.44463	.08618	.15931	.16920	40.757	34.503
32	001263-02	4.1899	.05543	.15571	.17613	40.696	25.742
33	001263-03	2.1651	.05495	.11226	.12768	29.653	18.660
34	001263-04	-1.8601	.17958	.41347	.44308	43.560	43.330
35	CCVAC	2592.8	2.5809	.51494	.54872	2570.4	2518.9
36	CCB	7.6971	.00212	.00270	.00251	9.9861	-.55910
37	001263-05	-4.4890	.08920	.30410	.32655	238.98	247.34
38	001263-06	1.1107	.09820	.18341	.19469	57.094	42.167
39	001263-07	-1.1760	.09702	.19540	.21182	51.649	37.634
40	001263-07MS	1917.4	.57349	.61943	.66395	515.25	496.26
41	001263-07MD	1906.8	.56269	.66864	.71499	518.16	503.19
42	001263-07L	.75263	.02095	.05409	.05846	10.830	6.8259
43	001265-04C1	1098.2	.79457	2.9704	3.1743	957.23	929.56
44	001265-04K1	1760.7	.45226	.47069	.50982	438.96	443.18
45	001265-04B1	3.5805	.00132	H.02752	H.02932	4.5125	-.01672
46	001265-01	2.8315	.09015	.17299	.18488	46.693	37.365
47	CCVAC	2640.6	2.6039	.53944	Q.57448	2591.4	2535.2
48	CCB	4.0568	.00168	.00041	.00018	10.012	-4.4023
49	001265-02	-.00894	.09887	.15137	.16125	45.175	31.206
50	001265-03	-1.8964	.08422	.17334	.18392	52.194	43.673
51	001265-04	-.18600	.12027	.26352	.28648	72.869	60.102
52	001265-04MS	1881.7	.59076	.71133	.77189	510.56	507.61
53	001265-04MD	1895.7	.59620	.72479	.78123	517.64	501.39
54	001265-04L	.33093	.02564	.06502	.06919	11.750	15.858
55	CRI	26.256	.10641	.04287	.04501	9.6131	6.6560
56	ICSA	11.976	.00008	-.00262	.00071	56.519	-25.462
57	ICSAB	946.16	.46884	.85067	.99381	917.98	860.45
58	CCVAC	2683.4	2.6314	.53083	Q.56307	2612.9	2573.7
59	CCB	1.8650	.00168	.00004	-.00058	5.7029	-1.9035

#	Sample Name	1960/1	1960/2	PB	SE
1	STD1-Blank	.0653	.02731		
2	ICP2-3.1				
3	ICPCAL4.2	67.8854	30.7679		
4	ICPCAL1.2				
5	ICPCAL1.1				
6	ICPCAL2.0				
7	ICVAC	4784.9	4817.2	4677.8	4806.4
8	ICB	6.7672	-3.5727	.43860	-.11810
9	CRI	2.8485	12.288	6.0715	9.1494
10	ICSA	-1.6115	-14.090	.57711	-9.9228
11	ICSAB	925.50	921.98	841.88	923.16
12	CCVAC	2571.1	2551.2	2460.6	2557.8
13	CCB	-3.6611	.47232	1.8919	-.89748
14	001261-01C1	980.23	972.17	1114.3	974.86
15	001261-01K1	1726.6	1712.6	446.64	1717.3
16	001261-01B1	-11.237	3.2716	3.8291	-1.5567
17	001261-01	-1.1170	5.7225	112.72	3.4507

#	Sample Name	1960/1	1960/2	PB	SE
18	001261-01MS	1726.7	1711.8	460.93	1716.8
19	001261-01MD	1712.8	1703.0	460.27	1706.3
20	001261-01L	3.2465	-2.1404	25.916	-.33674
21	001261-02	6.6152	-4.2095	104.22	-.59329
22	001261-03	10.722	-5.9428	242.09	-.38004
23	001261-04	7.0888	1.6362	22.947	3.4617
24	CCVAC	2537.3	2534.5	2452.6	2535.4
25	CCB	-5.7738	3.3435	.94199	.31240
26	001261-05	-3.5454	1.8447	70.596	.05605
27	001261-06	-13.597	9.9801	85.652	2.1291
28	001263-07C1	1205.3	1197.4	884.78	1200.0
29	001263-07K1	1880.5	1811.0	438.79	1834.2
30	001263-07B1	1.2774	-1.3987	2.5196	-.49865
31	001263-01	2.4005	2.2122	36.588	2.2830
32	001263-02	5.5932	1.8947	30.727	3.1355
33	001263-03	5.4944	-2.7530	22.324	.00412
34	001263-04	-13.637	8.1361	43.407	.88655
35	CCVAC	2644.5	2622.3	2536.1	2629.7
36	CCB	1.2890	-6.4249	2.9559	-3.8456
37	001263-05	-10.151	10.952	244.55	3.9257
38	001263-06	-3.6426	-.79327	47.143	-1.7351
39	001263-07	7.1672	-3.6102	42.305	-.00980
40	001263-07MS	1860.3	1872.8	502.59	1868.7
41	001263-07MD	1871.7	1884.9	508.18	1880.5
42	001263-07L	3.0400	-1.0348	8.1607	.33144
43	001265-04C1	1321.3	1317.2	938.78	1318.6
44	001265-04K1	1658.6	1680.6	441.77	1673.3
45	001265-04B1	.99257	-2.8760	1.4930	-1.5785
46	001265-01	-9.4484	1.6678	40.474	-2.0296
47	CCVAC	2681.3	2640.3	2553.9	2654.0
48	CCB	-1.7939	4.5586	.40239	2.4491
49	001265-02	-.37029	1.3573	35.862	.78942
50	001265-03	-4.5760	.54611	46.513	-1.1532
51	001265-04	-1.5952	-1.5567	64.358	-1.5615
52	001265-04MS	1867.1	1879.6	508.59	1875.4
53	001265-04MD	1834.7	1856.8	506.81	1849.4
54	001265-04L	-4.0946	1.3726	14.489	-.44179
55	CRI	5.2557	9.7367	7.6417	8.2511
56	ICSA	-.01032	-11.867	1.8649	-7.9074
57	ICSAB	974.26	960.38	879.63	965.02
58	CCVAC	2710.8	2699.1	2586.8	2703.0
59	CCB	-4.7667	1.3624	.63193	-.67259

Standardization Rpt. SO 05/18/06 04:25:50 PM page 1

Method: TRACECLP Standard: STD1-Blank
Run Time: 05/18/06 16:16:46

Elem	AL	SB	AS	BA	BE	B	CD
Avge	.26202	-.02899	-.04931	-.02132	.00966	-.02899	-.01066
#1	.25324	-.07496	-.02099	-.06597	.00300	-.08596	-.03698
#2	.26750	.01599	-.05397	.00000	.02599	.00800	.01899
#3	.26532	-.02799	-.07296	.00200	.00000	-.00900	-.01399

Elem	CA	CR	CO	CU	FE	MG	MN
Avge	.03998	.00466	-.03831	.27819	-.00300	-.01216	.00633
#1	.01899	.00200	-.11094	.25387	-.00100	-.00850	.00700
#2	.05297	.01799	-.00500	.30385	.00500	-.01249	.00700
#3	.04798	-.00600	.00100	.27686	-.01299	-.01549	.00500

Elem	NI	K	AG	NA	TL	V	ZN1
Avge	-.02465	.03032	-.04431	-.10228	-.17991	-.01966	.01410
#1	-.02299	-.14493	-.10895	-.24388	-.30085	-.05497	.00410
#2	-.01799	.13493	-.01000	-.02799	-.11794	-.00400	.02119
#3	-.03298	.10095	-.01399	-.03498	-.12094	.00000	.01702

Elem	ZN2	2203/1	2203/2	1960/1	1960/2
Avge	.02311	.06264	.07863	.06530	.02732
#1	.01568	-1.2954	.49775	-.09695	.04998
#2	.02511	.62169	-.05197	.08096	.01000
#3	.02855	.86157	-.20990	.21189	.02199

D.L. Kohl

Standardization Rpt. S 05/18/06 04:33:24 PM page 1

Method: TRACECLP Standard: ICP2-3.1
Run Time: 05/18/06 16:25:54

Elem	AL	BA	BE	CR	CO	CU	FE
Avge	40.998	1230.4	40.927	28.862	132.27	65.990	8.1266
#1	40.896	1221.7	40.882	28.859	132.16	66.032	8.0920
#2	40.955	1234.1	40.683	28.660	131.58	65.751	8.0800
#3	41.144	1235.3	41.215	29.068	133.06	66.187	8.2079

Elem	MN	NI	AG	V	ZN1
Avge	84.317	196.46	28.568	55.421	57.605
#1	84.293	197.06	28.583	55.419	57.596
#2	83.911	195.10	28.432	55.172	57.191
#3	84.747	197.24	28.689	55.670	58.028

Standardization Rpt. 5 05/18/06 04:41:45 PM page 1

Method: TRACECLP Standard: ICPCAL4.2
Run Time: 05/18/06 16:33:29

Elem	AS	CD	TL	2203/1	2203/2	1960/1	1960/2
Avge	67.389	260.87	80.380	214.55	144.11	67.885	30.768
#1	68.261	264.33	81.318	217.20	145.10	68.799	31.216
#2	67.220	260.79	80.037	214.90	144.75	68.186	30.644
#3	66.686	257.49	79.786	211.55	142.48	66.672	30.444

Method: TRACECLP Standard: ICPCAL1.2
Run Time: 05/18/06 16:41:49

Elem	CA	MG
Avge	290.50	109.33
#1	289.36	108.57
#2	290.72	109.49
#3	291.42	109.92

D L Kolb

ethod: TRACECLP Standard: ICPCAL1.1
un Time: 05/18/06 16:48:35

Elem	K	NA
Avge	34.735	3.3497
#1	34.524	3.3303
#2	34.744	3.3423
#3	34.937	3.3763

Method: TRACECLP Standard: ICPCAL2.0
Run Time: 05/18/06 16:53:48

Elem	ZN2
Avge	17.356
#1	17.368
#2	17.387
#3	17.313

Standardization Report 05/18/06 04:59:44 PM page 1

Method: TRACECLP Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	ICP2-3.1	STD1-Blank	.494274	-.129510	05/18/06 04:53:48
B	206.838	ICPCAL5.2	STD1-Blank	.076652	.002222	05/18/06 04:53:48
AS	189.042	ICPCAL4.2	STD1-Blank	74.1419	3.65584	05/18/06 04:53:48
BA	493.409	ICP2-3.1	STD1-Blank	.016255	.000347	05/18/06 04:53:48
E	313.042	ICP2-3.1	STD1-Blank	.012220	-.000118	05/18/06 04:53:48
	249.678	ICPCAL5.2	STD1-Blank	.033390	.000968	05/18/06 04:53:48
CD	226.502	ICPCAL4.2	STD1-Blank	9.58296	.102167	05/18/06 04:53:48
A	317.933	ICPCAL1.2	STD1-Blank	.172140	-.006882	05/18/06 04:53:48
R	267.716	ICP2-3.1	STD1-Blank	.069183	-.000323	05/18/06 04:53:48
CO	228.616	ICP2-3.1	STD1-Blank	.037792	.001448	05/18/06 04:53:48
CU	324.753	ICP2-3.1	STD1-Blank	.038045	-.010584	05/18/06 04:53:48
E	271.441	ICP2-3.1	STD1-Blank	1.26918	.003806	05/18/06 04:53:48
MG	279.078	ICPCAL1.2	STD1-Blank	.457294	.005561	05/18/06 04:53:48
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
E	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
N	257.610	ICP2-3.1	STD1-Blank	.035585	-.000225	05/18/06 04:53:48
NI	231.604	ICP2-3.1	STD1-Blank	.040715	.001004	05/18/06 04:53:48
	766.491	ICPCAL1.1	STD1-Blank	.720371	-.021840	05/18/06 04:53:48
G	328.068	ICP2-3.1	STD1-Blank	.069895	.003097	05/18/06 04:53:48
NA	330.232	ICPCAL1.1	STD1-Blank	7.24230	.740759	05/18/06 04:53:48
TL	190.864	ICPCAL4.2	STD1-Blank	62.0652	11.1662	05/18/06 04:53:48
	292.402	ICP2-3.1	STD1-Blank	.090029	.001770	05/18/06 04:53:48
ZN1	206.200	ICP2-3.1	STD1-Blank	.068814	-.000971	05/18/06 04:53:48
ZN2	213.856	ICPCAL2.0	STD1-Blank	.115387	-.002667	05/18/06 04:53:48
203/1	220.351	ICPCAL4.2	STD1-Blank	11.6558	-.730063	05/18/06 04:53:48
203/2	220.352	ICPCAL4.2	STD1-Blank	17.3573	-1.36476	05/18/06 04:53:48
1960/1	196.021	ICPCAL4.2	STD1-Blank	36.8622	-2.40713	05/18/06 04:53:48
1960/2	196.022	ICPCAL4.2	STD1-Blank	81.3256	-2.22179	05/18/06 04:53:48

Analysis Report QC Standard 05/18/06 05:08:49 PM page 1

Method: TRACECLP Sample Name: ICVAC Operator: DLR
Run Time: 05/18/06 16:59:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	9.5213	.00116	4768.0	9.8193	.91601	.00409	941.23
#1	9.5986	.00207	4830.9	9.8651	.92633	.00468	955.70
#2	9.4984	.00586	4746.9	9.8046	.91220	.00417	935.58
#3	9.4670	-.00446	4726.2	9.7883	.90949	.00343	932.41
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	10.000		5000.0	10.000	1.0000		1000.0
Range	1.0440		522.00	1.0440	.10440		104.40

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	20.173	1.8754	4.5307	1.8664	9.0156	19.593	4677.8
#1	20.411	1.8971	4.5822	1.8811	9.1190	19.868	4710.0
#2	20.085	1.8691	4.5120	1.8618	8.9985	19.501	4665.4
#3	20.022	1.8601	4.4980	1.8564	Q8.9293	19.410	4657.9
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.000	2.0000	5.0000	2.0000	10.000	20.000	5000.0
Range	2.0880	.20880	.52200	.20880	1.0440	2.0880	522.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	4806.4	.93629	Q4.4382	19.814	.90897	19.746	4800.6
#1	4839.9	.94608	4.4926	19.871	.91589	19.696	4848.8
#2	4800.3	.93349	Q4.4145	19.807	.90520	19.875	4796.5
#3	4779.1	.92930	Q4.4074	19.765	.90583	19.666	4756.5
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	5000.0	1.0000	5.0000	20.000	1.0000	20.000	5000.0
Range	522.00	.10440	.52200	2.0880	.10440	2.0880	522.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	4.7521	.93352	1.0057	4687.8	4672.8	4784.9	4817.2
#1	4.7978	.94600	1.0163	4715.5	4707.2	4813.4	4853.1
#2	4.7341	.92872	1.0008	4659.4	4668.5	4759.7	4820.6
#3	4.7244	.92584	.99999	4688.7	4642.5	4781.6	4777.8
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	5.0000	1.0000	1.0000				
Range	.52200	.10440	.10440				

Analysis Report Blank Sample 05/18/06 05:17:55 PM page 1

Method: TRACECLP Sample Name: ICB Operator: DLR
Run Time: 05/18/06 17:08:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	-.01492	.00248	2.2479	.00054	.00009	.00147	-.09359
#1	-.01248	.00199	2.9891	.00014	.00003	.00180	-.30046
#2	-.01798	.00184	2.7702	.00108	.00030	.00187	.11934
#3	-.01430	.00362	.98437	.00040	-.00006	.00074	-.09964
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.00172	-.00005	.00074	.00049	.01133	.00930	.43861
#1	-.00430	.00002	-.00135	.00037	.00390	.01059	-.04355
#2	.00173	.00079	.00288	.00063	.02255	.00236	1.8494
#3	-.00258	-.00094	.00069	.00048	.00755	.01493	-.48998
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.11810	.00006	.00033	.03840	.00189	H.40307	4.0559
#1	-.96851	.00006	.00084	-.05424	-.00165	L-.44618	-.87152
#2	-2.4549	.00009	.00068	H.16536	.00589	H1.4718	H12.975
#3	3.0691	.00002	-.00054	.00408	.00142	H.18361	.06473
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00141	-.00050	-.00033	4.4342	-1.5591	6.7672	-3.5727
#1	-.00138	-.00079	-.00030	-8.8785	4.3738	2.1618	-2.5456
#2	.00447	.00021	-.00098	18.104	-6.2779	2.5669	-4.9778
#3	.00114	-.00091	.00028	4.0769	-2.7734	15.573	-3.1946
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

Analysis Report QC Standard 05/18/06 05:27:01 PM page 1

Method: TRACECLP Sample Name: CRI Operator: DLR
Run Time: 05/18/06 17:17:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	-.00409	.11654	23.720	.00060	.00952	.00592	9.7502
#1	-.00938	.11518	21.524	.00049	.00954	.00580	9.5134
#2	.00224	.11741	23.003	.00083	.00938	.00663	9.7254
#3	-.00512	.11702	26.635	.00048	.00963	.00534	10.012
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass
Value		.12000	20.000		.01000		10.000
Range		.06000	10.000		.00500		5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.00592	.01964	.09728	.05150	.04070	.00607	6.0715
#1	.00535	.02001	.09697	.05147	.04708	.00096	5.3498
#2	.00620	.01939	.09781	.05132	.03175	.00325	7.1833
#3	.00621	.01952	.09705	.05170	.04328	.01399	5.6815
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.02000	.10000	.05000			6.0000
Range		.01000	.05000	.02500			3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	9.1494	.02888	.07645	.09672	.02203	.74784	27.130
#1	7.5188	.02862	.07657	.07032	.02098	.55730	27.438
#2	10.118	.02905	.07600	.13944	.02420	1.2087	28.125
#3	9.8118	.02898	.07678	.08040	.02091	.47759	25.826
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	10.000	.03000	.08000		.02000		20.000
Range	5.0000	.01500	.04000		.01000		10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.09891	.03675	.03982	4.7748	6.7199	2.8485	12.288
#1	.09822	.03647	.03902	-2.3488	9.1990	-2.4814	12.507
#2	.10011	.03698	.04066	15.809	2.8707	11.666	9.3315
#3	.09840	.03679	.03979	.86461	8.0899	-.63930	15.025
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.10000	.04000	.04000				
Range	.05000	.02000	.02000				

Analysis Report QC Standard 05/18/06 05:36:07 PM page 1

Method: TRACECLP Sample Name: ICSA Operator: DLR
Run Time: 05/18/06 17:27:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	452.75	.00079	-.38875	.00065	-.00070	-.00512	2.5001
#1	448.37	.01110	8.0688	.00047	-.00011	-.00370	3.2254
#2	450.54	-.01038	-5.6546	.00031	-.00145	-.00780	1.7998
#3	459.35	.00165	-3.5804	.00116	-.00053	-.00387	2.4751
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value		.00000	.00000	.00000	.00000		.00000
Range		.02500	20.000	.03000	.00500		9.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	415.36	.00069	.00394	.00278	154.35	463.47	.57711
#1	410.26	.00223	.00345	.00527	152.33	456.05	.31326
#2	410.03	-.00192	.00262	-.00047	152.53	456.14	2.0169
#3	425.79	.00175	.00575	.00352	158.19	478.21	-.59879
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.00000	.00000	.00200			.00000
Range		.03000	.03000	.03000			9.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-9.9228	-.00523	.00256	.12408	.00560	.90354	14.054
#1	-10.278	-.00487	.00304	.07968	.00385	.48167	9.9220
#2	-10.074	-.00561	.00133	.05232	.00378	.26449	11.429
#3	-9.4162	-.00522	.00332	.24024	.00917	Q1.9645	Q20.811
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00400	.00200	.00000	.00000	.02000	.00000
Range	15.000	.03000	.05000	7.5000	.03000	1.2000	15.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	-.00092	-.00508	-.00274	50.882	-24.575	-1.6115	-14.090
#1	-.00204	-.00497	-.00133	39.115	-19.087	-.07669	-15.390
#2	-.00320	-.00597	-.00372	33.859	-13.904	-5.1182	-12.565
#3	.00249	-.00431	-.00315	79.672	-40.734	.36050	-14.316
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.01700	.01700				
Range	.03000	.03000	.03000				

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Method: TRACECLP Sample Name: ICSAB Operator: DLR
Run Time: 05/18/06 17:36:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	456.57	.88383	927.49	.48212	.43546	.86447	831.25
#1	456.74	.87939	928.44	.48130	.43567	.86442	832.78
#2	457.22	.88896	929.57	.48268	.43710	.86782	833.84
#3	455.76	.88314	924.47	.48237	.43361	.86117	827.13
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		1.0000	1000.0	.50000	.50000	1.0000	1000.0
Range		.20440	204.40	.10220	.10220	.20440	204.40

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	418.64	.43482	.40478	.46300	156.78	471.65	841.88
#1	419.47	.43583	.40433	.46265	156.91	472.03	845.93
#2	420.09	.43611	.40618	.46592	157.28	473.85	842.87
#3	416.35	.43252	.40384	.46044	156.15	469.07	836.82
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.50000	.50000	.50000			1000.0
Range		.10220	.10220	.10220			204.40

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	923.16	.42839	Q.76271	.02904	.92693	1.1568	891.06
#1	929.87	.42853	Q.76325	-.02256	.92405	.57907	887.84
#2	922.31	.42995	Q.76899	.06096	.93132	1.3671	896.35
#3	917.30	.42668	Q.75588	.04872	.92543	1.5241	889.00
Errors	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	1000.0	.50000	1.0000		1.0000		1000.0
Range	204.40	.10220	.20440		.20440		204.40

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.44503	.80228	.94397	872.33	826.65	925.50	921.98
#1	.44322	.80370	.94265	856.86	840.46	915.62	936.99
#2	.44731	.80484	.94699	873.37	827.62	924.71	921.10
#3	.44456	.79830	.94227	886.75	811.86	936.17	907.86
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.50000	1.0000	1.0000				
Range	.10220	.20440	.20440				

Analysis Report QC Standard 05/18/06 05:54:18 PM page 1

Method: TRACECLP Sample Name: CCVAC Operator: DLR
Run Time: 05/18/06 17:45:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.0793	-.00180	2507.1	5.3556	.48157	.00595	487.55
#1	5.1281	-.00840	2487.9	5.3163	.47786	.00470	481.89
#2	5.0774	-.00327	2512.7	5.3894	.48330	.00527	490.25
#3	5.0324	.00627	2520.6	5.3611	.48354	.00790	490.52
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	5.0000		2500.0	5.0000	.50000		500.00
Range	.52200		261.00	.52200	.05220		52.200

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	10.557	.98312	2.4100	.97241	4.8025	10.413	2460.6
#1	10.548	.97442	2.3900	.96543	4.7685	10.392	2432.6
#2	10.570	.98606	2.4202	.97619	4.8163	10.437	2471.7
#3	10.553	.98889	2.4197	.97562	4.8226	10.411	2477.4
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	1.0000	2.5000	1.0000	5.0000	10.000	2500.0
Range	1.0440	.10440	.26100	.10440	.52200	1.0440	261.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2557.8	.49445	2.3155	9.6182	.47892	9.8032	2484.7
#1	2527.0	.49027	2.2899	9.5565	.47508	9.6600	2461.5
#2	2568.6	.49664	2.3184	9.6429	.48025	9.6431	2491.4
#3	2577.9	.49646	2.3382	9.6551	.48143	10.106	2501.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2500.0	.50000	2.5000	10.000	.50000	10.000	2500.0
Range	261.00	.05220	.26100	1.0440	.05220	1.0440	261.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	2.4951	.49508	.53073	2478.8	2451.5	2571.1	2551.2
#1	2.4768	.48940	.52641	2474.5	2411.7	2563.9	2508.5
#2	2.5036	.49802	.53361	2478.1	2468.6	2587.8	2559.0
#3	2.5049	.49782	.53216	2483.9	2474.2	2561.7	2586.0
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2.5000	.50000	.50000				
Range	.26100	.05220	.05220				

Analysis Report Blank Sample 05/18/06 06:03:24 PM page 1

Method: TRACECLP Sample Name: CCB Operator: DLR
Run Time: 05/18/06 17:54:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.03098	.00122	2.0052	.00138	.00046	.00242	.36737
#1	.04109	.00283	.69563	.00169	.00043	.00307	.43520
#2	.04085	.00472	4.6300	.00139	.00083	.00361	.58499
#3	.01099	-.00389	.68985	.00105	.00011	.00057	.08191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.03935	.00085	.00135	.00213	.03411	.04281	1.8919
#1	.05696	.00079	.00039	.00136	.02525	.05400	2.8699
#2	.03907	.00231	.00164	.00345	.06454	.04943	.96572
#3	.02203	-.00053	.00201	.00158	.01254	.02499	1.8402
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.89749	.00009	.00079	.07848	.00342	H.72629	3.5004
#1	.03914	.00020	.00052	.06024	.00247	H.37164	2.7348
#2	.09066	.00034	.00271	.08544	.00296	H.76959	2.1156
#3	-2.8223	-.00026	-.00087	.08976	.00484	H1.0376	5.6508
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00256	-.00026	-.00067	6.5037	-.41392	-3.6611	.47233
#1	.00232	-.00046	-.00095	8.5068	.05146	-3.7717	1.9325
#2	.00287	.00016	.00020	4.6001	-.85145	2.8593	-1.3057
#3	.00249	-.00047	-.00126	6.4042	-.44176	-10.071	.79010
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

Analysis Report 05/18/06 06:12:30 PM page 1

Method: TRACECLP Sample Name: 001261-01C1 Operator: DLR
Run Time: 05/18/06 18:03:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	68.420	.36162	912.66	1.5872	.46666	.59917	485.14
#1	69.146	.36918	926.65	1.6031	.47230	.60653	492.13
#2	68.380	.35798	913.10	1.5838	.46574	.59859	484.49
#3	67.733	.35768	898.24	1.5748	.46194	.59237	478.80

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	37.687	.62560	.70192	.80530	87.750	26.267	1114.3
#1	38.169	.63354	.70742	.81621	88.868	26.631	1132.5
#2	37.639	.62461	.70221	.80325	87.586	26.246	1110.1
#3	37.254	.61866	.69612	.79644	86.796	25.925	1100.1

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	974.86	4.2530	.47364	19.128	.99133	-.43536	1655.2
#1	987.37	4.3047	.47851	19.228	.99820	-1.4337	1664.7
#2	970.97	4.2439	.47408	19.153	.99098	-.22236	1657.9
#3	966.26	4.2104	.46834	19.002	.98482	.34999	1643.1

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	1.0341	2.3373	2.5264	1118.7	1112.1	980.23	972.17
#1	1.0437	2.3675	2.5538	1122.4	1137.7	980.17	990.95
#2	1.0330	2.3353	2.5260	1111.2	1109.6	967.62	972.63
#3	1.0255	2.3090	2.4993	1122.4	1088.9	992.89	952.93

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Method: TRACECLP Sample Name: 001261-01K1 Operator: DLR
Run Time: 05/18/06 18:12:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	1.7780	.41340	1759.7	2.0123	.04353	L.00615	43.442
#1	1.7318	.40280	1716.4	1.9828	.04257	L.00609	42.457
#2	1.7912	.40947	1761.7	2.0181	.04335	L.00589	43.431
#3	1.8110	.42794	1801.1	2.0362	.04468	L.00647	44.438
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	2.5080	.62700	2508.0	2.5080	.06270	1.2044	62.700
Low	1.4920	.37300	1492.0	1.4920	.03730	.76560	37.300

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.29955	.18163	.44779	.23164	H2.8818	.01877	446.64
#1	.28995	.17819	.43485	.22818	H2.8258	.00865	438.03
#2	.30528	.18055	.45189	.23115	H2.8642	.02555	444.53
#3	.30341	.18615	.45665	.23560	H2.9553	.02211	457.35
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC High	NOCHECK	LC Pass
High		.25080	.62700	.31350	1.2540		627.00
Low		.14920	.37300	.18650	.74600		373.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1717.3	.45798	.42895	.17808	.05027	1.7834	1777.0
#1	1678.1	.44759	.41617	.17328	.04876	1.6933	1721.0
#2	1716.7	.45946	.43184	.27408	.05435	2.7389	1794.0
#3	1756.9	.46690	.43883	.08688	.04771	.91787	1816.0
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	2508.0	.62700	.62700		.06270		2508.0
Low	1492.0	.37300	.37300		.03730		1492.0

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.45793	.54330	.58282	466.33	436.79	1726.6	1712.6
#1	.44720	.52798	.56988	458.69	427.69	1685.2	1674.6
#2	.46125	.54310	.58392	478.21	427.70	1747.0	1701.6
#3	.46533	.55882	.59467	462.10	454.97	1747.6	1761.6
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.62700	.62700	.62700				
Low	.37300	.37300	.37300				

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Method: TRACECLP Sample Name: 001261-01B1 Operator: DLR
Run Time: 05/18/06 18:21:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	-.02537	-.00136	-.25538	.00038	-.00015	.00338	.03962
#1	-.03986	-.00893	-4.2654	-.00038	-.00072	.00140	-.42586
#2	-.01870	.00835	6.3477	.00043	.00035	.00619	.40089
#3	-.01756	-.00349	-2.8484	.00109	-.00008	.00255	.14385
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.08908	.00366	-.00152	.00090	.05799	.00320	3.8291
#1	.08379	.00182	-.00448	-.00131	.01428	-.00129	3.9297
#2	.08846	.00542	-.00093	.00269	.08880	.00350	5.1238
#3	.09499	.00376	.00084	.00132	.07088	.00739	2.4337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-1.5567	.00077	.00246	-.02976	-.00130	.02931	-1.6365
#1	-.13344	.00052	.00039	L-.18384	-.00731	L-1.4520	L-10.806
#2	-4.4278	.00106	.00418	-.00384	-.00053	H.34256	.43290
#3	-.10875	.00074	.00279	.09840	.00394	H1.1973	5.4636
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	-.00103	H.08195	H.08958	-.89561	6.1914	-11.237	3.2716
#1	-.00533	H.08117	H.08731	-17.275	14.532	-18.101	8.8383
#2	-.00018	H.08350	H.09218	5.8313	4.7701	-7.7870	-2.7602
#3	.00242	H.08117	H.08926	8.7566	-.72775	-7.8235	3.7366
Errors	LC Pass	LC High	LC High	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-01 Operator: DLR
Run Time: 05/18/06 18:30:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	11.585	-.00028	12.582	.03385	-.00098	.01733	3.7428
#1	11.707	.00153	13.890	.03438	-.00075	.01963	3.9346
#2	11.565	.00623	10.199	.03372	-.00139	.01665	3.5148
#3	11.483	.00387	13.657	.03344	-.00079	.01569	3.7789
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H392.23	.04275	.01721	.02952	32.546	96.334	112.72
#1	H399.65	.04459	.01879	.03083	33.040	98.349	113.86
#2	H391.48	.04120	.01633	.02851	32.449	95.984	113.91
#3	H385.57	.04245	.01652	.02923	32.149	94.670	110.40
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	3.4507	.90866	.04135	1.6347	.00107	.19352	-1.6578
#1	7.8115	.92279	.04247	1.7566	.00464	.84953	3.6267
#2	-.31482	.90609	.04044	1.5737	-.00124	-.27135	-2.7155
#3	2.8554	.89708	.04113	1.5737	-.00019	.00237	-5.8847
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.04979	.22634	.25698	114.78	111.70	-1.1170	5.7225
#1	.05270	.23579	.26546	127.94	106.82	6.5657	8.4223
#2	.04866	.22528	.25637	112.80	114.47	-2.5314	.78144
#3	.04801	.21794	.24910	103.60	113.80	-7.3852	7.9637
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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ethod: TRACECLP Sample Name: 001261-01MS Operator: DLR
un Time: 05/18/06 18:39:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	12.474	.30821	1770.4	1.9475	.04258	.01550	40.925
#1	12.300	.29779	1724.5	1.9258	.04112	.01350	39.281
#2	12.516	.31011	1780.5	1.9539	.04295	.01719	41.276
#3	12.605	.31674	1806.3	1.9628	.04368	.01583	42.216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H376.43	.21607	.42245	.24755	30.503	92.593	460.93
#1	H367.58	.20975	.41283	.24210	29.737	89.947	450.83
#2	H377.01	.21764	.42341	.24967	30.606	92.700	459.02
#3	H384.69	.22083	.43111	.25088	31.166	95.131	472.95
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1716.8	1.3420	.42207	1.2792	.04701	.86686	1701.1
#1	1679.7	1.3131	.40726	1.2051	.04406	.27292	1644.6
#2	1712.6	1.3451	.42398	1.2778	.04708	.84009	1702.9
#3	1758.0	1.3678	.43497	1.3548	.04988	1.4876	1755.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.49565	.60943	.68900	468.95	456.93	1726.7	1711.8
#1	.48345	.58828	.67072	464.27	444.11	1707.4	1665.8
#2	.49734	.60857	.68988	472.58	452.24	1726.4	1705.6
#3	.50615	.63144	.70640	469.99	474.43	1746.2	1763.9
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-01MD Operator: DLR
Run Time: 05/18/06 18:48:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	17.267	.30003	1745.2	1.9275	.04146	.01829	40.256
#1	17.162	.30048	1735.5	1.9224	.04157	.01925	40.069
#2	17.166	.29080	1732.3	1.9156	.04069	.01600	39.720
#3	17.472	.30880	1767.8	1.9444	.04212	.01963	40.979
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H357.69	.22790	.41853	.24809	37.207	85.639	460.27
#1	H355.21	.22691	.41158	.24788	36.968	84.946	462.88
#2	H354.66	.22511	.41676	.24487	36.903	84.730	456.52
#3	H363.19	.23169	.42726	.25153	37.751	87.240	461.41
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1706.3	1.3100	.42189	1.3767	.04455	.16433	1680.2
#1	1694.5	1.3018	.41914	1.1907	.03760	L-1.3363	1659.1
#2	1692.3	1.2996	.41804	1.4463	.04717	.82929	1670.4
#3	1732.1	1.3285	.42850	1.4931	.04886	1.0000	1711.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.50430	.55262	.63051	460.86	459.98	1712.8	1703.0
#1	.49665	.54961	.62979	434.44	477.10	1690.0	1696.8
#2	.50240	.54617	.62349	469.00	450.28	1710.6	1683.1
#3	.51385	.56208	.63824	479.14	452.55	1737.9	1729.2
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-01L Operator: DLR
Run Time: 05/18/06 18:57:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	2.4574	.00046	2.2068	.00758	-.00016	.00592	.84710
#1	2.4822	.00227	3.7452	.00748	-.00009	.00590	.70117
#2	2.4384	-.00268	-.12563	.00748	-.00044	.00430	.74568
#3	2.4515	.00180	3.0009	.00777	.00004	.00755	1.0944
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	88.359	.00817	.00345	.00644	7.0053	20.372	25.916
#1	89.504	.00819	.00235	.00729	7.1074	20.703	26.770
#2	87.697	.00667	.00360	.00489	6.9219	20.161	24.206
#3	87.876	.00964	.00439	.00714	6.9865	20.253	26.770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.33675	.19509	.01012	.27576	-.00066	-.13725	.72893
#1	.56369	.19754	.01036	.22368	-.00211	-.47124	-2.3113
#2	1.8290	.19329	.00943	.27624	-.00134	-.20893	.29330
#3	-3.4029	.19442	.01057	.32737	.00146	.26844	4.2048
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00981	.05044	.05625	28.320	24.713	3.2465	-2.1404
#1	.00899	.05127	.05685	27.134	26.588	2.4524	-.39265
#2	.00941	.04961	.05519	26.892	22.863	4.7676	.34769
#3	.01105	.05046	.05670	30.934	24.688	2.5196	-6.3761
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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ethod: TRACECLP Sample Name: 001261-02 Operator: DLR
un Time: 05/18/06 19:07:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	79.100	.00240	65.695	.36609	.00112	.08070	1.4798
#1	79.408	.00071	67.407	.36711	.00090	.07978	1.5943
#2	79.607	-.00080	64.484	.36895	.00125	.08134	1.3673
#3	78.285	.00729	65.193	.36222	.00121	.08098	1.4779
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H310.81	.13224	.06930	.09089	134.45	128.58	104.22
#1	H311.68	.13102	.06793	.09049	134.93	129.04	104.85
#2	H314.27	.13435	.07318	.09190	135.77	130.24	105.11
#3	H306.49	.13136	.06679	.09030	132.64	126.47	102.70
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.59329	2.4664	.16481	19.855	-.00078	-.05690	-.43612
#1	-.71149	2.4750	.16407	19.893	-.00361	-.67341	-3.2022
#2	1.3492	2.4874	.16789	H20.154	.00499	1.3428	10.036
#3	-2.4176	2.4369	.16248	19.517	-.00372	-.84005	-8.1417
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.14289	.37559	.42380	110.47	101.09	6.6152	-4.2095
#1	.14156	.37672	.42596	109.83	102.36	8.4197	-5.2890
#2	.14869	.38116	.42855	129.76	92.793	26.356	-11.166
#3	.13843	.36888	.41689	91.831	108.13	-14.930	3.8266
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-03 Operator: DLR
Run Time: 05/18/06 19:16:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	34.727	.00052	25.595	.27996	-.00062	.03402	1.1606
#1	34.483	-.00256	22.796	.27895	-.00066	.03269	1.0357
#2	34.675	-.00311	23.626	.27894	-.00107	.03218	1.0061
#3	35.022	.00721	30.361	.28200	-.00014	.03718	1.4398
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	229.90	.07014	.02914	.09363	75.037	110.67	242.09
#1	227.10	.06862	.02804	.09296	74.341	109.23	239.26
#2	229.11	.06869	.02808	.09201	74.684	109.94	243.45
#3	233.48	.07312	.03129	.09593	76.084	112.85	243.56
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.38004	4.0073	.06641	4.5406	.00327	.56175	.21345
#1	-2.0915	3.9752	.06591	4.5186	.00219	.25869	.34807
#2	-.29290	3.9903	.06555	4.4667	.00093	.08324	-6.4739
#3	1.2442	4.0564	.06778	4.6366	.00668	1.3433	6.7662
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.10058	.39002	.43961	265.00	230.63	10.722	-5.9428
#1	.09980	.38587	.43785	263.47	227.15	17.468	-11.883
#2	.09831	.38653	.43500	261.63	234.36	12.531	-6.7166
#3	.10361	.39766	.44599	269.89	230.39	2.1663	.77119
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-04 Operator: DLR
Run Time: 05/18/06 19:25:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	14.402	.00330	23.998	.05006	-.00066	.02321	.76907
#1	14.469	.00351	22.633	.04996	-.00073	.02315	.59411
#2	14.265	.00819	27.372	.04976	-.00015	.02470	1.1043
#3	14.472	-.00181	21.988	.05047	-.00108	.02177	.60881
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H433.58	.05001	.02186	.03776	41.595	110.02	22.947
#1	H441.58	.04964	.02128	.03805	42.196	112.32	23.814
#2	H426.12	.05185	.02181	.03900	41.025	108.02	21.557
#3	H433.05	.04853	.02249	.03623	41.564	109.71	23.469
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	3.4617	1.2027	.04417	1.9642	.00086	.41450	-2.4527
#1	6.2500	1.2189	.04516	1.9474	-.00004	.23512	-3.8942
#2	2.6010	1.1862	.04438	1.9366	.00099	.30774	-1.6757
#3	1.5341	1.2031	.04296	2.0086	.00162	.70066	-1.7883
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.05155	.17753	.20584	27.982	20.429	7.0888	1.6362
#1	.05123	.18739	.21618	29.059	21.191	15.069	1.8286
#2	.05093	.17185	.20039	24.065	20.303	4.4308	1.6742
#3	.05250	.17334	.20095	30.823	19.793	1.7664	1.4059
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Analysis Report QC Standard 05/18/06 07:43:18 PM page 1

Method: TRACECLP Sample Name: CCVAC Operator: DLR
Run Time: 05/18/06 19:34:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.0343	.00292	2493.3	5.4165	.48128	.00765	483.44
#1	5.1000	.00494	2536.1	5.4652	.48931	.00770	493.74
#2	5.0289	.00196	2490.4	5.4137	.48012	.00750	481.91
#3	4.9738	.00186	2453.3	5.3706	.47440	.00776	474.67
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	5.0000		2500.0	5.0000	.50000		500.00
Range	.52200		261.00	.52200	.05220		52.200

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	10.402	.98301	2.4024	.97747	4.7948	10.287	2452.6
#1	10.593	.99888	2.4481	.99022	4.8507	10.491	2493.4
#2	10.377	.98218	2.3962	.97509	4.8003	10.269	2458.7
#3	10.235	.96799	2.3629	.96710	4.7333	10.103	2405.7
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	1.0000	2.5000	1.0000	5.0000	10.000	2500.0
Range	1.0440	.10440	.26100	.10440	.52200	1.0440	261.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2535.4	.49378	2.3078	9.8423	.48274	10.415	2474.0
#1	2579.4	.50186	2.3594	10.007	.49052	Q11.054	2517.3
#2	2543.4	.49248	2.2986	9.7509	.47913	9.8482	2465.1
#3	2483.5	.48700	2.2652	9.7689	.47857	10.343	2439.7
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2500.0	.50000	2.5000	10.000	.50000	10.000	2500.0
Range	261.00	.05220	.26100	1.0440	.05220	1.0440	261.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	2.5016	.49070	.52994	2462.8	2447.5	2537.3	2534.5
#1	2.5411	.50197	.53879	2519.9	2480.1	2592.9	2572.7
#2	2.4939	.48972	.52774	2453.4	2461.4	2528.1	2551.1
#3	2.4698	.48042	.52328	2415.2	2401.0	2490.9	2479.8
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2.5000	.50000	.50000				
Range	.26100	.05220	.05220				

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Method: TRACECLP Sample Name: CCB Operator: DLR
Run Time: 05/18/06 19:43:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.03328	.00477	3.7108	.00152	.00039	.00344	.32285
#1	.02401	.00185	.32069	.00126	.00005	.00270	.25532
#2	.03709	.00810	5.2950	.00158	.00054	.00375	.47171
#3	.03874	.00435	5.5168	.00173	.00059	.00388	.24151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.00236	.00122	.00219	.00317	.03193	.00563	.94199
#1	.00069	-.00011	.00198	.00215	.00110	.00373	.20100
#2	.00276	.00196	.00152	.00337	.04551	.00418	2.1335
#3	.00363	.00182	.00307	.00398	.04919	.00898	.49147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.31241	.00024	.00214	H.11208	.00405	H.99082	6.6862
#1	.14869	-.00001	.00239	H.10056	.00331	H.84132	7.5742
#2	1.0622	.00038	.00210	.09480	.00352	H.91364	4.0998
#3	-.27366	.00034	.00194	H.14088	.00533	H1.2175	8.3847
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00325	.00326	.00289	4.2422	-.70806	-5.7738	3.3435
#1	.00267	.00297	.00265	-.42902	.51601	-5.5396	2.9808
#2	.00250	.00309	.00272	5.7804	.31012	-5.4303	4.2964
#3	.00457	.00372	.00331	7.3751	-2.9503	-6.3515	2.7532
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-05 Operator: DLR
Run Time: 05/18/06 19:52:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	31.095	.00627	21.945	.22343	-.00020	.01271	.74286
#1	30.793	.00701	20.348	.22205	-.00042	.01158	.42998
#2	30.980	.00410	22.727	.22274	-.00030	.01246	.71476
#3	31.512	.00771	22.759	.22549	.00014	.01408	1.0838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	5.4982	.04618	.02161	.03582	42.792	6.4946	70.596
#1	5.4031	.04502	.02011	.03474	42.248	6.3639	70.225
#2	5.4651	.04551	.02113	.03585	42.495	6.4397	69.445
#3	5.6263	.04800	.02358	.03687	43.635	6.6801	72.119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.05605	1.4889	.04023	1.7103	.00274	.46425	-1.1728
#1	1.4794	1.4697	.03897	1.6176	-.00039	-.34395	-6.8734
#2	-2.4313	1.4807	.04023	1.6788	.00199	.27997	.20728
#3	1.1201	1.5163	.04149	1.8343	.00662	1.4567	3.1478
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.07786	.24188	.26234	81.586	65.101	-3.5454	1.8447
#1	.07479	.24330	.26472	75.400	67.637	-5.8968	5.1554
#2	.07707	.23699	.25789	80.572	63.881	-3.3276	-1.9952
#3	.08171	.24534	.26439	88.785	63.786	-1.4117	2.3740
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001261-06 Operator: DLR
Run Time: 05/18/06 20:01:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	18.618	.01009	87.901	.18442	.00018	.00945	.72422
#1	18.871	.01081	93.541	.18614	.00046	.01118	1.0049
#2	18.575	.01465	85.942	.18375	.00031	.00963	.64995
#3	18.409	.00481	84.219	.18336	-.00023	.00754	.51782
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	11.539	.04895	.03066	.07899	57.364	7.3134	85.652
#1	11.821	.05116	.03178	.08053	58.602	7.5382	87.334
#2	11.470	.04846	.02993	.07958	57.083	7.2727	84.447
#3	11.325	.04722	.03027	.07688	56.406	7.1294	85.174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2.1291	1.7096	.06906	1.4715	.00112	.04015	-4.0558
#1	3.6742	1.7432	.07116	1.5348	.00188	.30675	-1.7645
#2	3.1821	1.7020	.06892	1.4319	-.00003	-.20264	-4.8876
#3	-.46904	1.6835	.06709	1.4477	.00150	.01635	-5.5151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.05325	.21112	.23141	82.949	87.003	-13.597	9.9801
#1	.05460	.22102	.24041	90.649	85.676	-7.0936	9.0461
#2	.05244	.20857	.22935	77.669	87.836	-12.252	10.887
#3	.05272	.20378	.22446	80.530	87.496	-21.446	10.007
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Analysis Report LCSS 05/18/06 08:19:39 PM page 1

Method: TRACECLP Sample Name: 001263-07C1 Operator: DLR
Run Time: 05/18/06 20:10:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	74.558	.33969	1377.6	2.3008	.38846	.82199	609.20
#1	74.539	.33784	1381.2	2.2948	.38837	.82095	609.92
#2	75.095	.33469	1383.4	2.3215	.38990	.82538	611.47
#3	74.042	.34653	1368.1	2.2862	.38710	.81963	606.19

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	36.159	.81613	.59928	.67479	100.12	25.194	884.78
#1	36.179	.81561	.60215	.67259	100.13	25.239	877.49
#2	36.369	.82010	.60003	.67852	100.60	25.320	890.04
#3	35.930	.81270	.59565	.67327	99.632	25.022	886.81

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1200.0	4.6969	.62148	29.863	1.6954	7.5952	1046.3
#1	1203.0	4.6959	.62001	29.966	1.6996	9.0375	1048.6
#2	1200.7	4.7258	.62619	30.111	1.7024	6.6239	1046.8
#3	1196.4	4.6692	.61826	29.511	1.6841	7.1242	1043.6

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.74579	2.7983	3.0028	910.35	872.00	1205.3	1197.4
#1	.74992	2.8007	3.0001	935.03	848.72	1209.8	1199.6
#2	.74730	2.8106	3.0206	910.53	879.80	1220.8	1190.7
#3	.74014	2.7837	2.9876	885.49	887.48	1185.4	1201.9

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Method: TRACECLP Sample Name: 001263-07K1 Operator: DLR
Run Time: 05/18/06 20:19:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	1.7354	.40071	1717.4	1.8211	.04173	L.00641	42.942
#1	1.7303	.39449	1701.7	1.8129	.04131	L.00576	42.665
#2	1.7364	.40618	1723.5	1.8245	.04200	L.00799	42.797
#3	1.7395	.40146	1727.0	1.8258	.04189	L.00549	43.365
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	2.5080	.62700	2508.0	2.5080	.06270	1.2044	62.700
Low	1.4920	.37300	1492.0	1.4920	.03730	.76560	37.300

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.47227	.16780	.41696	.21003	1.0175	.01949	438.79
#1	.47100	.16662	.41540	.20749	1.0151	.02558	430.89
#2	.46671	.16862	.41442	.21198	1.0317	.01689	442.09
#3	.47909	.16815	.42106	.21061	1.0058	.01598	443.40
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High		.25080	.62700	.31350	1.2540		627.00
Low		.14920	.37300	.18650	.74600		373.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1834.2	.42020	.40576	.13728	.04645	.96634	1680.4
#1	1809.2	.41653	.40083	.20568	.04901	1.6073	1659.4
#2	1839.7	.42137	.40608	.00336	.04182	-.11686	1673.9
#3	1853.7	.42269	.41039	.20280	.04852	1.4086	1707.9
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	2508.0	.62700	.62700		.06270		2508.0
Low	1492.0	.37300	.37300		.03730		1492.0

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.41672	.47959	.51547	452.06	432.16	1880.5	1811.0
#1	.41510	.47383	.51210	459.04	416.81	1866.9	1780.4
#2	.41385	.47885	.51427	431.78	447.24	1865.4	1826.8
#3	.42122	.48609	.52005	465.35	432.43	1909.1	1826.0
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.62700	.62700	.62700				
Low	.37300	.37300	.37300				

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PBS

Method: TRACECLP Sample Name: 001263-07B1 Operator: DLR
Run Time: 05/18/06 20:28:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	-.00284	.00270	-.72152	.00074	.00008	.00638	.22399
#1	-.00435	.00155	-2.4781	.00048	-.00013	.00556	.15104
#2	-.01127	.00347	-1.1444	.00051	-.00013	.00522	.12330
#3	.00709	.00307	1.4579	.00124	.00050	.00836	.39764
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H.36214	.00399	-.00054	.00079	H.10444	.01713	2.5196
#1	H.36358	.00334	-.00188	-.00020	.09903	.01698	3.6104
#2	H.35445	.00334	-.00176	.00067	.08760	.01539	2.2677
#3	H.36840	.00528	.00201	.00189	H.12669	.01904	1.6806
Errors	LC High	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.49866	.00081	.00273	.02904	.00026	H.45889	-1.4477
#1	-4.0898	.00059	.00292	-.02256	-.00172	-.05150	-3.2288
#2	.04032	.00084	.00206	-.02472	-.00207	.00820	-5.0276
#3	2.5535	.00098	.00320	H.13440	.00457	H1.4200	3.9133
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	-.00000	H.06222	H.06810	5.9204	.81921	1.2774	-1.3987
#1	-.00136	H.06712	H.07404	1.5608	4.6351	-4.5069	-3.8933
#2	-.00118	H.06029	H.06569	-.72929	3.7662	1.3885	-.64576
#3	.00252	H.05925	H.06455	16.930	-5.9438	6.9507	.34294
Errors	LC Pass	LC High	LC High	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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LQ3286

Method: TRACECLP Sample Name: 001263-01 Operator: DLR
Run Time: 05/18/06 20:37:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	33.277	.00685	23.475	.17294	-.00118	.18351	.58661
#1	33.636	.00818	20.427	.17472	-.00134	.18444	.59492
#2	33.384	.00933	24.497	.17359	-.00102	.18506	.54663
#3	32.811	.00304	25.500	.17050	-.00118	.18103	.61828
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	6.8203	.08855	.06022	.07015	55.464	11.933	36.588
#1	6.9036	.08908	.06207	.07068	56.168	12.102	36.533
#2	6.8612	.08956	.06068	.07083	55.737	12.004	36.889
#3	6.6960	.08700	.05792	.06893	54.486	11.693	36.341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2.2830	1.4803	.15050	2.3276	.00125	-.38086	.44463
#1	3.3832	1.4953	.15113	2.4298	.00373	.11495	2.5484
#2	4.1687	1.4883	.15198	2.3268	.00093	-.31871	-1.1226
#3	-.70294	1.4573	.14840	2.2260	-.00091	-.93881	-.09191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.08619	.15931	.16920	40.757	34.503	2.4005	2.2122
#1	.08876	.16185	.17137	55.011	27.294	7.6086	1.2585
#2	.08664	.16068	.16970	41.098	34.785	-.96049	6.7213
#3	.08316	.15541	.16653	26.162	41.430	.55344	-1.3431
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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LQ3287

Method: TRACECLP Sample Name: 001263-02 Operator: DLR
Run Time: 05/18/06 20:46:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	13.536	-.00048	31.266	.05234	-.00092	.02710	.45616
#1	13.437	-.00020	28.861	.05205	-.00086	.02715	.44875
#2	13.499	-.00503	29.917	.05231	-.00133	.02536	.21710
#3	13.671	.00378	35.021	.05266	-.00056	.02878	.70264
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H448.23	.04452	.02571	.04942	39.721	114.37	30.727
#1	H443.36	.04335	.02521	.04820	39.281	112.68	31.908
#2	H446.64	.04335	.02502	.04851	39.530	113.87	28.134
#3	H454.70	.04688	.02691	.05155	40.353	116.57	32.138
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	3.1356	1.3480	.05403	2.0897	.00274	.63666	4.1899
#1	2.3273	1.3352	.05297	2.0576	.00180	.28844	3.6452
#2	1.1736	1.3410	.05362	2.0583	.00236	.53958	.91910
#3	5.9057	1.3678	.05549	2.1533	.00405	1.0819	8.0054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.05543	.15572	.17613	40.696	25.742	5.5932	1.8947
#1	.05439	.15323	.17486	40.404	27.661	8.8299	-.93592
#2	.05459	.15300	.17429	38.930	22.737	8.2535	-2.3783
#3	.05731	.16092	.17924	42.755	26.830	-.30375	8.9985
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-03 Operator: DLR
Run Time: 05/18/06 20:56:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	13.093	.00107	15.932	.05032	-.00048	.05397	.57246
#1	13.012	.00415	16.009	.04961	-.00024	.05477	.36249
#2	12.975	-.00434	13.852	.05008	-.00080	.05153	.46911
#3	13.291	.00341	17.936	.05126	-.00041	.05560	.88579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H372.69	.03756	.02619	.03616	36.000	94.646	22.324
#1	H369.46	.03705	.02434	.03721	35.653	93.692	22.459
#2	H368.34	.03643	.02551	.03444	35.635	93.193	22.150
#3	H380.26	.03920	.02872	.03683	36.710	97.052	22.364
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.00413	1.1682	.04849	1.7955	.00215	.66485	2.1651
#1	.52426	1.1576	.04951	1.7163	-.00091	-.13618	.56327
#2	.72842	1.1576	.04744	1.7645	.00189	.53809	-1.5421
#3	-1.2403	1.1894	.04853	1.9056	.00546	1.5926	7.4741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.05496	.11226	.12769	29.653	18.660	5.4944	-2.7530
#1	.05234	.11166	.12711	23.314	22.031	-4.8690	3.2088
#2	.05422	.11034	.12530	21.579	22.435	5.8472	-1.8429
#3	.05831	.11478	.13065	44.067	11.513	15.505	-9.6248
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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LQ3289

Method: TRACECLP Sample Name: 001263-04 Operator: DLR
Run Time: 05/18/06 21:05:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	44.747	.01073	29.981	.34178	-.00137	.45396	.68672
#1	45.465	.01287	32.993	.34601	-.00096	.46157	.88083
#2	44.830	.01343	30.213	.34310	-.00123	.45611	.64990
#3	43.945	.00591	26.737	.33621	-.00191	.44420	.52942
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	7.5509	.12289	.12275	.13514	79.956	19.504	43.407
#1	7.6987	.12752	.12342	.13855	81.452	19.917	45.351
#2	7.5858	.12393	.12485	.13563	80.266	19.622	43.038
#3	7.3682	.11722	.11998	.13125	78.150	18.972	41.831
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.88655	2.4428	.22979	2.4202	.00185	-.29234	-1.8601
#1	5.7184	2.4853	.23577	2.4060	-.00078	-.86380	-5.9107
#2	-3.8054	2.4532	.23125	2.5155	.00535	.53698	5.8629
#3	.74660	2.3900	.22234	2.3391	.00099	-.55019	-5.5324
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.17958	.41347	.44309	43.560	43.330	-13.637	8.1361
#1	.18127	.42579	.45467	35.696	50.178	-16.953	17.042
#2	.18265	.41526	.44305	53.595	37.759	-21.149	4.8542
#3	.17483	.39936	.43153	41.388	42.053	-2.8084	2.5121
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

Analysis Report QC Standard 05/18/06 09:23:12 PM page 1

Method: TRACECLP Sample Name: CCVAC Operator: DLR
Run Time: 05/18/06 21:14:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.1349	-.00417	2578.3	5.4397	.49862	.00613	506.34
#1	5.1107	-.00714	2550.4	5.4169	.49328	.00499	500.61
#2	5.1449	-.00071	2596.1	5.4403	.50169	.00694	509.59
#3	5.1491	-.00467	2588.5	5.4619	.50089	.00646	508.81
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	5.0000		2500.0	5.0000	.50000		500.00
Range	.52200		261.00	.52200	.05220		52.200

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	10.875	1.0184	2.4881	1.0000	4.9152	10.766	2536.1
#1	10.757	1.0070	2.4643	.99064	4.8420	10.638	2498.7
#2	10.935	1.0243	2.5018	1.0044	4.9861	10.843	2548.6
#3	10.934	1.0239	2.4983	1.0051	4.9174	10.816	2561.0
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	1.0000	2.5000	1.0000	5.0000	10.000	2500.0
Range	1.0440	.10440	.26100	.10440	.52200	1.0440	261.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2629.7	.50929	2.4244	10.047	.49655	10.842	2592.8
#1	2598.3	.50513	2.3944	10.013	.49331	10.806	2562.9
#2	2641.2	.51128	2.4342	10.100	.50051	Q11.454	2604.9
#3	2649.6	.51146	2.4446	10.028	.49583	10.267	2610.5
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2500.0	.50000	2.5000	10.000	.50000	10.000	2500.0
Range	261.00	.05220	.26100	1.0440	.05220	1.0440	261.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	2.5809	.51495	.54872	2570.4	2518.9	2644.5	2622.3
#1	2.5608	.50796	.54341	2547.6	2474.3	2618.0	2588.5
#2	2.5893	.51900	.55171	2581.7	2532.0	2655.0	2634.4
#3	2.5926	.51788	.55104	2582.0	2550.6	2660.6	2644.2
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2.5000	.50000	.50000				
Range	.26100	.05220	.05220				

Analysis Report Blank Sample 05/18/06 09:32:17 PM page 1

Method: TRACECLP Sample Name: CCB Operator: DLR
Run Time: 05/18/06 21:23:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.02581	-.00160	-.52051	.00092	-.00018	.00098	.00406
#1	.02638	.00200	-.34711	.00093	.00003	.00033	-.15521
#2	.02502	.00084	1.0636	.00082	.00000	.00277	.25420
#3	.02604	-.00764	-2.2781	.00100	-.00057	-.00017	-.08682
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.00011	-.00039	.00135	.00072	-.00986	-.00084	2.9559
#1	-.00086	-.00025	.00092	.00067	-.01405	.00121	2.3085
#2	-.00034	.00030	.00084	.00246	.01381	.00053	3.4524
#3	.00154	-.00122	.00228	-.00096	-.02934	-.00427	3.1068
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-3.8456	-.00013	.00039	.06432	.00270	H.55185	7.6971
#1	-3.4400	-.00005	.00056	.01992	.00177	H.19002	6.0827
#2	-2.0415	.00006	.00092	.06312	.00261	H.68930	8.5658
#3	-6.0555	-.00040	-.00030	H.10992	.00373	H.77623	8.4427
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00213	.00270	.00252	9.9861	-.55911	1.2890	-6.4249
#1	.00150	.00232	.00223	3.6719	1.6268	-4.1024	-3.1207
#2	.00222	.00297	.00242	8.4930	.93218	-4.8030	-.67274
#3	.00266	.00282	.00290	17.793	-4.2363	12.772	-15.481
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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LQ3290

Method: TRACECLP Sample Name: 001263-05 Operator: DLR
Run Time: 05/18/06 21:32:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	28.447	.00807	22.477	.45501	-.00018	.01500	.95963
#1	28.793	.00426	19.974	.45812	-.00048	.01504	.76067
#2	28.560	.01194	24.411	.45692	-.00002	.01434	1.2180
#3	27.989	.00802	23.046	.44998	-.00004	.01563	.90020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	6.4428	.05771	.03745	.06751	46.212	6.5096	244.55
#1	6.5602	.05824	.03779	.06798	46.986	6.6515	248.61
#2	6.4842	.05824	.03711	.06805	46.468	6.5469	247.84
#3	6.2839	.05665	.03745	.06649	45.181	6.3303	237.20
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	3.9257	.57912	.04978	1.5802	.00041	-.50523	-4.4890
#1	6.7040	.58810	.05012	1.6011	.00059	-.45318	-6.4402
#2	2.9546	.58209	.05102	1.5499	-.00096	-.94272	-5.7071
#3	2.1183	.56716	.04821	1.5895	.00161	-.11979	-1.3196
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.08920	.30411	.32656	238.98	247.34	-10.151	10.952
#1	.09049	.31483	.33686	250.47	247.68	4.7583	7.6649
#2	.08854	.30618	.32686	231.72	255.91	-21.421	15.130
#3	.08857	.29131	.31594	234.76	238.42	-13.791	10.061
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-06 Operator: DLR
Run Time: 05/18/06 21:41:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	35.920	.00270	15.166	.18574	-.00164	.01991	.06239
#1	35.792	.00062	19.209	.18515	-.00151	.02059	.19391
#2	35.894	.00307	14.099	.18635	-.00188	.01840	-.43681
#3	36.073	.00440	12.190	.18570	-.00152	.02076	.43007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	7.5464	.06472	.02424	.04346	40.118	8.4420	47.143
#1	7.4776	.06419	.02370	.04414	39.820	8.3574	46.034
#2	7.5322	.06399	.02460	.04185	40.022	8.4138	47.443
#3	7.6294	.06599	.02441	.04440	40.512	8.5548	47.952
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-1.7351	.41589	.04654	2.5289	.00242	-.51000	1.1107
#1	-1.1392	.41247	.04577	2.5400	.00328	-.51632	4.0427
#2	-.99383	.41531	.04552	2.5407	.00286	-.29958	-1.6600
#3	-3.0722	.41989	.04833	2.5061	.00112	-.71409	.94939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.09820	.18341	.19469	57.095	42.167	-3.6426	-.79328
#1	.09799	.18092	.19251	61.163	38.469	-3.6581	.10823
#2	.09873	.18180	.19286	61.670	40.330	-4.6594	.82695
#3	.09789	.18751	.19872	48.450	47.703	-2.6104	-3.3150
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-07 Operator: DLR
un Time: 05/18/06 21:50:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	25.983	.00383	19.359	.17055	-.00052	.14397	.19521
#1	25.969	.01235	24.933	.17028	.00037	.14564	.73072
#2	25.853	-.00058	13.792	.17035	-.00080	.14257	-.02259
#3	26.126	-.00029	19.353	.17103	-.00112	.14369	-.12249
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	24.526	.06223	.04079	.06476	40.916	9.2128	42.305
#1	24.601	.06537	.03930	.06836	41.072	9.2635	41.851
#2	24.379	.06101	.04281	.06277	40.706	9.1579	42.977
#3	24.599	.06032	.04028	.06315	40.971	9.2170	42.087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.00981	.66597	.08296	2.0506	.00287	-.16120	-1.1760
#1	-1.9209	.66902	.08426	1.9935	.00071	-.73398	-4.2820
#2	2.1974	.66142	.08174	2.1425	.00671	.86013	2.9833
#3	-.30586	.66746	.08288	2.0158	.00120	-.60974	-2.2292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.09702	.19541	.21183	51.649	37.634	7.1672	-3.6102
#1	.09480	.19842	.21498	37.984	43.785	-6.9094	.56127
#2	.09970	.19377	.21049	68.606	30.163	23.091	-8.2611
#3	.09657	.19404	.21001	48.356	38.953	5.3202	-3.1308
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-07MS Operator: DLR
Run Time: 05/18/06 21:59:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	31.322	.20886	1890.2	2.1585	.04655	.02180	46.808
#1	31.208	.21092	1883.9	2.1598	.04660	.02266	46.577
#2	31.508	.20962	1903.2	2.1658	.04703	.02289	47.463
#3	31.250	.20603	1883.4	2.1500	.04604	.01986	46.385
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	15.682	.23701	.48659	.27888	35.266	7.7395	502.59
#1	15.572	.23678	.48278	.27857	35.097	7.6797	502.66
#2	15.852	.23838	.49442	.28058	35.596	7.8362	501.93
#3	15.622	.23588	.48256	.27750	35.104	7.7025	503.18
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1868.7	.85988	.50347	2.1370	.05088	-.20322	1917.4
#1	1854.5	.85541	.50150	2.0849	.04861	-.76169	1895.8
#2	1885.8	.86750	.51054	2.3038	.05652	1.0656	1953.0
#3	1865.7	.85673	.49837	2.0223	.04750	-.91355	1903.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.57349	.61944	.66395	515.25	496.26	1860.3	1872.8
#1	.56892	.61515	.66139	506.53	500.72	1850.4	1856.5
#2	.58176	.62878	.66926	537.00	484.40	1880.8	1888.4
#3	.56981	.61438	.66121	502.21	503.67	1849.8	1873.6
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-07MD Operator: DLR
Run Time: 05/18/06 22:08:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	26.281	.25959	1899.9	2.1511	.04671	.03641	46.505
#1	26.047	.25361	1872.7	2.1410	.04581	.03486	45.406
#2	26.389	.25811	1908.3	2.1553	.04672	.03581	46.676
#3	26.406	.26704	1918.6	2.1569	.04760	.03856	47.433
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	19.343	.24016	.48542	.28199	33.500	8.8574	508.18
#1	19.063	.23767	.47837	.27906	33.069	8.7001	501.06
#2	19.441	.24044	.48834	.28214	33.664	8.9139	510.20
#3	19.525	.24238	.48955	.28476	33.769	8.9583	513.27
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1880.5	.91162	.51310	1.7083	.05024	.17208	1906.8
#1	1851.3	.90118	.50399	1.6968	.04907	.03812	1874.0
#2	1886.4	.91529	.51742	1.7328	.05118	.34493	1915.6
#3	1903.7	.91839	.51790	1.6954	.05048	.13319	1930.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.56269	.66864	.71499	518.16	503.19	1871.7	1884.9
#1	.55555	.65691	.70675	516.65	493.26	1859.7	1847.1
#2	.56562	.67127	.71793	523.78	503.42	1892.2	1883.5
#3	.56690	.67775	.72030	514.05	512.88	1863.2	1923.9
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001263-07L Operator: DLR
Run Time: 05/18/06 22:17:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.5418	.00365	7.8001	.03680	.00011	.03493	.31258
#1	5.6337	-.00220	5.5263	.03697	-.00047	.03311	.21781
#2	5.5111	.00690	7.9765	.03647	.00047	.03622	.42294
#3	5.4808	.00624	9.8974	.03695	.00033	.03547	.29700
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	5.3545	.01419	.00835	.01586	8.8064	2.0357	8.1607
#1	5.4716	.01318	.00704	.01432	8.9405	2.0817	8.4202
#2	5.3230	.01518	.00783	.01729	8.7857	2.0186	8.2429
#3	5.2690	.01422	.01017	.01596	8.6929	2.0070	7.8191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.33145	.14342	.01957	.40825	.00013	-.26323	.75264
#1	.25440	.14564	.01858	.35041	-.00159	-.74633	.29808
#2	1.9747	.14301	.02066	.35473	-.00243	-.68050	-3.1181
#3	-1.2347	.14159	.01948	.51961	.00442	.63713	5.0780
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.02096	.05409	.05847	10.830	6.8259	3.0400	-1.0348
#1	.02001	.05539	.05917	18.658	3.3015	1.5248	-.39279
#2	.01946	.05363	.05807	2.3953	11.167	-1.0118	3.4559
#3	.02340	.05326	.05816	11.438	6.0097	8.6069	-6.1674
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001265-04C1 Operator: DLR
Run Time: 05/18/06 22:26:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	74.195	.77030	1489.2	2.4295	.41172	.87369	646.78
#1	73.894	.77158	1490.0	2.4245	.41134	.87086	645.06
#2	74.319	.77609	1492.9	2.4312	.41229	.87362	647.37
#3	74.373	.76324	1484.7	2.4328	.41152	.87658	647.91

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	39.008	.86268	.63758	.70007	114.50	26.905	938.78
#1	38.895	.85962	.63795	.69788	114.20	26.794	939.85
#2	39.041	.86460	.63731	.70096	114.68	26.941	939.53
#3	39.089	.86384	.63746	.70137	114.61	26.982	936.97

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1318.6	4.9899	.67682	32.304	1.7892	7.3770	1098.2
#1	1320.7	4.9765	.67380	32.110	1.7863	8.1216	1093.7
#2	1317.1	4.9970	.67812	32.274	1.7892	6.8600	1095.9
#3	1317.9	4.9964	.67852	32.528	1.7922	7.1496	1104.9

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.79458	2.9704	3.1743	957.23	929.56	1321.3	1317.2
#1	.79324	2.9664	3.1640	961.66	928.95	1325.0	1318.6
#2	.79448	2.9724	3.1788	958.58	930.01	1311.2	1320.0
#3	.79600	2.9724	3.1802	951.45	929.73	1327.8	1313.0

10100

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Method: TRACECLP Sample Name: 001265-04K1 Operator: DLR
Run Time: 05/18/06 22:35:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	1.7645	.41009	1717.6	1.9508	.04338	L.00549	43.162
#1	1.7959	.41783	1761.5	1.9645	.04454	L.00596	44.427
#2	1.7355	.40921	1698.9	1.9380	.04308	L.00550	42.561
#3	1.7622	.40324	1692.5	1.9499	.04252	L.00502	42.498
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	2.5080	.62700	2508.0	2.5080	.06270	1.2044	62.700
Low	1.4920	.37300	1492.0	1.4920	.03730	.76560	37.300

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.41166	.18048	.43592	.23234	1.0914	.02388	441.77
#1	.42320	.18449	.44535	.23765	1.1200	.02852	454.10
#2	.40650	.17874	.43070	.23008	1.1005	.02739	433.88
#3	.40529	.17819	.43172	.22928	1.0536	.01573	437.33
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High		.25080	.62700	.31350	1.2540		627.00
Low		.14920	.37300	.18650	.74600		373.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1673.3	.45181	.43240	.00096	.04382	.23503	1760.7
#1	1718.1	.46046	.44319	.06312	.04608	.62698	1790.4
#2	1653.6	.44776	.42716	-.00816	.04335	.15420	1742.9
#3	1648.1	.44719	.42687	-.05208	.04203	-.07610	1748.9
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High	2508.0	.62700	.62700		.06270		2508.0
Low	1492.0	.37300	.37300		.03730		1492.0

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.45226	.47069	.50983	438.96	443.18	1658.6	1680.6
#1	.46098	.48499	.52201	445.27	458.51	1692.1	1731.2
#2	.44863	.46605	.50511	436.56	432.54	1638.0	1661.4
#3	.44718	.46105	.50236	435.05	438.48	1645.7	1649.3
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.62700	.62700	.62700				
Low	.37300	.37300	.37300				

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Method: TRACECLP Sample Name: 001265-04B1 Operator: DLR
Run Time: 05/18/06 22:44:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.01130	.00191	.46418	.00196	.00009	.00511	.07662
#1	.01527	.00331	-.54631	.00179	.00007	.00493	.13672
#2	.01181	.00446	4.0447	.00161	.00026	.00536	.20432
#3	.00684	-.00204	-2.1058	.00249	-.00007	.00503	-.11118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	H.16607	.00399	.00031	.00170	H.14579	.01119	1.4930
#1	H.16452	.00452	-.00003	.00139	H.15216	.01515	1.7200
#2	H.16366	.00369	-.00089	.00250	H.14592	.00715	.82166
#3	H.17003	.00376	.00186	.00120	H.13931	.01127	1.9374
Errors	LC High	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-1.5785	.00113	.00304	.06024	.00142	H.53555	3.5805
#1	1.6382	.00120	.00271	.06096	.00065	H.47996	2.3597
#2	-3.4030	.00127	.00385	-.03768	-.00081	L-.30165	-.12502
#3	-2.9706	.00091	.00255	H.15744	.00443	H1.4283	8.5067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00132	H.02753	H.02932	4.5125	-.01672	.99257	-2.8760
#1	.00099	H.02785	H.03010	8.7891	-1.8144	5.3276	-.21854
#2	-.00063	H.02723	H.02916	-.84288	1.6539	-4.9147	-2.6592
#3	.00360	H.02750	H.02870	5.5914	.11037	2.5649	-5.7502
Errors	LC Pass	LC High	LC High	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001265-01 Operator: DLR
Run Time: 05/18/06 22:54:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	37.399	.00402	18.897	.23924	-.00050	.02164	.14036
#1	37.059	.00223	20.761	.23745	-.00050	.02152	.19473
#2	37.272	.00420	16.247	.23860	-.0052	.02074	.22001
#3	37.866	.00562	19.682	.24168	-.00048	.02267	.00635
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	13.372	.06294	.03056	.03858	51.376	11.008	40.474
#1	13.236	.06177	.02917	.03767	50.939	10.877	40.979
#2	13.283	.06280	.02929	.03889	51.087	10.921	39.228
#3	13.596	.06426	.03321	.03919	52.102	11.226	41.216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-2.0296	1.5896	.05246	3.0812	.00305	.25554	2.8315
#1	-1.4521	1.5763	.05171	2.9936	.00044	-.33721	-4.6038
#2	-1.5368	1.5813	.05240	3.0260	.00184	-.05494	1.6042
#3	-3.0998	1.6112	.05326	3.2240	.00688	1.1588	11.494
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.09016	.17299	.18488	46.693	37.365	-9.4484	1.6678
#1	.08780	.17151	.18396	47.069	37.934	-2.9217	-.72934
#2	.08854	.17102	.18363	42.753	37.465	-11.405	3.3850
#3	.09415	.17645	.18705	50.258	36.695	-14.019	2.3476
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

Analysis Report QC Standard 05/18/06 11:12:10 PM page 1

Method: TRACECLP Sample Name: CCVAC Operator: DLR
Run Time: 05/18/06 23:03:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.2084	-.00094	2605.8	5.3862	.50439	.00670	515.79
#1	5.2194	.00387	2611.0	5.3701	.50393	.00877	514.98
#2	5.2065	-.00548	2593.7	5.3936	.50335	.00660	513.84
#3	5.1994	-.00122	2612.7	5.3949	.50590	.00473	518.54
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	5.0000		2500.0	5.0000	.50000		500.00
Range	.52200		261.00	.52200	.05220		52.200

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	Q11.111	1.0299	2.5106	1.0084	4.9688	10.963	2553.9
#1	Q11.098	1.0283	2.5122	1.0065	4.9778	10.999	2525.1
#2	Q11.080	1.0280	2.5016	1.0093	4.9640	10.903	2550.1
#3	Q11.156	1.0334	2.5180	1.0093	4.9645	10.986	2586.7
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	1.0000	2.5000	1.0000	5.0000	10.000	2500.0
Range	1.0440	.10440	.26100	.10440	.52200	1.0440	261.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2654.0	.51396	2.4816	10.153	.50100	Q11.369	2640.6
#1	2632.5	.51330	2.4738	10.283	.50449	Q12.824	2637.5
#2	2649.9	.51288	2.4801	10.052	.49688	10.263	2625.4
#3	2679.6	.51569	2.4908	10.125	.50163	11.021	2658.9
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	2500.0	.50000	2.5000	10.000	.50000	10.000	2500.0
Range	261.00	.05220	.26100	1.0440	.05220	1.0440	261.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	2.6039	.53944	Q.57448	2591.4	2535.2	2681.3	2640.3
#1	2.6022	.54053	Q.57737	2607.9	2483.7	2697.5	2599.9
#2	2.5978	.53557	Q.57108	2559.0	2545.6	2633.9	2657.9
#3	2.6118	.54223	Q.57500	2607.4	2576.3	2712.4	2663.1
Errors	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2.5000	.50000	.50000				
Range	.26100	.05220	.05220				

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Method: TRACECLP Sample Name: CCB Operator: DLR
Run Time: 05/18/06 23:12:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.01585	.00018	.24849	.00057	.00014	.00248	.19940
#1	.01219	.00023	.32046	.00027	.00003	.00311	.25486
#2	.01660	-.00144	.54432	.00124	.00005	.00201	.14763
#3	.01877	.00175	-.11929	.00020	.00035	.00234	.19572
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.00453	.00028	.00101	.00132	.01977	.00183	.40239
#1	-.00722	-.00018	-.00044	.00086	.00636	-.00038	.83483
#2	-.00137	.00010	.00337	.00101	.02761	.00030	1.1041
#3	-.00498	.00092	.00009	.00208	.02533	.00556	-.73176
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2.4491	-.00001	.00081	.05472	.00256	H.45591	4.0568
#1	6.4532	-.00001	.00068	-.04272	-.00061	L-.24363	2.6050
#2	-.92814	.00006	.00080	H.18192	.00771	H1.5294	9.1916
#3	1.8223	-.00008	.00096	.02496	.00058	.08194	.37363
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00168	.00041	.00019	10.012	-4.4023	-1.7939	4.5586
#1	-.00030	-.00028	-.00041	.57887	.96280	-2.8866	11.111
#2	.00474	.00120	.00053	25.913	-11.300	1.1288	-1.9686
#3	.00061	.00032	.00044	3.5441	-2.8696	-3.6240	4.5334
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

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ethod: TRACECLP Sample Name: 001265-02 Operator: DLR
un Time: 05/18/06 23:21:18
Comment:
ode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	35.942	-.00181	18.514	.14220	-.00089	.01832	-.06211
#1	35.930	.00267	19.433	.14204	-.00059	.02058	.28236
#2	35.968	-.00253	18.243	.14220	-.00067	.01843	.00293
#3	35.927	-.00557	17.866	.14236	-.00140	.01595	-.47161
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	4.8156	.05691	.02668	.03061	53.866	10.498	35.862
#1	4.8194	.05776	.02672	.03197	53.943	10.523	35.763
#2	4.8088	.05714	.02589	.03083	53.853	10.484	34.408
#3	4.8185	.05583	.02744	.02904	53.803	10.488	37.416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.78943	1.0603	.05823	2.2414	.00141	-.20548	-.00895
#1	1.9126	1.0619	.05924	2.2534	.00202	.01848	-.33911
#2	2.4736	1.0599	.05850	2.1958	-.00015	-.66863	-1.7068
#3	-2.0180	1.0592	.05696	2.2750	.00237	.03370	2.0191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.09887	.15137	.16126	45.175	31.206	-.37030	1.3573
#1	.09901	.15283	.16300	44.459	31.415	2.7848	1.4645
#2	.09782	.15094	.16089	37.247	32.988	-2.2990	4.8479
#3	.09979	.15034	.15988	53.818	29.215	-1.5968	-2.2406
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

Analysis Report 22222 05/18/06 11:39:25 PM

Method: TRACECLP Sample Name: 001265-03 Operator: DLR
Run Time: 05/18/06 23:30:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	34.177	.00546	19.513	.25083	-.00038	.01771	.14683
#1	33.971	.00971	19.811	.24918	.00003	.01807	.14926
#2	34.114	-.00189	18.761	.25059	-.00080	.01711	.08912
#3	34.445	.00856	19.967	.25273	-.00037	.01795	.20211
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	6.2378	.05944	.02885	.03350	49.681	8.8170	46.513
#1	6.2026	.06079	.02781	.03410	49.471	8.7766	47.487
#2	6.2135	.05761	.02849	.03265	49.502	8.7537	46.516
#3	6.2974	.05990	.03023	.03375	50.069	8.9207	45.538
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-1.1532	1.6511	.05241	2.0288	.00184	-.18478	-1.8964
#1	-3.8381	1.6446	.05224	2.0021	.00091	-.62856	-5.8938
#2	1.0357	1.6452	.05085	1.9920	.00132	-.25902	-1.1756
#3	-.65731	1.6637	.05415	2.0921	.00329	.33325	1.3802
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.08423	.17334	.18393	52.194	43.673	-4.5760	.54611
#1	.08313	.17337	.18456	48.896	46.782	-11.947	.20445
#2	.08366	.17177	.18272	51.982	43.782	-.27233	1.6777
#3	.08589	.17487	.18451	55.703	40.455	-1.5084	-.24379
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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ethod: TRACECLP Sample Name: 001265-04 Operator: DLR
un Time: 05/18/06 23:39:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	49.643	.00483	50.580	.19652	-.00079	.02737	.53486
#1	49.356	.00545	49.644	.19567	-.00095	.02749	.51869
#2	49.794	.00205	52.710	.19688	-.00090	.02649	.37550
#3	49.778	.00699	49.387	.19701	-.00053	.02813	.71038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	139.29	.10478	.04166	.09112	92.223	94.529	64.358
#1	138.27	.10362	.04020	.09007	91.569	93.360	63.912
#2	139.75	.10439	.04217	.09091	92.440	95.074	65.741
#3	139.84	.10632	.04262	.09239	92.662	95.152	63.420
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-1.5615	2.9948	.10422	5.2402	.00169	-.08807	-.18601
#1	-2.4900	2.9728	.10233	5.1788	-.00007	-.54228	-5.7203
#2	-3.4623	3.0032	.10457	5.2796	.00337	.22973	4.5977
#3	1.2677	3.0083	.10575	5.2623	.00176	.04835	.56456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.12027	.26352	.28648	72.869	60.102	-1.5952	-1.5567
#1	.11806	.26090	.28314	71.436	60.150	-.89241	-3.3007
#2	.12194	.26444	.28821	78.636	59.294	-1.6501	-4.3803
#3	.12081	.26524	.28809	68.535	60.863	-2.2430	3.0111
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001265-04MS Operator: DLR
Run Time: 05/18/06 23:48:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	61.142	.15262	1914.7	2.1945	.04635	.03107	46.025
#1	61.044	.15420	1914.1	2.1940	.04658	.03206	45.924
#2	60.766	.14784	1898.4	2.1830	.04566	.02956	45.587
#3	61.618	.15584	1931.7	2.2064	.04682	.03158	46.565
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	66.504	.31004	.49102	.32939	98.288	51.259	508.59
#1	66.277	.31036	.48690	.32952	98.132	51.136	509.47
#2	66.071	.30691	.49030	.32564	97.605	50.852	506.70
#3	67.162	.31286	.49585	.33302	99.126	51.789	509.61
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1875.4	4.0966	.56149	5.5894	.04772	-.59678	1881.7
#1	1873.1	4.0878	.56051	5.4783	.04341	L-1.5754	1873.6
#2	1872.8	4.0714	.55746	5.6555	.05235	.49580	1864.7
#3	1880.4	4.1307	.56649	5.6346	.04741	-.71070	1906.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.59076	.71133	.77189	510.56	507.61	1867.1	1879.6
#1	.58688	.70867	.77267	492.12	518.14	1842.5	1888.4
#2	.58995	.70689	.76521	527.72	496.19	1874.5	1871.9
#3	.59546	.71844	.77780	511.85	508.49	1884.4	1878.4
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

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Method: TRACECLP Sample Name: 001265-04MD Operator: DLR
Run Time: 05/18/06 23:57:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	61.139	.15123	1903.2	2.1672	.04624	.03236	45.597
#1	60.931	.14722	1889.3	2.1679	.04562	.03059	44.961
#2	61.217	.15230	1910.0	2.1717	.04637	.03250	45.770
#3	61.269	.15417	1910.4	2.1620	.04672	.03398	46.060
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	65.958	.27893	.49094	.32298	95.456	51.860	506.81
#1	65.457	.27593	.48660	.32066	94.811	51.332	503.64
#2	66.165	.27898	.49370	.32378	95.739	52.062	509.16
#3	66.252	.28188	.49253	.32450	95.818	52.187	507.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	1849.4	4.0884	.55144	5.0833	.04873	-.19260	1895.7
#1	1837.6	4.0642	.54395	5.0751	.04839	-.25011	1873.3
#2	1858.7	4.0985	.55294	5.1169	.05022	.08612	1904.3
#3	1852.0	4.1023	.55742	5.0578	.04757	-.41383	1909.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.59620	.72479	.78123	517.64	501.39	1834.7	1856.8
#1	.59186	.71705	.77555	515.27	497.82	1820.2	1846.3
#2	.59873	.72796	.78198	526.38	500.55	1853.2	1861.4
#3	.59803	.72937	.78616	511.27	505.80	1830.8	1862.6
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

nalysis Report 05/19/06 00:15:44 AM page 1

22222

ethod: TRACECLP Sample Name: 001265-04L Operator: DLR
un Time: 05/19/06 00:06:42
Comment:
ode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	10.407	.00440	14.218	.04201	.00017	.00969	.25771
#1	10.573	.00998	14.733	.04275	.00048	.01089	.55972
#2	10.345	-.00009	8.4070	.04166	-.00017	.00823	-.16706
#3	10.303	.00330	19.515	.04163	.00020	.00996	.38049
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	50.000	50000.	50.000	10.000	20.000	10000.
Low	-.20000	-.06000	-10.000	-.05000	-.00500	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	30.242	.02332	.00912	.02099	19.861	20.011	14.489
#1	31.039	.02507	.01074	.02250	20.387	20.662	13.250
#2	30.064	.02258	.00821	.01965	19.717	19.878	15.649
#3	29.624	.02231	.00840	.02083	19.479	19.492	14.568
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	300.00	50.000	50.000	50.000	500.00	600.00	250000.
Low	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000	-3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.44180	.64627	.02379	1.0027	.00060	-.15030	.33093
#1	-2.2431	.66084	.02477	1.1050	.00375	.42716	4.9332
#2	.28932	.64247	.02343	.95666	-.00129	-.46125	-3.1482
#3	.62838	.63550	.02318	.94658	-.00066	-.41680	-.79219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	25.000	25.000	20.000	20.000	20.000	100000.
Low	-5.0000	-.01500	-.01500	-5.0000	-.01000	-1.0000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.02565	.06503	.06919	11.750	15.858	-4.0946	1.3726
#1	.02826	.06787	.07124	21.496	9.1264	-.16268	-3.2953
#2	.02404	.06470	.06878	8.3877	19.280	-5.2701	3.0570
#3	.02464	.06251	.06755	5.3662	19.169	-6.8511	4.3561
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	25.000	50.000	5.0000				
Low	-.05000	-.02000	-.02000				

Analysis Report QC Standard 05/19/06 00:24:50 AM page 1

Method: TRACECLP Sample Name: CRI Operator: DLR
Run Time: 05/19/06 00:15:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.00558	.12447	21.877	.00040	.01038	.00615	10.907
#1	.00016	.12344	21.605	.00014	.01028	.00540	10.856
#2	.00947	.12446	22.493	.00078	.01034	.00613	10.961
#3	.00709	.12551	21.533	.00028	.01052	.00693	10.905
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass
Value		.12000	20.000		.01000		10.000
Range		.06000	10.000		.00500		5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.00695	.02188	.10730	.05539	.02838	.00195	7.6417
#1	.00517	.02181	.10604	.05455	.02896	.00279	8.6069
#2	.00964	.02147	.10827	.05589	.03756	.00507	6.1636
#3	.00603	.02236	.10759	.05573	.01863	-.00201	8.1547
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.02000	.10000	.05000			6.0000
Range		.01000	.05000	.02500			3.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	8.2511	.03152	.08639	.04344	.02250	.39155	26.256
#1	8.8949	.03168	.08439	-.03624	.01958	-.16811	24.411
#2	7.8315	.03147	.08703	.12936	.02629	1.0115	Q30.810
#3	8.0268	.03143	.08776	.03720	.02161	.33126	23.548
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	10.000	.03000	.08000		.02000		20.000
Range	5.0000	.01500	.04000		.01000		10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.10642	.04288	.04502	9.6131	6.6560	5.2557	9.7367
#1	.10399	.04238	.04473	7.7249	9.0478	7.0243	9.8182
#2	.10849	.04350	.04569	19.124	-.31657	10.819	6.3259
#3	.10678	.04275	.04463	1.9903	11.237	-2.0761	13.066
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.10000	.04000	.04000				
Range	.05000	.02000	.02000				

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Analysis Report QC Standard 05/19/06 00:33:56 AM page 1

Method: TRACECLP Sample Name: ICSA Operator: DLR
Run Time: 05/19/06 00:24:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	475.05	.00180	5.0054	.00066	-.00070	-.00079	1.3140
#1	475.73	.00453	3.7085	.00083	-.00077	-.00061	1.2216
#2	475.33	-.00361	2.9599	.00035	-.00066	-.00205	1.3583
#3	474.11	.00447	8.3477	.00080	-.00067	.00027	1.3621
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value		.00000	.00000	.00000	.00000		.00000
Range		.02500	20.000	.03000	.00500		9.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	459.08	.00044	.00339	.00346	168.09	520.61	1.8649
#1	460.75	-.00011	.00436	.00280	168.42	521.81	2.1189
#2	459.38	.00147	.00198	.00387	168.06	520.59	1.6557
#3	457.12	-.00005	.00383	.00371	167.79	519.44	1.8201
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.00000	.00000	.00200			.00000
Range		.03000	.03000	.03000			9.0000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-7.9074	-.00535	.00279	.10392	.00415	.69365	11.976
#1	-6.4701	-.00524	.00300	.17328	.00583	1.1579	Q15.898
#2	-9.7333	-.00564	.00308	.03144	.00185	.08795	7.1958
#3	-7.5190	-.00518	.00231	.10704	.00478	.83516	12.834
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00400	.00200	.00000	.00000	.02000	.00000
Range	15.000	.03000	.05000	7.5000	.03000	1.2000	15.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00008	-.00263	.00072	56.519	-25.462	-.01032	-11.867
#1	.00237	-.00224	.00099	80.036	-36.839	15.117	-17.275
#2	-.00217	-.00312	.00037	40.126	-17.579	-13.758	-7.7312
#3	.00005	-.00252	.00081	49.394	-21.967	-1.3893	-10.596
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.01700	.01700				
Range	.03000	.03000	.03000				

Analysis Report QC Standard 05/19/06 00:43:01 AM page 1

Method: TRACECLP Sample Name: ICSAB Operator: DLR
Run Time: 05/19/06 00:33:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	471.41	.91385	967.82	.48636	.45817	.91775	887.76
#1	468.48	.90169	957.28	.48447	.45431	.91134	877.44
#2	471.93	.91881	970.92	.48717	.45897	.91763	890.89
#3	473.81	.92106	975.26	.48745	.46122	.92427	894.96
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		1.0000	1000.0	.50000	.50000	1.0000	1000.0
Range		.20440	204.40	.10220	.10220	.20440	204.40

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	444.29	.45756	.42109	.48397	164.07	502.33	879.63
#1	440.47	.45355	.41638	.48090	162.65	496.75	868.22
#2	445.27	.45888	.42378	.48493	164.34	503.46	881.96
#3	447.14	.46026	.42310	.48607	165.22	506.78	888.71
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value		.50000	.50000	.50000			1000.0
Range		.10220	.10220	.10220			204.40

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	965.02	.44765	.82414	.00672	.96838	1.0194	946.16
#1	945.22	.44271	.81566	.00624	.96214	.86911	937.41
#2	970.58	.44876	.82511	.07032	.97075	1.7657	950.62
#3	979.25	.45148	.83166	-.05640	.97224	.42348	950.45
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	1000.0	.50000	1.0000		1.0000		1000.0
Range	204.40	.10220	.20440		.20440		204.40

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.46885	.85068	.99381	917.98	860.45	974.26	960.38
#1	.46444	.84028	.98703	903.95	850.35	963.60	936.02
#2	.47158	.85394	.99486	940.56	852.66	986.16	962.78
#3	.47052	.85781	.99955	909.43	878.35	973.02	982.35
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.50000	1.0000	1.0000				
Range	.10220	.20440	.20440				

Analysis Report QC Standard 05/19/06 00:52:07 AM page 1

Method: TRACECLP Sample Name: CCVAC Operator: DLR
Run Time: 05/19/06 00:43:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	5.1996	-.00561	2633.6	5.3334	.51068	.00607	526.88
#1	5.1922	-.00519	2624.6	5.3234	.50854	.00674	522.71
#2	5.2150	.00142	2649.6	5.3241	.51350	.00868	530.34
#3	5.1915	-.01306	2626.4	5.3528	.51002	.00279	527.60
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	5.0000		2500.0	5.0000	.50000		500.00
Range	.52200		261.00	.52200	.05220		52.200

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	Q11.264	1.0428	2.5346	1.0200	5.0174	Q11.172	2586.8
#1	Q11.207	1.0390	2.5216	1.0182	5.0149	Q11.101	2581.0
#2	Q11.317	1.0478	2.5463	1.0222	5.0718	Q11.249	2585.3
#3	Q11.268	1.0415	2.5359	1.0198	4.9656	Q11.165	2594.0
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	10.000	1.0000	2.5000	1.0000	5.0000	10.000	2500.0
Range	1.0440	.10440	.26100	.10440	.52200	1.0440	261.00

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	2703.0	.51913	2.5527	10.122	.50456	11.011	2683.4
#1	2689.2	.51704	2.5328	10.065	.50079	10.402	2671.4
#2	2711.2	.52105	2.5736	10.206	.50861	Q11.898	2693.3
#3	2708.5	.51931	2.5517	10.095	.50428	10.734	2685.6
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2500.0	.50000	2.5000	10.000	.50000	10.000	2500.0
Range	261.00	.05220	.26100	1.0440	.05220	1.0440	261.00

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	2.6314	.53084	Q.56307	2612.9	2573.7	2710.8	2699.1
#1	2.6181	.52726	Q.56030	2606.8	2568.1	2689.6	2688.9
#2	2.6414	.53489	Q.56562	2627.7	2564.1	2732.5	2700.6
#3	2.6347	.53037	Q.56329	2604.2	2588.9	2710.2	2707.7
Errors	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2.5000	.50000	.50000				
Range	.26100	.05220	.05220				

J.B. 6-8-06
10115

Analysis Report Blank Sample 05/19/06 01:01:13 AM page 1

Method: TRACECLP Sample Name: CCB Operator: DLR
Run Time: 05/19/06 00:52:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	B	CD
Units	ppm	ppm	ppb	ppm	ppm	ppm	ppb
Avge	.04090	.00270	2.4983	.00060	.00025	.00216	.10017
#1	.04010	.00245	3.3610	.00051	.00021	.00174	.13893
#2	.04266	.00434	4.3309	.00035	.00055	.00217	.06062
#3	.03994	.00131	-.19693	.00095	-.00002	.00257	.10096
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.03000	10.000	.05000	.05000	.01000	5.0000
Low	-.10000	-.03000	-10.000	-.05000	-.05000	-.01000	-5.0000

Elem	CA	CR	CO	CU	FE	MG	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppb
Avge	.01073	.00074	.00102	.00155	.02273	.00951	.63193
#1	.01308	.00030	.00073	.00056	.01771	.00875	.29513
#2	.00827	.00182	-.00033	.00345	.03675	.01378	.67821
#3	.01084	.00009	.00266	.00063	.01374	.00601	.92246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.02500	.10000	.10000	50.000
Low	-.10000	-.05000	-.05000	-.02500	-.10000	-.10000	-50.000

Elem	SE	MN	NI	K	AG	NA	TL
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Avge	-.67259	.00003	.00031	.04920	.00240	H.40291	1.8650
#1	1.3785	-.00001	-.00022	.01560	.00072	H.11821	-2.7272
#2	-2.8108	.00017	.00165	.01056	.00093	H.11100	-.43259
#3	-.58549	-.00005	-.00050	H.12144	.00554	H.97954	8.7547
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	10.000	.02000	.05000	.10000	.03000	.10000	10.000
Low	-10.000	-.02000	-.05000	-.10000	-.03000	-.10000	-10.000

Elem	V	ZN1	ZN2	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm				
Avge	.00169	.00004	-.00059	5.7029	-1.9035	-4.7667	1.3624
#1	.00087	-.00002	-.00070	.81866	.03336	-7.7141	5.9127
#2	.00070	-.00013	-.00019	-4.5903	3.3124	-11.841	1.6923
#3	.00348	.00027	-.00088	20.880	-9.0563	5.2550	-3.5177
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.02000				
Low	-.05000	-.02000	-.02000				

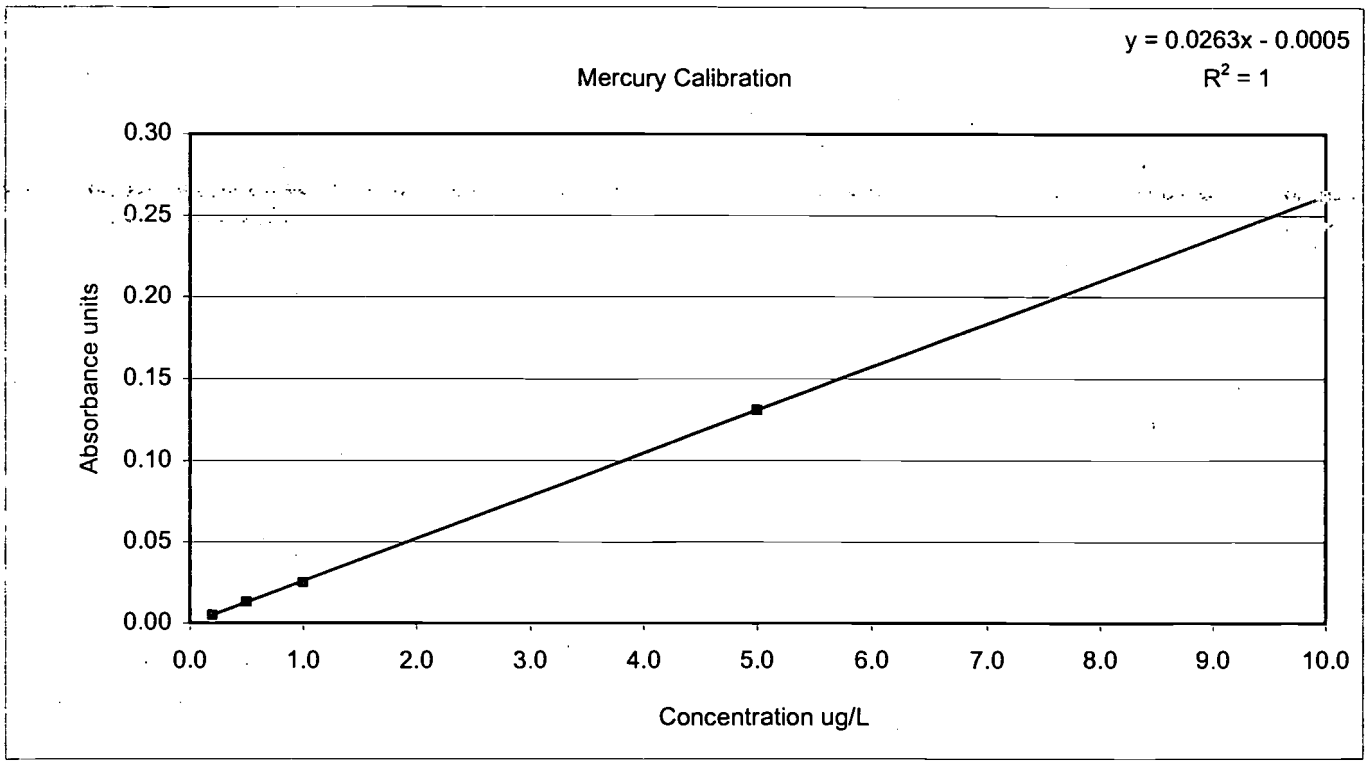
COLD VAPOR DATA

C1717
C452306

Mercury Calibration Summary

Concentration (ug/L)	Absorbance
0.2	**0.005**
0.5	**0.013**
1.0	**0.025**
5.0	**0.131**
10.0	**0.262**

Calibration Date: **15-May-06**



By signing or initialing below, the analyst and reviewer are attesting that (mark all that apply):

- [x] Calibration valid (r-squared > than 0.990).
- [x] ICV/CCV recovery valid (RMA 90-110%, other 80-120%) unless otherwise noted on the raw data.
- [x] CRA recovery (if required) valid.
- [x] ICB/CCB/Pblk results valid unless otherwise noted on the raw data.
- [x] LCS recovery valid (80-120%) for all reported samples unless otherwise noted on the raw data.
- [x] MS/MSD recovery valid for all reported samples unless otherwise noted.
- [ ]

Analyzed By: [signature] Date: 5-15-06

Approved By: [signature] Date: 5/16/06

Rev Date: 19 January 2005

AA20 PLUS

Varian SpectrAA 10/20 System Report

Std Pg 8 NB 2548
Std Pg 92 NB2238

Reportable:
2578-2, 2DUP, 2MS
2577-1, 1DUP, 1MS
1261-1, 1MS, 1MSD 2-6
1263-1-6, 7, 7MS, 7MSD
1262-1-10, 10MS, 10MSD
8707-1, 1MS, 1MSDTCLP

OPERATOR 0074
DATE
BATCH NO.

PROGRAM 2 Hg

INSTRUMENT MODE	ABSORBANCE
CALIBRATION MODE	CONCENTRATION
MEASUREMENT MODE	INTEGRATION
LAMP POSITION	1
LAMP CURRENT (mA)	4
SLIT WIDTH (nm)	0.5
WAVELENGTH (nm)	253.7
FLAME	AIR ONLY
SAMPLE INTRODUCTION	MANUAL
DELAY TIME	0
TIME CONSTANT	0.05
MEASUREMENT TIME (sec)	2.0
REPLICATES	4
BACKGROUND CORRECTION	ON
AIR FLOW	0.00

✓ NW 5/16/06

F=1.0000

	SAMPLE	CONC (ug/l)	%RSD	MEAN ABS	READINGS				Time
	BLANK	S 0.00		0.000	0.000	-0.000	-0.000	0.000	1501
	STANDARD 1	S 0.20	6.5	0.005	0.004	0.004	0.005	0.005	1502
	STANDARD 2	S 0.50	0.7	0.013	0.013	0.013	0.013	0.012	1503
	STANDARD 3	S 1.00	0.6	0.025	0.025	0.025	0.026	0.025	1504
	STANDARD 4	S 5.00	0.1	0.131	0.131	0.131	0.131	0.131	1505
	STANDARD 5	S 10.00	0.2	0.262	0.262	0.262	0.262	0.262	1506
		ICV 5.95	0.2	0.156	0.156	0.156	0.156	0.156	1507
		ICB -0.01	99.9	-0.000	0.000	-0.000	-0.001	-0.000	1508
		CRA 0.19	4.4	0.004	0.005	0.004	0.004	0.004	1509
		CCV 3.99	0.1	0.104	0.104	0.104	0.104	0.104	1510
		CCB -0.03	15.8	-0.001	-0.001	-0.001	-0.001	-0.001	1511
222222	3224 LCS	5.11	0.1	0.134	0.134	0.134	0.134	0.134	1512
222222	3224 PBLK	-0.10	0.0	-0.002	-0.002	-0.002	-0.002	-0.002	1513
222222	2578.2	7.59	0.1	0.199	0.199	0.199	0.199	0.199	1514
222222	2578.2 DUP	7.74	0.1	0.203	0.203	0.203	0.203	0.203	1516
222222	2578.2 MS	8.84	0.1	0.232	0.231	0.232	0.232	0.232	1517
		CCV 4.00	0.6	0.104	0.105	0.105	0.104	0.104	1518
		CCB -0.04	99.9	-0.001	0.001	-0.001	-0.002	-0.002	1519
222222	3222 LCS solid	7.96	0.1	0.209	0.209	0.209	0.209	0.209	1520
222222	3222 PBLK (Do not report)	1.26	57.8	0.032	0.055	0.037	0.023	0.013	1521
222222	3222 PBLK Report	-0.02	83.0	-0.001	0.000	-0.000	-0.001	-0.001	1522
222222	2577.1	OVER	7.1	0.985	0.894	0.971	1.023	1.054	1523
222222	2577.1 DUP	OVER	0.1	1.097	1.096	1.096	1.098	1.098	1524
222222	2577.1 MS	OVER	0.1	1.079	1.080	1.079	1.080	1.079	1525
		CCV 3.87	0.4	0.101	0.101	0.101	0.101	0.101	1526
		CCB -0.06	15.0	-0.001	-0.001	-0.001	-0.001	-0.002	1527

DK Robb 5-15-06

SAMPLE	CONC (ug/l)	%RSD	MEAN ABS	READINGS				Time
222222 ~~3220~~ 2577-1	7.83 5X	0.1	0.205	0.206	0.205	0.205	0.205	1528
222222 2577.1 DUP	7.53 5X	0.1	0.197	0.197	0.197	0.197	0.197	1529
222222 2577.1 MS	7.53 5X	0.2	0.197	0.197	0.197	0.198	0.198	1530
CCV	3.87	0.3	0.101	0.101	0.101	0.101	0.101	1531
CCB	-0.04	25.2	-0.001	-0.001	-0.001	-0.001	-0.001	1532
222222 3220 LCS Solid	7.67	0.5	0.201	0.200	0.201	0.201	0.202	1533
222222 3220 PBLK	-0.04	25.4	-0.001	-0.001	-0.001	-0.001	-0.001	1534
222222 1261.1	-0.03	71.7	-0.001	-0.000	-0.001	-0.001	-0.000	1535
222222 1261.1 MS	1.08	0.8	0.027	0.027	0.027	0.028	0.028	1536
222222 1261.1 MSD	1.07	0.9	0.027	0.027	0.027	0.027	0.027	1537
222222 1261.2	0.00	99.9	0.000	0.000	-0.000	-0.000	0.000	1538
222222 1261.3	0.16	3.4	0.004	0.003	0.004	0.004	0.004	1539
222222 1261.4	-0.01	99.9	-0.000	0.000	0.000	-0.000	-0.001	1540
222222 1261.5	0.05	42.1	0.001	0.000	0.001	0.001	0.002	1541
222222 1261.6	0.06	21.3	0.001	0.002	0.001	0.002	0.001	1542
CCV	4.01	0.1	0.105	0.105	0.105	0.105	0.105	1543
CCB	0.02	84.0	0.000	0.001	0.000	0.000	0.000	1544
LCSS 3221 LCS Solid	7.27	0.2	0.191	0.190	0.191	0.191	0.191	1545
PBS 3221 PBLK	0.01	99.9	0.000	0.001	0.000	-0.000	0.000	1546
LQ3286 1263.1	0.02	16.3	0.000	0.000	0.000	0.000	0.000	1547
LQ3287 1263.2	0.01	0.0	0.000	0.000	0.000	0.000	0.000	1548
LQ3288 1263.3	-0.00	99.9	-0.000	-0.000	0.000	-0.000	0.000	1549
LQ3289 1263.4	0.02	70.6	0.000	0.000	0.000	0.000	0.001	1550
LQ3290 1263.5	0.72	1.9	0.018	0.018	0.018	0.018	0.018	1551
LQ3303 1263.6	0.02	58.3	0.000	0.001	0.000	0.000	0.000	1552
LQ3304 1263.7	0.03	20.6	0.001	0.001	0.001	0.001	0.001	1553
LQ3304S 1263.7 MS	1.05	0.8	0.027	0.027	0.027	0.027	0.027	1554
CCV	3.99	0.3	0.104	0.104	0.104	0.104	0.104	1555
CCB	0.01	42.1	0.000	0.000	0.000	0.000	0.000	1556
LQ3304SD 1263.7 MSD	1.04	1.1	0.026	0.026	0.026	0.026	0.027	1557
CCV	3.95	0.3	0.103	0.103	0.103	0.103	0.103	1558
CCB	0.04	87.4	0.001	0.002	0.001	0.000	0.001	1559
3223 LCS	5.12	0.2	0.134	0.134	0.134	0.134	0.135	1600
3223 PBLK	-0.02	57.9	-0.000	-0.001	-0.000	-0.001	-0.000	1601
1262.1	0.39	2.9	0.009	0.009	0.009	0.010	0.009	1602
1262.2	0.03	11.1	0.001	0.001	0.001	0.001	0.001	1603
1262.3	0.01	18.4	0.000	0.000	0.000	0.000	0.000	1604
1262.4	-0.02	69.5	-0.001	-0.001	-0.000	-0.001	-0.000	1605
1262.5	0.22	4.3	0.005	0.005	0.005	0.005	0.005	1606
1262.6	0.01	99.9	0.000	0.000	0.000	-0.000	0.000	1607
1262.7	0.01	67.5	0.000	0.000	0.000	0.000	0.001	1608
1262.8	-0.01	99.9	-0.000	-0.000	-0.000	-0.000	0.000	1609
CCV	3.94	0.2	0.103	0.103	0.102	0.103	0.103	1610
CCB	0.04	69.6	0.001	0.002	0.001	0.001	0.000	1611
1262.9	0.36	4.6	0.009	0.008	0.008	0.009	0.009	1612
1262.10	0.00	99.9	0.000	-0.000	0.000	0.000	-0.000	1613
1262.10 MS	1.05	0.7	0.027	0.026	0.027	0.026	0.027	1614
1262.10 MSD	1.04	0.4	0.026	0.026	0.026	0.027	0.027	1615
CCV	3.91	0.2	0.102	0.102	0.102	0.102	0.102	1616
CCB	0.04	64.7	0.001	0.002	0.001	0.001	0.000	1617
3225 LCS	5.01	0.2	0.132	0.131	0.132	0.132	0.131	
3225 PBLK (TCLP)	0.05	38.5	0.001	0.002	0.001	0.001	0.001	
8707.1 TCLP	0.02	26.9	0.001	0.000	0.000	0.001	0.001	
8707.1 TCLP MS	10.19 OVER	0.2	0.267	0.266	0.267	0.267	0.267	
8707.1 TCLP MSD	10.01 OVER	0.1	0.262	0.262	0.262	0.262	0.262	
8707.1 TCLP MS	4.72 2X	1.9	0.124	0.121	0.124	0.125	0.126	
8707.1 TCLP MSD	4.70 2X	0.2	0.123	0.123	0.123	0.123	0.123	

DZ Pa 5-15-06

OTHER INORGANIC DATA

PROJECT Total Solids #160.3

Continued From Page

Sample#	Tare#	Tare wt(g)	Sample+Tare wt(g)	105° wt (g)	% TS
Blank	1	1.01	6.57	1.01	<1.0
1263-1	2	1.01	6.86	6.47	93.3
-2	3	1.01	6.44	5.95	91.0
-3	4	1.02	6.49	5.98	90.7
-4	5	1.01	6.80	6.27	90.8
-5	6	1.01	6.63	5.99	88.6
-6	7	1.01	6.55	5.91	88.4
-7	8	1.01	6.61	5.95	88.2 } 1.60% RPD
-7dup	9	1.01	6.61	5.87	86.8
1265-1	10	1.01	6.84	6.24	89.7
-2	11	1.01	7.10	6.39	88.3
-3	12	1.01	6.38	6.08	94.4
-4	13	1.01	6.41	6.01	92.6 } 0.65% RPD
-4dup	14	1.00	6.42	6.05	93.2
128532-1	15	1.01	6.84	2.90	32.4
-2	16	1.00	6.84	2.84	31.5 ~~34.5~~

JHMB 5-17-06

In 105° oven @ 1537 hrs on 5-16-06.
Out 105° oven @ 0942 hrs on 5-17-06.

Calculations: $\frac{105°\,wt(g) - Tare\,wt(g)}{Sample + Tare\,wt(g) - Tare\,wt(g)} \times 100 = \%\ TS$

$1263\text{-}7 = \frac{5.95 - 1.01}{6.61 - 1.01} \times 100 = 88.2\%\ TS$

$\%\ RPD = \frac{Diff\ in\ \%}{Avg\ of\ \%} \times 100$ $\quad 1263\text{-}7 = \frac{(88.2 - 86.8)}{(88.2 + 86.8)/2} \times 100 = 1.60\%\ RPD$

Continued on Page

Read and Understood By

J.M. Smith 5-16-06
Signed Date

J.M. Smith 5-17-06
Signed Date

5/17/06 10122
Signed Date

DLR 5-17-06

ARDL, INC

METALS PREPARATION LOG - ICP

Contract: IDEM

Batch: ~~5113~~ 5112 DJR 5-17-06

Method: SW846/3050B

Date: 5/17/06

Matrix: Soil

Analyst: DLR

ARDL Sample No.	Initial Weight	Final Volume
Prep Blank	1.00g	100 mls
LCSP	1.00g	100 mls
Spike Blank P	1.00g	100 mls
1263-1	1.00g	100 mls
1263-2	1.00g	100 mls
1263-3	1.00g	100 mls
1263-4	1.00g	100 mls
1263-5	1.00g	100 mls
1263-6	1.00g	100 mls
1263-7	1.00g	100 mls
1263-7 MS	1.00g	100 mls
1263-7 MSD	1.00g	100 mls

Samples relinquished by: DLR

Samples received by: DLR

QC Solution	Mls Added	Solution used	Reference (NB/Page)	Spk\Witness
Spike P	1.00	ICP Spex Spike One	NB. 2424 P. 51	DLR \ JH
Spike Blank P	1.00	ICP Spex Spike One	NB. 2424 P. 51	DLR \ JH
LCS P	1.00g	ERA LOT D~~044540~~ 475540 DJR 5-17-06	NB 2424 P. 68	DLR \ JH

Nitric Acid Lot #	054534	Supplier: Fisher
Hydrogen Peroxide,30%	054937	Supplier: Fisher
Hydrochloric Acid Lot #	054954	Supplier: Fisher
50% Nitric Acid		NB. 2332 P. 82

Revision date: 2/10/03

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
DLR	5-17-06	JS 5/17/06	

5-15-06

ARDL, INC

METALS PREPARATION LOG - HG

Contract: IDEM | Batch: 3221 | SW846/7470

Date: 5/15/06 | Matrix: Soil | Analyst: DLR

ARDL Sample No.	Initial Weight	Final Volume
Std Blank	100 mls	100 mls
0.2 ppb	100 mls	100 mls
0.5 ppb	100 mls	100 mls
1.0 ppb	100 mls	100 mls
5.0 ppb	100 mls	100 mls
10.0 ppb	100 mls	100 mls
ICV 6.0 ppb	100 mls	100 mls
CCV 4.0 ppb	100 mls	100 mls
CRA 0.2 ppb	100 mls	100 mls
PBS	~~0.250g~~ 100 mls	100 mls
LCSS	0.250 g DLR 5-15-06	100 mls
1263-1	0.250g	100 mls
1263-2	0.250g	100 mls
1263-3	0.253g	100 mls
1263-4	0.250g	100 mls
1263-5	0.253g	100 mls
1263-6	0.250g	100 mls
1263-7	0.250g	100 mls
1263-7 MS	0.250g	100 mls
1263-7 MSD	0.250g	100 mls

Samples relinquished by: DLR

Samples received by: DLR

QC Solution	Mls Added	Solution used	Reference (NB/Page)	Spk\Witness
Spike	1.00	100 ppb Hg Spike	NB. 2548 P. 8	DLR \ [illegible]
LCS	~~1.00 g~~ 0.250g DLR 5-15-06	ERA LOT D 047540	NB. 2540 P. 2	DLR \ [illegible]

Nitric Acid	Fisher Lot # 054534	KMNO4	Fisher Lot # 040846
Sulfuric Acid	Fisher Lot # 054314	K2S2O8	Fisher Lot # 041401
NH2OH.HCL	NB 2486 P. 100	SnCl2	NB 2548 P. 8

Revision date: 2/10/03

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Read and Understood By

Signed	Date	Signed	Date
DLR	5-15-06	[illegible]	5/16/06

10124

COLOR/CLARITY (SOIL)

	BEFORE				AFTER	
SAMPLE #	COLOR	TEXTURE	ARTIFACTS (SOIL)	CLARITY (WATER)	COLOR	CLARITY
1263-1	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-2	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-3	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-4	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-5	BLACK	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-6	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR
1263-7	BROWN	MEDIUM	ROCKS, PEBBLES		YELLOW	CLEAR