

Data Package

Contract Lab Program Data Package
for
DERS/DuPont Env

TYPE IV INORGANICS DATA PACKAGE

DuPont Fort Madison GW Monitoring-1996 Annual
Water Samples
Collected on 09/19/96 - 09/20/96
Sample No. 2585276-2585279, 2585281-2585285

DATE RECEIVED	
OCT 17 1996	
SAM _____	BY _____
CED _____	BY _____

PA Cert. # 36-037
NY Cert. # 10670
NJ Cert. # 77011

Prepared by *Terrill Miller*
Quality Assurance Review *Susan B. Shorter*
Date 10/14/96
Delivery Date 10-17-96



Lancaster Laboratories
A Thermo Analytical Laboratory

N36821



**Sample Reference List for SDG # FMD03
with a Package Type of IV-I**

Lab Sample Number	Sample Code	Client Sample Description
-----	-----	-----
2585276	MRA1S	FMN-MRA-1S Water Sample
2585277	MRA1D	FMN-MRA-1D Water Sample
2585278	MRA2D	FMN-MRA-2D Water Sample
2585279	MRA2S	FMN-MRA-2S Unspiked Water Sample
2585281	MRA4S	FMN-MRA-4S Water Sample
2585282	MRA3S	FMN-MRA-3S Water Sample
2585283	MRA3D	FMN-MRA-3D Water Sample
2585284	MR3DD	FMN-MRA-3D-DUP Water Sample
2585285	MRAFB	FMN-MRA-FBLK-2 Field Blank Water Sample

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Shipping Address:
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Environmental • Foods • Pharmaceuticals



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Case Narrative Conformance/Nonconformance Summary

CASE NARRATIVE FOR INORGANICS

Laboratory Name: Lancaster Laboratories

SDG Number: FMD01

Date Received: 09/19/96

Calibration Standards:

Instrument calibration standards are prepared monthly from stock solutions purchased from Spex Industries Inc., JT Baker, Aldrich Chemical, VWR Scientific, EM Science, or VHG Laboratories.

Case Narrative reviewed and approved by:

Diane L. Lockard Date 10/7/96
Diane L. Lockard, Specialist I Coordinator
Inorganic Data Packages

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Contract: _____

SDG No.: FMD03

Lab Sample ID.

2585285

Yes/No YES

Yes/No YES

Yes/No NO

ILMO4.0

Page: 14

LANCASTER LABORATORIES

Run Name: 9627404T61

INSTRUMENT ID: 05478

Tube: 13 CRI

09/30/96

13:37

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.02040	1.997	0.02038	0.02082	0.02001			
Al	0.03678	6.646	0.03781	0.03853	0.03398			
As	0.02052	4.308	0.02148	0.02037	0.01973			
Ba	0.00022	29.61	0.00024	0.00026	0.00014			
Be	0.01014	2.450	0.01001	0.00999	0.01043			
Ca	0.10035	4.927	0.10469	0.10138	0.09497			
Cd	0.00976	0.459	0.00971	0.00978	0.00979			
Co	0.09906	0.489	0.09917	0.09949	0.09854			
Cr	0.02040	1.430	0.02071	0.02014	0.02035			
Cu	0.04950	0.171	0.04947	0.04943	0.04959			
Fe	0.04062	24.34	0.05187	0.03328	0.03673			
K	0.06131	0.810	0.06109	0.06096	0.06188			
Mg	0.03943	4.722	0.04073	0.04025	0.03729			
Mn	0.03006	0.027	0.03006	0.03005	0.03007			
Mo	0.00029	373.0	0.00055	0.00125	-0.00091			
Na	0.16858	22.03	0.13544	0.16157	0.20874			
Ni	0.08089	1.305	0.08126	0.08172	0.07970			
Pb	0.00644	10.76	0.00608	0.00724	0.00600			
Sb	0.12061	0.708	0.11980	0.12053	0.12150			
Se	0.01011	4.345	0.00977	0.01060	0.00995			
Sn	-0.00075	164.9	-0.00186	0.00058	-0.00098			
Ti	0.00015	95.85	0.00027	0.00018	0.00000			
Tl	0.02060	10.04	0.02071	0.01848	0.02262			
V	0.10535	0.234	0.10508	0.10540	0.10557			
Y	171904.00000	0.115	171827.00000	171755.00000	172130.00000			
Zn	0.04059	0.033	0.04058	0.04060	0.04061			

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LANCASTER LABORATORIES

Run Name: 9627404T61

INSTRUMENT ID: 05478

Tube: 14 ICSA

09/30/96

13:41

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD	REDIG
			#1	#2			
Ag	0.00033	40.42	0.00017	0.00043	0.00039		
Al	478.94635	0.317	477.91204	478.23693	480.69006		
As	-0.00254	59.59	-0.00101	-0.00405	-0.00257		
Ba	0.00789	0.108	0.00790	0.00790	0.00788		
Be	0.00076	15.77	0.00063	0.00086	0.00080		
Ca	463.73730	0.411	461.54449	464.66278	465.00466		
Cd	0.01032	1.140	0.01046	0.01024	0.01026		
Co	0.00002	1792.	0.00025	-0.00043	0.00024		
Cr	0.00592	6.544	0.00613	0.00616	0.00547		
Cu	-0.00218	13.25	-0.00226	-0.00186	-0.00242		
Fe	187.80107	0.262	187.27685	187.86883	188.25753		
K	0.05965	13.74	0.05966	0.06785	0.05145		
Mg	489.27246	0.246	488.23983	488.98254	490.59497		
Mn	0.00390	1.693	0.00395	0.00393	0.00382		
Mo	-0.00006	1946.	0.00138	-0.00031	-0.00127		
Na	0.20265	26.89	0.20792	0.25433	0.14570		
Ni	0.00473	2.737	0.00463	0.00470	0.00488		
Pb	0.00609	25.96	0.00720	0.00428	0.00679		
Sb	-0.00192	58.87	-0.00303	-0.00197	-0.00076		
Se	-0.00606	37.07	-0.00852	-0.00411	-0.00556		
Sn	0.00016	684.5	0.00006	0.00131	-0.00089		
Ti	-0.00088	4.098	-0.00086	-0.00092	-0.00086		
Tl	-0.00181	289.6	0.00283	-0.00751	-0.00076		
V	-0.01483	2.407	-0.01467	-0.01457	-0.01523		
Y	160381.67187	0.091	160468.00000	160464.00000	160213.00000		
Zn	0.00982	0.342	0.00984	0.00978	0.00983		

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LANCASTER LABORATORIES

Run Name: 9627404T61

INSTRUMENT ID: 05478

Tube: 15 ICSAB

09/30/96

13:46

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.20628	1.199	0.20342	0.20761	0.20779			
Al	466.42150	1.429	458.78042	469.41033	471.07373			
As	0.09650	2.968	0.09484	0.09485	0.09981			
Ba	0.50324	1.153	0.49668	0.50534	0.50771			
Be	0.46731	1.263	0.46051	0.47114	0.47028			
Ca	451.99804	1.462	444.45434	456.77902	454.76077			
Cd	0.91704	1.179	0.90459	0.92420	0.92232			
Co	0.45771	1.478	0.44992	0.46218	0.46103			
Cr	0.48501	1.176	0.47853	0.48926	0.48725			
Cu	0.52715	1.331	0.51933	0.52920	0.53291			
Fe	182.71130	1.674	179.18077	184.57627	184.37687			
K	0.05086	6.444	0.05005	0.05447	0.04807			
Mg	477.28186	1.486	469.12884	480.66183	482.05487			
Mn	0.47230	1.185	0.46584	0.47575	0.47532			
Mo	0.00055	95.12	0.00074	0.00094	-0.00004			
Na	0.17470	2.039	0.17852	0.17410	0.17147			
Ni	0.92069	1.327	0.90671	0.92935	0.92601			
Pb	0.05338	1.922	0.05249	0.05450	0.05314			
Sb	0.60465	0.948	0.59847	0.60981	0.60567			
Se	0.04346	2.074	0.04244	0.04381	0.04414			
Sn	-0.00048	83.82	-0.00026	-0.00023	-0.00095			
Ti	-0.00103	1.559	-0.00101	-0.00103	-0.00104			
Tl	0.09101	8.436	0.08595	0.09984	0.08722			
V	0.48606	1.320	0.47865	0.48996	0.48957			
Y	163133.00000	0.761	164559.00000	162547.00000	162293.00000			
Zn	0.96563	1.297	0.95117	0.97260	0.97313			

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LANCASTER LABORATORIES

Run Name: 9627404T61

INSTRUMENT ID: 05478

Tube: 16 CCV

09/30/96 13:50

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD REDIG	
			#1	#2	#3		
Ag	0.51628	4.336	0.50312	0.50358	0.54213	_____	_____
Al	24.10473	4.053	23.59986	23.48336	25.23096	_____	_____
As	0.51862	4.397	0.50845	0.50267	0.54475	_____	_____
Ba	0.50310	4.596	0.48942	0.49008	0.52980	_____	_____
Be	0.51537	4.460	0.50209	0.50212	0.54192	_____	_____
Ca	24.44085	4.230	23.91460	23.77580	25.63216	_____	_____
Cd	0.51001	4.593	0.49748	0.49551	0.53704	_____	_____
Co	0.49901	4.342	0.48644	0.48656	0.52403	_____	_____
Cr	0.52233	4.664	0.50777	0.50876	0.55046	_____	_____
Cu	0.50869	4.340	0.49531	0.49658	0.53418	_____	_____
Fe	23.43742	4.496	22.84784	22.81022	24.65421	_____	_____
K	25.08101	3.728	24.56129	24.52130	26.16044	_____	_____
Mg	24.14282	4.103	23.60389	23.53836	25.28622	_____	_____
Mn	0.51064	4.523	0.49732	0.49729	0.53732	_____	_____
Mo	0.52987	4.710	0.51198	0.51925	0.55838	_____	_____
Na	24.62598	3.821	24.04052	24.12574	25.71166	_____	_____
Ni	0.51286	4.701	0.49860	0.49927	0.54070	_____	_____
Pb	0.49955	3.834	0.48959	0.48743	0.52163	_____	_____
Sb	0.51550	4.017	0.50158	0.50561	0.53930	_____	_____
Se	0.50621	3.688	0.49494	0.49594	0.52776	_____	_____
Sn	0.52684	4.176	0.51561	0.51271	0.55219	_____	_____
Ti	0.53398	4.579	0.51966	0.52005	0.56221	_____	_____
Tl	0.51040	4.563	0.49826	0.49568	0.53725	_____	_____
V	0.52755	4.561	0.51291	0.51442	0.55533	_____	_____
Y	167864.67187	3.688	171626.00000	171249.00000	160719.00000	_____	_____
Zn	0.51505	4.323	0.50239	0.50200	0.54077	_____	_____

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LANCASTER LABORATORIES

Run Name: 9627404T61

INSTRUMENT ID: 05478

Tube: 17 CCB

09/30/96

13:55

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00079	50.04	0.00100	0.00104	0.00033			
Al	0.10997	18.01	0.12973	0.11007	0.09011			
As	0.00177	26.97	0.00226	0.00173	0.00131			
Ba	0.00051	31.39	0.00066	0.00054	0.00034			
Be	0.00065	23.82	0.00079	0.00068	0.00048			
Ca	0.17404	15.16	0.20008	0.17473	0.14732			
Cd	0.00040	43.08	0.00036	0.00059	0.00025			
Co	0.00107	34.33	0.00148	0.00095	0.00077			
Cr	0.00078	25.41	0.00083	0.00096	0.00056			
Cu	-0.00059	55.65	-0.00033	-0.00049	-0.00097			
Fe	0.09262	18.04	0.10623	0.09766	0.07397			
K	0.07428	13.38	0.08524	0.07179	0.06582			
Mg	0.11816	22.51	0.14344	0.12063	0.09040			
Mn	0.00025	46.13	0.00037	0.00024	0.00014			
Mo	0.00197	51.68	0.00302	0.00191	0.00098			
Na	0.18591	19.80	0.14543	0.19486	0.21742			
Ni	-0.00017	142.0	0.00004	-0.00011	-0.00043			
Pb	0.00095	100.0	0.00164	0.00134	-0.00013			
Sb	0.00322	59.66	0.00484	0.00372	0.00109			
Se	-0.00030	262.7	0.00061	-0.00067	-0.00086			
Sn	0.00206	43.83	0.00285	0.00107	0.00225			
Ti	0.00073	23.65	0.00089	0.00074	0.00055			
Tl	0.00435	71.19	0.00405	0.00758	0.00141			
V	0.00038	44.62	0.00056	0.00021	0.00038			
Y	171205.32812	0.179	170850.00000	171384.00000	171382.00000			
Zn	0.00093	10.58	0.00098	0.00099	0.00081			

Data Reviewed by:

93096

Data Verified by:

10-1-96

158

Furnace Data

153

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Slaughterhouse 788*

DATA VERIFIED BY: *EBT 889*

DATA FILE NAME: AS00010LRAT
RUN NAME: 9626901F04

INSTRUMENT NO: 04724
BKG CORR: BZ

ANALYST: 114

ELEMENT: AS

154

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9626901F04
PAGE: 1
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 1 09/24/96 21:09
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.1600 11.8 -0.001 -0.002 -0.001

TUBE: 2 09/24/96 21:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S10 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.7900 5.4 0.027 0.026 0.029

TUBE: 3 09/24/96 21:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S20 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.0200 7.3 0.057 0.054 0.060

TUBE: 4 09/24/96 21:21
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S40 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
43.2800 5.8 0.124 0.129 0.119

TUBE: 5 09/24/96 21:25
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S60 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
59.7100 2.3 0.184 0.180 0.187

TUBE: 6 09/24/96 21:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S80 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
80.8700 0.9 0.248 0.250 0.247

TUBE: 7 09/24/96 21:34
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
53.4700 1.0 0.164 0.163 0.166

XRECOVERY = 106.9

15

RUN NAME: 9626901F04
PAGE: 2
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 8 09/24/96 21:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.6000 76.6 0.002 0.005 -0.000

TUBE: 9 09/24/96 21:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
12.4100 1.0 0.036 0.036 0.036

TUBE: 10 09/24/96 21:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.3900 1.7 0.130 0.131 0.128

XRECOVERY = 106.0

TUBE: 11 09/24/96 21:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.0600 17.6 0.001 0.001 0.000

TUBE: 12 09/24/96 21:51
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PEW ***** 100 100 1 962681056001
U. AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
- 1.3000 129.6 0.001 0.005 -0.002 - -

TUBE: 13 09/24/96 21:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PEW A ***** 100 100 1 962681056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.4400 0.3 0.064 0.064 0.064

XRECOVERY = 100.7

156

RUN NAME: 9626901F04
PAGE: 3
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 14 09/24/96 22:03
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
42.1200 2.4 0.129 0.127 0.131 -- --

TUBE: 15 09/24/96 22:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSWA ***** 1 1 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
60.7700 1.3 0.187 0.189 0.186

XRECOVERY = 93.2

TUBE: 16 09/24/96 22:12
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASS ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.2700 100.7 0.001 0.004 -0.001 -- --

TUBE: 17 09/24/96 22:16
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASSA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.1300 0.6 0.057 0.057 0.057

XRECOVERY = 85.3 95.6
3/12/96 10-1-96

TUBE: 18 09/24/96 22:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRAAD ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.6700 99.7 -0.001 0.001 -0.002 -- --

TUBE: 19 09/24/96 22:25
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRAADA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.9600 2.0 0.057 0.057 0.056

XRECOVERY = 94.8

157

RUN NAME: 9626901F04
PAGE: 4
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
OFAA ELEMENT: AS

TUBE: 20 09/24/96 22:29
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DD ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.3300 252.2 -0.002 0.000 -0.003

TUBE: 21 09/24/96 22:33
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DDA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.1800 0.1 0.057 0.057 0.057

%RECOVERY = 95.9

TUBE: 22 09/24/96 22:30
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
41.9000 2.3 0.128 0.128 0.130

%RECOVERY = 104.8

TUBE: 23 09/24/96 22:42
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.0200 31.4 0.001 -0.000 0.001

TUBE: 24 09/24/96 22:46
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BRS4S ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.4200 163.9 -0.001 0.000 -0.003

TUBE: 25 09/24/96 22:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BRS4SA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.4000 1.2 0.061 0.061 0.062

%RECOVERY = 102.4

158

RUN NAME: 9626901F04
PAGE: 5
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
CFAA ELEMENT: AS

TUBE: 26 09/24/96 22:54

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583209 ~~BRS3D~~ U***** 100 100 1 962681056001

V ~~AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD~~
~~1.5300 24.2 0.002 0.001 0.003~~

TUBE: 27 09/24/96 22:50

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583209 ~~BRS3DA~~ U***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.0900 0.7 0.060 0.060 0.060

%RECOVERY = 92.8

TUBE: 28 09/24/96 23:03

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583209 ~~BRS3DD~~ D***** 100 100 1 962681056001

V ~~AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD~~
~~0.9600 25.6 0.000 0.001 -0.000~~

TUBE: 29 09/24/96 23:07

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583209 ~~BRS3DDA~~ D***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.5000 2.2 0.058 0.057 0.059

%RECOVERY = 97.5

TUBE: 30 09/24/96 23:11

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583209 ~~BAS3DS~~ R***** 100 100 1 962681056001

V ~~AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD~~
~~40.9100 0.5 0.125 0.126 0.125~~

TUBE: 31 09/24/96 23:15

SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ R***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
59.0900 0.4 0.102 0.101 0.103

%RECOVERY = NOT APPLICABLE

159

RUN NAME: 9626901F04
PAGE: 6
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
OFAA ELEMENT: AG

TUBE: 32 09/24/96 23:19
SAMPLE 2583210 DRA3S CLASS ***** IVOL/WT 100 FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) 4.8900 XRPD 42.1 AVG abs 0.013 BURN 1 0.017 BURN 2 0.003 RR RD

TUBE: 33 09/24/96 23:24
SAMPLE 2583210 DRA3SA CLASS ***** IVOL/WT 100 FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) 22.2900 XRPD 2.6 AVG abs 0.067 BURN 1 0.063 BURN 2 0.066

%RECOVERY = 87.0

TUBE: 34 09/24/96 23:28
SAMPLE CCV 3 CLASS ***** IVOL/WT 0 FVOL 0 DF 1 BATCH NUMBER
AVG(ppb) 41.7700 XRPD 0.3 AVG abs 0.128 BURN 1 0.123 BURN 2 0.126

%RECOVERY = 104.4

TUBE: 35 09/24/96 23:32
SAMPLE CCR 3 CLASS ***** IVOL/WT 0 FVOL 0 DF 1 BATCH NUMBER
AVG(ppb) 1.6800 XRPD 33.4 AVG abs 0.003 BURN 1 0.004 BURN 2 0.001

TUBE: 36 09/24/96 23:36
SAMPLE 2583823 DRA2D CLASS ***** IVOL/WT 100 FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) 0.5500 XRPD 90.1 AVG abs -0.001 BURN 1 0.000 BURN 2 -0.002 RR RD

TUBE: 37 09/24/96 23:40
SAMPLE 2583823 DRA2DA CLASS ***** IVOL/WT 100 FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) 20.3000 XRPD 0.6 AVG abs 0.061 BURN 1 0.061 BURN 2 0.061

%RECOVERY = 101.5

RUN NAME: 9626901F04
PAGE: 7
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 38 09/24/96 23:44
SAMPLE CLASS IVOL/WT
2583824 BRAAS ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
1.9000 37.0 0.003

BURN 1 BURN 2 RR RD
0.005 0.002

TUBE: 39 09/24/96 23:45
SAMPLE CLASS IVOL/WT
2583824 BRA2SA ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
19.7600 1.1 0.059

BURN 1 BURN 2
0.059 0.060

%RECOVERY = 89.3

TUBE: 40 09/24/96 23:52
SAMPLE CLASS IVOL/WT
2583825 BRA1D ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
1.5700 55.7 0.002

BURN 1 BURN 2 RR RD
0.004 0.000

TUBE: 41 09/24/96 23:56
SAMPLE CLASS IVOL/WT
2583825 BRA1DA ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
20.8300 2.4 0.062

BURN 1 BURN 2
0.061 0.064

%RECOVERY = 96.3

TUBE: 42 09/24/96 00:00
SAMPLE CLASS IVOL/WT
2583826 BRA1S ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
0.7300 118.9 0.000

BURN 1 BURN 2 RR RD
0.002 -0.002

TUBE: 43 09/25/96 00:04
SAMPLE CLASS IVOL/WT
2583826 BRA1SA ***** 100

FVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
21.4500 2.5 0.064

BURN 1 BURN 2
0.063 0.066

%RECOVERY = 107.2

161

RUN NAME: 9626901F04
PAGE: 8
ANALYST: 114

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
OFAA ELEMENT: 00

TUBE: 44 09/25/96 00:08
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFI ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
2.0600 12.6 0.004 0.004 0.003

TUBE: 45 09/25/96 00:13
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFIA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
22.8600 4.9 0.069 0.066 0.071

XRECOVERY = 104.0

TUBE: 46 09/25/96 00:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.6300 2.4 0.131 0.133 0.128

XRECOVERY = 106.6

TUBE: 47 09/25/96 00:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.9900 10.6 0.004 0.003 0.004

TUBE: 48 09/25/96 00:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PRW ***** 100 100 1 962681056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.9300 3.0 0.003 0.004 0.003

TUBE: 49 09/25/96 00:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PRW ***** 100 100 1 962681056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
22.8400 1.6 0.069 0.063 0.070

XRECOVERY = 104.6

162

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Slaughten* 859

DATA VERIFIED BY: *RDCM*
9/25/96

DATA FILE NAME: FB26818
RUN NAME: 9626901F03

INSTRUMENT NO: 03812
OKC CORR: BZ

ANALYST: CB

ELEMENT: PB

166

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9626901F03
PAGE: 1
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: Pb

TUBE:	1	09/24/96	20:48			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S0			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		0.0000	0.0	0.010	0.012	0.009

TUBE:	2	09/24/96	20:53			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S3			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		3.0000	4.4	0.025	0.025	0.026

TUBE:	3	09/24/96	20:50			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S9			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		9.0000	5.6	0.085	0.088	0.081

TUBE:	4	09/24/96	21:03			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S15			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		15.0000	1.8	0.149	0.147	0.151

TUBE:	5	09/24/96	21:00			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S30			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		30.0000	0.7	0.270	0.269	0.271

TUBE:	6	09/24/96	21:13			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
S60			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		60.0000	0.5	0.462	0.461	0.464

TUBE:	7	09/24/96	21:17			
SAMPLE		CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER
ICV			0	0	1	
		AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
		19.9300	0.2	0.191	0.190	0.191

XRECOVERY = 99.6

164

RUN NAME: 9626901F03
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
OFAA ELEMENT: PB

TUBE: 8 09/24/96 21:22
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.4200 99.9 0.004 0.007 0.000

TUBE: 9 09/24/96 21:26
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
4.2900 5.2 0.037 0.036 0.038

TUBE: 10 09/24/96 21:31
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.2800 3.7 0.219 0.213 0.224

TUBE: 11 09/24/96 21:36
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.9200 1.7 0.224 0.221 0.226

XRECOVERY = 95.7

TUBE: 12 09/24/96 21:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.5900 50.0 0.005 0.007 0.003

TUBE: 13 09/24/96 21:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583160 ZZZZZZ UN***** 50 50 1 962635715001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
8.0900 0.5 0.075 0.075 0.075 M —

RUN NAME: 9626901F03
PAGE: 3
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT 1D: 03812
GFAA ELEMENT: PB

TUBE: 14 09/24/96 21:50

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583168 ZZZZZZ	*****	50	50	1	962635715001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
19.3900	4.4	0.187	0.193	0.181

%RECOVERY = 56.5

TUBE: 15 09/24/96 21:54

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583168 ZZZZ	*****	50	50	1	962635715001

V	AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-	2.4700	5.1	0.021	0.022	0.020	M	-

TUBE: 16 09/24/96 21:50

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583168 ZZZZZZ	*****	50	50	1	962635715001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
14.4300	3.1	0.143	0.146	0.140

%RECOVERY = 59.8

TUBE: 17 09/24/96 22:04

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583168 ZZZZ	*****	50	50	1	962635715001

V	AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-	14.3000	0.3	0.142	0.141	0.142	M	-

TUBE: 18 09/24/96 22:00

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583168 ZZZZZZ	*****	50	50	1	962635715001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
26.8800	0.7	0.247	0.245	0.248

%RECOVERY = 62.9

TUBE: 19 09/24/96 22:13

SAMPLE	CLASS	IVOL/WT	EVOL	DF	BATCH NUMBER
2583623 ZZZZ	*****	50	50	2	962635715001

V	AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
X	26.1100	6.1	0.241	0.230	0.251	-	-

166

RUN NAME: 9626901F03
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 20 09/24/96 22:18
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583623 ~~ZZZZZ~~ ***** 50 50 2 962635715001

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
44.8200	2.3	0.371	0.365	0.377

%RECOVERY = 93.6

TUBE: 21 09/24/96 22:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583000 ~~ZZZZZ~~ ***** 50 50 1 962635715001

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	2.5000	1.0	0.021	0.021	0.021	M	-

TUBE: 22 09/24/96 22:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583000 ~~ZZZZZ~~ ***** 50 50 1 962635715001

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
15.1100	0.1	0.150	0.150	0.150

%RECOVERY = 63.0

TUBE: 23 09/24/96 22:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
24.9900	0.6	0.232	0.231	0.233

%RECOVERY = 100.0

TUBE: 24 09/24/96 22:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 2 0 0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
0.8900	37.7	0.008	0.010	0.006

TUBE: 25 09/24/96 22:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ***** 100 100 1 962681056001

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
X	0.6700	5.7	0.006	0.005	1.006	-	-

16

RUN NAME: 9626901F03
PAGE: 5
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 26 09/24/96 22:46
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBWA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.4100 1.4 0.204 0.201 0.206

%RECOVERY = 107.0

TUBE: 27 09/24/96 22:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962681056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
20.8300 1.1 0.199 0.197 0.200 — —

TUBE: 28 09/24/96 22:55
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSWA ***** 1 1 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.6500 3.5 0.357 0.366 0.349

%RECOVERY = 109.1

TUBE: 29 09/24/96 23:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583205 BRASS ***** 100 100 1 962681056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.0400 44.4 0.009 0.012 0.006 — —

TUBE: 30 09/24/96 23:04
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583205 BRASSA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.3000 0.0 0.132 0.131 0.132

%RECOVERY = 61.7

TUBE: 31 09/24/96 23:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583206 BRASS ***** 100 100 1 962681056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.9200 12.3 0.008 0.007 0.008 — —

168

RUN NAME: 9626901F03
PAGE: 6
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 32 09/24/96 23:14
SAMPLE 2583206 BRADDA CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) 14.5600 XRPD 1.3 AVG abs 0.144
BURN 1 0.143 BURN 2 0.146

XRECOVERY = 68.2

TUBE: 33 09/24/96 23:10
SAMPLE 2583207 BRADDD CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

X
AVG(ppb) 1.4900 XRPD 8.5 AVG abs 0.013
BURN 1 0.013 BURN 2 0.012 RR RD

TUBE: 34 09/24/96 23:23
SAMPLE 2583207 BRADDA CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) 13.7500 XRPD 5.8 AVG abs 0.136
BURN 1 0.141 BURN 2 0.130

XRECOVERY = 61.3

TUBE: 35 09/24/96 23:27
SAMPLE CCB 3 CLASS ***** IVOL/WT 0
FVOL 0 DF 1 BATCH NUMBER

AVG(ppb) 26.0200 XRPD 1.0 AVG abs 0.240
BURN 1 0.230 BURN 2 0.242

XRECOVERY = 104.1

TUBE: 36 09/24/96 23:32
SAMPLE CCB 3 CLASS ***** IVOL/WT 0
FVOL 0 DF 1 BATCH NUMBER

AVG(ppb) 1.0500 XRPD 1.4 AVG abs 0.009
BURN 1 0.009 BURN 2 0.009

TUBE: 37 09/24/96 23:36
SAMPLE 2583208 BAS4S CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

X
AVG(ppb) 1.1100 XRPD 6.6 AVG abs 0.009
BURN 1 0.010 BURN 2 0.009 RR RD

RUN NAME: 9626901F03
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
CFAA ELEMENT: PB

TUBE: 38 09/24/96 23:41
SAMPLE 2583208 BR545A CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.2400 0.1 0.151 0.151 0.151
XRECOVERY = 70.6

TUBE: 39 09/24/96 23:46
SAMPLE 2583209 BR53D CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.8600 13.5 0.007 0.008 0.007 — —

TUBE: 40 09/24/96 23:50
SAMPLE 2583209 BR53DA CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.2600 0.6 0.151 0.152 0.151
XRECOVERY = 72.0

TUBE: 41 09/24/96 23:55
SAMPLE 2583209 BR53DD CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.7400 5.2 0.006 0.006 0.006 — —

TUBE: 42 09/25/96 00:00
SAMPLE 2583209 BR53DDA CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.9100 1.7 0.183 0.185 0.180
XRECOVERY = 94.6

TUBE: 43 09/25/96 00:04
SAMPLE 2583209 BR53DS CLASS *****X IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
15.6500 1.9 0.155 0.157 0.153 — —

RUN NAME: 9626901F03
PAGE: 8
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 44 09/25/96 00:09
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ R***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.9100 2.2 0.277 0.272 0.281

%RECOVERY = NOT APPLICABLE

TUBE: 45 09/25/96 00:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583210 DRA35 ***** 100 100 1 962681056001

~~X~~ AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.9500 25.0 0.016 0.019 0.014 — —

TUBE: 46 09/25/96 00:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583210 DRA35A ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.0900 3.3 0.150 0.153 0.146

%RECOVERY = 65.7

TUBE: 47 09/25/96 00:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
26.1600 0.0 0.241 0.241 0.241

%RECOVERY = 104.6

TUBE: 48 09/25/96 00:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.8000 24.2 0.007 0.008 0.006

TUBE: 49 09/25/96 00:32
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583823 BRA2D ***** 100 100 1 962681056001

~~X~~ AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.0000 16.0 0.008 0.007 0.009 — —

171

RUN NAME: 9626901F03
PAGE: 5
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03012
GFAA ELEMENT: PB

TUBE: 50 09/25/96 00:37
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583823 BRAIDA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.7400 1.9 0.136 0.134 0.137

*RECOVERY = 63.7

TUBE: 51 09/25/96 00:41
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583824 BRA2S ***** 100 100 1 962681056001

~~V~~ AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.9600 1.1 0.008 0.008 0.008

TUBE: 52 09/25/96 00:46
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583824 BRA2SA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.4300 7.4 0.132 0.123 0.139

*RECOVERY = 62.4

TUBE: 53 09/25/96 00:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583825 BRAID ***** 100 100 1 962681056001

~~V~~ AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.8500 10.2 0.007 0.008 0.007

TUBE: 54 09/25/96 00:56
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583825 BRAIDA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.5800 0.2 0.134 0.134 0.134

*RECOVERY = 63.6

TUBE: 55 09/25/96 01:00
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583826 BRAIS ***** 100 100 1 962681056001

~~V~~ AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.8600 14.7 0.007 0.006 0.003

173

RUN NAME: 9626901F03
PAGE: 10
ANALYST: GS

LANCASTER LABORATORIES
INSTRUMENT ID: 03012
CPAA ELEMENT: PB

TUBE: 56 09/25/96 01:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583826 BRAISA ***** 100 100 1 962681056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
12.6600	1.7	0.124	0.123	0.125

XRECOVERY = 59.0

TUBE: 57 09/25/96 01:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFI ***** 100 100 1 962681056001

U
X

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
0.7800	1.9	0.007	0.006	0.007	—	—

TUBE: 58 09/25/96 01:11
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFIA ***** 100 100 1 962681056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
22.8900	2.9	0.215	0.220	0.211

XRECOVERY = 114.4

TUBE: 59 09/25/96 01:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 5 0 0 1

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
26.0100	0.1	0.240	0.240	0.240

XRECOVERY = 104.0

TUBE: 60 09/25/96 01:24
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 5 0 0 1

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
1.0500	25.8	0.009	0.010	0.007

TUBE: 61 09/25/96 01:28
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ***** 100 100 1 962681056002

U
X

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
0.8500	23.5	0.007	0.008	0.006	—	—

175

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *EAT 809*

DATA VERIFIED BY: *RDG 114*
9/25/96

DATA FILE NAME: SE26811.RAT
RUN NAME: 9626901F05

INSTRUMENT NO: 04725
BKG CORR: BZ

ANALYST: 68

ELEMENT: SE

174

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9626901F05
PAGE: 1
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 1 09/25/96 01:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-1.1600 24.9 -0.001 -0.000 -0.001

TUBE: 2 09/25/96 01:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S5 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
5.0700 5.4 0.015 0.016 0.015

TUBE: 3 09/25/96 01:31
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S15 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
14.0800 0.1 0.043 0.043 0.043

TUBE: 4 09/25/96 01:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S25 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
22.7400 5.4 0.065 0.062 0.067

TUBE: 5 09/25/96 01:39
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S40 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
38.8100 0.7 0.102 0.102 0.101

TUBE: 6 09/25/96 01:43
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S50 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
49.2000 5.4 0.126 0.121 0.131

TUBE: 7 09/25/96 01:47
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
19.2200 7.0 0.050 0.053 0.048

%RECOVERY = -96.1

175

RUN NAME: 9626901F05.
PAGE: 2
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 8 09/25/96 01:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICB 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-0.8200 45.2 0.000 0.001 -0.000

TUBE: 9 09/25/96 01:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CRA 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
4.1200 8.8 0.013 0.013 0.012

TUBE: 10 09/25/96 01:59
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 1 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
24.2400 0.7 0.063 0.063 0.062

%RECOVERY = 97.0

TUBE: 11 09/25/96 02:03
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-1.4100 16.4 -0.001 -0.001 -0.002

TUBE: 12 09/25/96 02:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962681056002

V
X
AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-1.4100 12.5 -0.001 -0.001 -0.001

TUBE: 13 09/25/96 02:11
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW A *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
10.4000 1.6 0.028 0.029 0.028

%RECOVERY = 104.0

176

RUN NAME: 9626901F05
PAGE: 3
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 14 09/25/96 02:16
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ~~ZZZZZZ~~ ***** 1 1 962681056002

~~V~~
AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
8.6300 2.3 0.024 0.023 0.024 — —

TUBE: 15 09/25/96 02:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW A ~~ZZZZZZ~~ *****A* 1 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
20.1700 1.0 0.053 0.052 0.053

%RECOVERY = 115.4

TUBE: 16 09/25/96 02:24
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583222 ~~ZZZZZZ~~ ***** 100 100 1 962681056002

~~V~~
AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-2.8900 12.2 -0.005 -0.004 -0.005 — —

TUBE: 17 09/25/96 02:28
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583222 ~~ZZZZZZ~~ *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
7.6700 3.4 0.021 0.022 0.021

%RECOVERY = 76.7

TUBE: 18 09/25/96 02:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583223 BRA2D ***** 100 100 1 962681056002

~~V~~
AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
15.8200 5.5 0.042 0.043 0.040 — —

TUBE: 19 09/25/96 02:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583223 BRA2DA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
25.2100 0.7 0.065 0.065 0.065

%RECOVERY = 93.9

177

RUN NAME: 9626901F05
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 20 09/25/96 02:41
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583224 BRAAS ***** 100 100 1 962681056002

V
X
AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-2.5900 1.1 -0.004 -0.004 -0.004 — —

TUBE: 21 09/25/96 02:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583224 BRAASA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
7.3700 5.5 0.021 0.020 0.021

%RECOVERY = 73.7

TUBE: 22 09/25/96 02:49
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
22.8200 0.4 0.059 0.059 0.059

%RECOVERY = 91.3

TUBE: 23 09/25/96 02:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 2 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-1.2000 3.5 -0.001 -0.001 -0.001

TUBE: 24 09/25/96 02:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583225 BRAID ***** 100 100 1 962681056002

V
— AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
1.6700 10.4 0.007 0.006 0.007 — —
SF

TUBE: 25 09/25/96 03:01
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583225 BRAIDA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
11.8200 2.9 0.032 0.031 0.032

%RECOVERY = 101.5

178

RUN NAME: 9626901F05
PAGE: 5
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 26 09/25/96 03:05
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583226 BRAIS U***** 100 100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	-1.3300	12.2	-0.001	-0.001	-0.001	5/-	-

TUBE: 27 09/25/96 03:09
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583226 BRAISA U****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
9.7600	1.5	0.027	0.027	0.026

%RECOVERY = 97.6

TUBE: 28 09/25/96 03:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583226 BRAISD D***** 100 100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	-0.9500	7.0	0.000	-0.000	0.000	-	-

TUBE: 29 09/25/96 03:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583226 BRAISDA D****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
9.8800	3.3	0.027	0.026	0.028

%RECOVERY = 98.8

TUBE: 30 09/25/96 03:21
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583226 BRAISS R***** 100 100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	8.0700	0.3	0.022	0.022	0.022	-	-

TUBE: 31 09/25/96 03:25
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
Z22222 R****A* 0 0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
19.2800	2.0	0.050	0.050	0.051

%RECOVERY = NOT APPLICABLE

179

RUN NAME: 9626901F05
PAGE: 6
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 32 09/25/96 03:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583227 BRAFI ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
19.9000 1.9 0.052 0.053 0.051 CP

TUBE: 33 09/25/96 03:33
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583227 BRAFIA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
28.7000 1.8 0.074 0.073 0.075

%RECOVERY = 88.0

TUBE: 34 09/25/96 03:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
22.3200 1.4 0.058 0.058 0.057

%RECOVERY = 89.3

TUBE: 35 09/25/96 03:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 3 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-1.0900 83.9 0.000 0.001 -0.002

TUBE: 36 09/25/96 03:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583830 ZZZZZZ ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-0.8200 28.2 0.000 0.001 -0.000 SR

TUBE: 37 09/25/96 03:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583830 ZZZZZZ *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
9.4200 3.1 0.026 0.026 0.025

%RECOVERY = 94.2

180

RUN NAME: 9626901F05
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 38 09/25/96 03:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583831 ZZZZZZ ***** 100 100 1 962681056002
V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
17.4600 5.4 0.046 0.047 0.044

TUBE: 39 09/25/96 03:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583831 ZZZZZZ *****A* 100 100 1 962681056002
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
28.5200 0.4 0.073 0.073 0.073

%RECOVERY = 110.6

TUBE: 40 09/25/96 04:01
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583832 ZZZZZZ ***** 100 100 1 962681056002
V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-1.0600 14.3 0.000 -0.001 -0.000

TUBE: 41 09/25/96 04:05
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583832 ZZZZZZ *****A* 100 100 1 962681056002
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
11.8200 4.0 0.032 0.031 0.033

%RECOVERY = 118.2

TUBE: 42 09/25/96 04:09
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583833 ZZZZZZ ***** 100 100 1 962681056002
V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
109.6400 1.9 0.275 0.279 0.271
OVER CALIBRATION RANGE

TUBE: 43 09/25/96 04:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583833 ZZZZZZ *****A* 100 100 1 962681056002
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
126.3100 1.0 0.317 0.319 0.314

%RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

181

RUN NAME: 9626901F05
PAGE: 8
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 44 09/25/96 04:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583834 ~~ZZZZZZ~~ ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-1.0000 4.1 0.000 -0.000 -0.000 *SV*

TUBE: 45 09/25/96 04:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583834 ~~ZZZZZZ~~ *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
12.4000 2.5 0.033 0.034 0.033

%RECOVERY = 124.0

TUBE: 46 09/25/96 04:26
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 4 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
22.7700 2.9 0.059 0.058 0.060

%RECOVERY = 91.1

TUBE: 47 09/25/96 04:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 4 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
-0.5900 208.1 0.001 0.003 -0.001

TUBE: 48 09/25/96 04:33
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-1.1700 33.3 -0.001 0.000 -0.001 *SV*

*QENT 27
9/25/96*

TUBE: 49 09/25/96 04:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW A *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
11.4700 5.5 0.031 0.030 0.032

%RECOVERY = 0.0

185

RUN NAME: 9626901F05
PAGE: 9
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SF

TUBE: 50 09/25/96 04:42
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
8.5700 2.7 0.024 0.023 0.024 56

TUBE: 51 09/25/96 04:46
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSWA *****A* 1 1 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
20.6200 2.9 0.054 0.053 0.055

%RECOVERY = 120.5

TUBE: 52 09/25/96 04:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASS ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
16.5400 1.8 0.043 0.044 0.043 56

TUBE: 53 09/25/96 04:54
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASSA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
25.1800 0.3 0.065 0.065 0.065

%RECOVERY = 86.4

TUBE: 54 09/25/96 04:58
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRAD ***** 100 100 1 962681056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
-3.4500 4.5 -0.006 -0.007 -0.006 56

TUBE: 55 09/25/96 05:02
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRADDA *****A* 100 100 1 962681056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
6.9000 2.9 0.020 0.019 0.020

%RECOVERY = 69.0

2583205
9/25/96

183

RUN NAME: 9626901FD5
PAGE: 10
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 56 09/25/96 05:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DD ***** 100 100 1 962681056002/

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	PK RPD
-	-2.6500	10.6	-0.004	-0.004	-0.005	5/

TUBE: 57 09/25/96 05:11
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DDA *****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
6.4500	2.0	0.018	0.019	0.018

%RECOVERY = 64.5

TUBE: 58 09/25/96 05:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 5 0 0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
22.3200	3.3	0.058	0.057	0.059

%RECOVERY = 89.3

TUBE: 59 09/25/96 05:19
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 5 0 0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
-1.1300	10.9	0.000	-0.000	-0.001

TUBE: 60 09/25/96 05:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BR54S ***** 100 100 1 962681056002/

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	PK RPD
-	2.1700	15.4	0.008	0.008	0.007	5/

TUBE: 61 09/25/96 05:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BR54SA *****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
11.3300	3.9	0.031	0.030	0.031

%RECOVERY = 91.6

2007/8/4
9/25/96

184

RUN NAME: 9626901F05
PAGE: 11
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 62 09/25/96 05:31

SAMPLE CLASS IVOL/WT
2583209 BRS3D U***** 100

FVOL DF BATCH NUMBER
100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RD	RD
-	-1.5900	9.5	-0.002	-0.001	-0.002	-	-

TUBE: 63 09/25/96 05:35

SAMPLE CLASS IVOL/WT
2583209 BRS3DA U*****A* 100

FVOL DF BATCH NUMBER
100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
11.9200	9.5	0.032	0.030	0.034

%RECOVERY = 119.2

TUBE: 64 09/25/96 05:40

SAMPLE CLASS IVOL/WT
2583209 BRS3DD D***** 100

FVOL DF BATCH NUMBER
100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RD	RD
-	-0.9900	13.4	0.000	0.000	-0.000	5	-

TUBE: 65 09/25/96 05:44

SAMPLE CLASS IVOL/WT
2583209 BRS3DDA D*****A* 100

FVOL DF BATCH NUMBER
100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
12.5200	5.4	0.033	0.032	0.035

%RECOVERY = 125.2

TUBE: 66 09/25/96 05:48

SAMPLE CLASS IVOL/WT
2583209 BRS3DS R***** 100

FVOL DF BATCH NUMBER
100 1 962681056002

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RD	RD
-	7.5600	14.5	0.021	0.023	0.019	5	-

TUBE: 67 09/25/96 05:52

SAMPLE CLASS IVOL/WT
ZZZZZZ R*****A* 0

FVOL DF BATCH NUMBER
0 1

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
21.0200	1.7	0.055	0.054	0.055

%RECOVERY = NOT APPLICABLE

185

RUN NAME: 9626901F05
PAGE: 12
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 68 09/25/96 05:56

SAMPLE CLASS IVOL/WT
2583210 DRA3S ***** 100

EVOL DF BATCH NUMBER
100 1 962681056002

V AVG(ppb) %RPD AVG abs
13.6100 1.9 0.036

BURN 1 BURN 2 RR RD
0.036 0.037 - SF

TUBE: 69 09/25/96 06:00

SAMPLE CLASS IVOL/WT
2583210 DRA3SA *****A* 100

EVOL DF BATCH NUMBER
100 1 962681056002

AVG(ppb) %RPD AVG abs
25.4400 12.6 0.066

BURN 1 BURN 2
0.060 0.071

%RECOVERY = 118.3

TUBE: 70 09/25/96 06:04

SAMPLE CLASS IVOL/WT
CCV 6 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) %RPD AVG abs
21.0200 5.6 0.055

BURN 1 BURN 2
0.057 0.053

%RECOVERY = 84.1

TUBE: 71 09/25/96 06:08

SAMPLE CLASS IVOL/WT
CCB 6 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) %RPD AVG abs
-1.2900 56.3 -0.001

BURN 1 BURN 2
0.000 -0.002

TUBE: 72 09/25/96 06:12

SAMPLE CLASS IVOL/WT
2583823 BRA2D ***** 100

EVOL DF BATCH NUMBER
100 1 962681056002

V AVG(ppb) %RPD AVG abs
-1.4700 28.5 -0.001

BURN 1 BURN 2 RR RD
-0.001 -0.002 - SF

TUBE: 73 09/25/96 06:16

SAMPLE CLASS IVOL/WT
2583823 BRA2DA *****A* 100

EVOL DF BATCH NUMBER
100 1 962681056002

AVG(ppb) %RPD AVG abs
9.0700 2.1 0.025

BURN 1 BURN 2
0.025 0.025

%RECOVERY = 90.7

② DRA3S
9/25/96

186

RUN NAME: 9626901F05
PAGE: 13
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 74 09/25/96 06:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583824 BRAAS ***** 100 100 1 96268105600X1

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	3.9000	10.0	0.012	0.013	0.011	SE	

TUBE: 75 09/25/96 06:24
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583824 BRAASA *****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
12.9100	3.8	0.034	0.035	0.034

%RECOVERY = 90.1

TUBE: 76 09/25/96 06:28
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583825 BRAID ***** 100 100 1 96268105600A1

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	-1.6600	14.6	-0.002	-0.002	-0.001	SE	

TUBE: 77 09/25/96 06:32
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583825 BRAIDA *****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
8.6800	2.2	0.024	0.024	0.024

%RECOVERY = 86.8

TUBE: 78 09/25/96 06:36
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583826 BRAIS ***** 100 100 1 96268105600A1

V	AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
-	108.6000	2.9	0.273	0.267	0.278	SE	2

OVER CALIBRATION RANGE

TUBE: 79 09/25/96 06:40
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583826 BRAISA *****A* 100 100 1 962681056002

AVG(ppb)	%RPD	AVG abs	BURN 1	BURN 2
121.7800	0.6	0.305	0.304	0.307

%RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

187

RUN NAME: 9626901F05
PAGE: 14
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 80 09/25/96 06:44
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFI ***** 100 100 1 962681056001
V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 SR RD
-1.5300 51.1 -0.001 -0.003 -0.000 SF

SEP 25 9/25/96

TUBE: 81 09/25/96 06:48
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 BRAFIA *****A* 100 100 1 962681056002
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
10.2700 4.2 0.028 0.027 0.029

%RECOVERY = 102.7

TUBE: 82 09/25/96 06:52
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 7 0 0 1
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
23.0100 1.4 0.060 0.059 0.060

%RECOVERY = 92.0

TUBE: 83 09/25/96 06:56
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 7 0 0 1
AVG(ppb) %RPD AVG abs BURN 1 BURN 2
0.3700 258.1 0.003 0.002 0.005

DATA REVIEWED BY:

EPTBM

DATA VERIFIED BY:

*RDG-114
9/25/96*

188.

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

Jms028

DATA VERIFIED BY:

*RDG/ly
9/27/96*

DATA FILE NAME: SE27002.RAT
RUN NAME: 9627001F05

INSTRUMENT NO: 04725
BKG CORR: BZ

ANALYST: A09

ELEMENT: SE

Concentration is used to evaluate if sample results are within calibration range.

189

RUN NAME: 9627001F05
PAGE: 1
ANALYST: 009

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SE

TUBE: 1 09/26/96 08:37
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.3900 119.4 0.001 0.002 0.001

TUBE: 2 09/26/96 08:41
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S5 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
5.8700 7.0 0.015 0.016 0.015

TUBE: 3 09/26/96 08:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.3600 1.4 0.041 0.041 0.041

TUBE: 4 09/26/96 08:49
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S25 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.2400 0.4 0.067 0.066 0.067

TUBE: 5 09/26/96 08:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
38.2800 0.2 0.102 0.102 0.102

TUBE: 6 09/26/96 08:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S50 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
50.9700 1.1 0.131 0.132 0.130

TUBE: 7 09/26/96 09:01
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.8500 8.8 0.053 0.049 0.056

XRECOVERY = 99.2

190

RUN NAME: 9627001F05
 PAGE: 7
 ANALYST: 809

LANCASTER LABORATORIES
 INSTRUMENT ID: 04725
 GFAA ELEMENT: SE

TUBE: 8 09/26/96 09:05
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 ICB 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 -0.9100 37.6 -0.001 -0.001 -0.000

TUBE: 9 09/26/96 09:07
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 CRA 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 4.0700 4.8 0.012 0.012 0.012

TUBE: 10 09/26/96 09:13
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 CCV 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 24.5500 2.3 0.065 0.064 0.066

XRECOVERY = 98.2

TUBE: 11 09/26/96 09:17
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 CCR 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 -1.1200 18.0 -0.001 -0.001 -0.002

TUBE: 12 09/26/96 09:21
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 PRW ***** 100 100 1 962681056001

~~U~~
 X
 AVG(ppb) XRPD AVG abs BURN 1 BURN 2 KK RD
 -1.1600 26.4 -0.001 -0.001 -0.002

TUBE: 13 09/26/96 09:25
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 PRW A ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 10.1200 0.9 0.028 0.020 0.027

XRECOVERY = 101.2

RUN NAME: 9627001F05
PAGE: 3
ANALYST: 889

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SE

TUBE: 14 09/26/96 09:30
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ***** 1 1 962681056001

V
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
8.7800 2.6 0.024 0.024 0.025

TUBE: 15 09/26/96 09:34
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSWA ***** 1 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.6600 1.3 0.052 0.052 0.053

*RECOVERY = 108.8

TUBE: 16 09/26/96 09:30
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASS ***** 100 100 1 962681056001

V
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
16.9600 1.7 0.045 0.045 0.046

TUBE: 17 09/26/96 09:40
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 BRASSA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
25.5800 0.9 0.067 0.067 0.068

*RECOVERY = 86.2

TUBE: 18 09/26/96 09:40
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRAAD ***** 100 100 1 962681056001

V
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.0800 ***** 0.002 0.005 -0.001

TUBE: 19 09/26/96 09:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 BRA4DA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
7.2300 9.9 0.020 0.019 0.021

*RECOVERY = 72.3

193

RUN NAME: 9627001F05
PAGE: 4
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFSA ELEMENT: GC

TUBE: 20 09/26/96 09:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DD ***** 100 100 1 962681056001

U
X

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.0400 1.6 -0.001 -0.001 -0.001

TUBE: 21 09/26/96 09:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 BR4DDA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
8.4700 5.5 0.023 0.024 0.022

%RECOVERY = 84.7

TUBE: 22 09/26/96 10:03
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.7800 4.1 0.063 0.061 0.064

%RECOVERY = 95.1

TUBE: 23 09/26/96 10:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.1800 43.0 -0.002 -0.001 -0.002

TUBE: 24 09/26/96 10:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BR5AS ***** 100 100 1 962681056001

U
X

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.6800 146.8 0.003 0.001 0.005

TUBE: 25 09/26/96 10:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 BR5ASA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.9300 5.5 0.027 0.026 0.028

%RECOVERY = 99.3

10

RUN NAME: 9627001F05
PAGE: 5
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SC

TUBE: 26 09/26/96 10:19
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583209 BRS3D ***** 100 100 1 962681056001

X

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.9300 23.3 -0.001 -0.001 -0.000 ---

TUBE: 27 09/26/96 10:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583209 BRS3DA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
8.8700 1.5 0.024 0.024 0.025

*RECOVERY = 88.7

TUBE: 28 09/26/96 10:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583209 BRS3DD ***** 100 100 1 962681056001

X

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.1100 40.8 -0.001 -0.001 -0.002 ---

TUBE: 29 09/26/96 10:31
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583209 BRS3DDA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.1100 1.4 0.025 0.025 0.025

*RECOVERY = 91.1

TUBE: 30 09/26/96 10:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583209 BRS3DS ***** 100 100 1 962681056001

X

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
7.6000 7.9 0.021 0.020 0.022 ---

TUBE: 31 09/26/96 10:39
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
16.9500 0.8 0.045 0.045 0.045

*RECOVERY = NOT APPLICABLE

194

RUN NAME: 9627001F05
PAGE: 6
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
CPAA ELEMENT: SC

TUBE: 32 09/26/96 10:43
SAMPLE CLASS IVOL/WT
2583210 DRA35 ***** 100

EVOL DF BATCH NUMBER
100 1 962681056001

~~V~~

AVG(ppb) XRPD AVG abs
13.8900 6.3 0.037

BURN 1 BURN 2 RR RD
0.039 0.036 -- --

TUBE: 33 09/26/96 10:47
SAMPLE CLASS IVOL/WT
2583210 DRA35A *****A* 100

EVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
23.2900 3.3 0.061

BURN 1 BURN 2
0.063 0.060

*RECOVERY = 94.0

TUBE: 34 09/26/96 10:51
SAMPLE CLASS IVOL/WT
CCV 3 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs
23.2300 0.1 0.061

BURN 1 BURN 2
0.061 0.061

*RECOVERY = 92.9

TUBE: 35 09/26/96 10:55
SAMPLE CLASS IVOL/WT
CCB 3 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs
-1.3200 5.5 -0.002

BURN 1 BURN 2
-0.002 -0.002

TUBE: 36 09/26/96 10:59
SAMPLE CLASS IVOL/WT
2583823 BRAAD ***** 100

EVOL DF BATCH NUMBER
100 1 962681056001

~~V~~

AVG(ppb) XRPD AVG abs
-1.4700 15.8 -0.002

BURN 1 BURN 2 RR RD
-0.002 -0.003 -- --

TUBE: 37 09/26/96 11:03
SAMPLE CLASS IVOL/WT
2583823 BRAADA *****A* 100

EVOL DF BATCH NUMBER
100 1 962681056001

AVG(ppb) XRPD AVG abs
9.9500 6.4 0.027

BURN 1 BURN 2
0.026 0.028

*RECOVERY = 99.5

195

RUN NAME: 9627001F05
PAGE: 7
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
CPGA ELEMENT: SC

TUBE: 38 09/26/96 11:07

SAMPLE 2583824 BRAAS CLASS ***** IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

X

AVG(ppb) 4.6600 XRPD 7.2 AVG abs 0.014 BURN 1 0.014 BURN 2 0.013 RR RD

TUBE: 39 09/26/96 11:11

SAMPLE 2583824 BRAASA CLASS ***** IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) 14.1200 XRPD 4.4 AVG abs 0.030 BURN 1 0.037 BURN 2 0.039

XRECOVERY = 94.6

TUBE: 40 09/26/96 11:15

SAMPLE 2583825 BRAID CLASS ***** IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) 9.9100 XRPD 141.5 AVG abs 0.027 BURN 1 0.052 BURN 2 0.001 RR RD

TUBE: 41 09/26/96 11:17

SAMPLE 2583825 BRAIDA CLASS ***** IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) 12.2000 XRPD 14.6 AVG abs 0.033 BURN 1 0.030 BURN 2 0.036

XRECOVERY = 0.0

TUBE: 42 09/26/96 11:23

SAMPLE 2583826 BRAIS CLASS ***** IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962681056001

X

AVG(ppb) 24.8200 XRPD 1.7 AVG abs 0.065 BURN 1 0.066 BURN 2 0.065 RR RD

TUBE: 43 09/26/96 11:27

SAMPLE 2583826 BRAISA CLASS ***** IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962681056001

AVG(ppb) 35.1800 XRPD 3.6 AVG abs 0.092 BURN 1 0.090 BURN 2 0.094

XRECOVERY = 103.6

RUN NAME: 9627001F05
PAGE: 0
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
CFAA ELEMENT: SC

TUBE: 44 09/26/96 11:31
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583827 BRAFI ***** 100 100 1 962681056001

V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.2800 24.1 -0.002 -0.002 -0.001 *Red*

TUBE: 45 09/26/96 11:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583827 BRAFIA ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
17.5600 43.9 0.047 0.031 0.033

XRECOVERY = 175.6

TUBE: 46 09/26/96 11:39
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.0400 0.6 0.061 0.031 0.061

XRECOVERY = 92.2

TUBE: 47 09/26/96 11:43
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-2.2500 21.7 -0.004 -0.003 -0.005

TUBE: 48 09/26/96 11:47
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW ***** 100 100 1 962691056001

X V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.5400 22.1 -0.002 -0.003 -0.002

TUBE: 49 09/26/96 11:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
11.2800 4.2 0.031 0.030 0.031

XRECOVERY = 112.6

197

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

Jms008

DATA VERIFIED BY:

RDG-114
9/27/96

DATA FILE NAME: SE27003.RAT
RUN NAME: 9627002F05

INSTRUMENT NO: 04725
DKG CORR: 02

ANALYST: CO

ELEMENT: SE

Concentration is used to evaluate if sample results are within calibration range.

198

Sample Data

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MR3DD

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585284

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.3	U		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	147	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	90800			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	167			P
7439-92-1	Lead	0.84	U	WN	F
7439-95-4	Magnesium	29000			P
7439-96-5	Manganese	530			P
7439-97-6	Mercury	0.011	B		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	3490	B		P
7782-49-2	Selenium	0.70	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	53900			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	5.7	B		P

Color Before: COLORLESS_

Clarity Before: CLEAR_____

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA1D

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585277

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	69.0	B		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	61.9	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	151000			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	235			P
7439-92-1	Lead	0.84	U	WN	F
7439-95-4	Magnesium	37900			P
7439-96-5	Manganese	1690			P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	5.7	B		P
7440-09-7	Potassium	4590	B		P
7782-49-2	Selenium	0.70	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	79100			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	5.5	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

6

DUP050307772

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA1S

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585276

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	627	-		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	93.7	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	8.2	B		P
7439-89-6	Iron	861			P
7439-92-1	Lead	4.0		SN	F
7439-95-4	Magnesium	38500			P
7439-96-5	Manganese	31.9			P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	975	B		P
7782-49-2	Selenium	1.4	B		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	30100			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	36.3			P

Color Before: COLORLESS_

Clarity Before: CLEAR_____

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

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DUP050307773

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA2D

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585278

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	130	B		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	105	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	74600			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	205			P
7439-92-1	Lead	0.84	U	WN	F
7439-95-4	Magnesium	27000			P
7439-96-5	Manganese	178			P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	3790	B		P
7782-49-2	Selenium	0.70	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	64800			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	6.8	B		P

Color Before: COLORLESS_

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

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DUP050307774

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA2S

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585279

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	542	-		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	66.8	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	650			P
7439-92-1	Lead	1.5	B	WN	F
7439-95-4	Magnesium	49200			P
7439-96-5	Manganese	37.3			P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	1620	B		P
7782-49-2	Selenium	123		S	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	52400			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	10.2	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

FORM I - IN

ILMO4.0

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA3D

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585283

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.3	U		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.7	B		F
7440-39-3	Barium	144	B		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	88300			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	160			P
7439-92-1	Lead	0.84	U	WN	F
7439-95-4	Magnesium	28300			P
7439-96-5	Manganese	514			P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	3350	B		P
7782-49-2	Selenium	0.70	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	52800			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	6.8	B		P

Color Before: COLORLESS_

Clarity Before: CLEAR_

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

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DUP050307776

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA3S

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585282

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.8	B		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.3	U		F
7440-39-3	Barium	244			P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	134000			P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	16.2	B		P
7439-92-1	Lead	0.84	U	WN	F
7439-95-4	Magnesium	42400			P
7439-96-5	Manganese	3.6	U		P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	1590	B		P
7782-49-2	Selenium	164		S	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	27000			P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	10.3	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

FORM I - IN

IILM04.0

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DUP050307777

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRA4S

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585281

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	234	—	—	P
7440-36-0	Antimony	12.3	U	—	P
7440-38-2	Arsenic	1.3	U	—	F
7440-39-3	Barium	44.6	B	—	P
7440-41-7	Beryllium	1.6	U	—	P
7440-43-9	Cadmium	3.3	U	—	P
7440-70-2	Calcium	330000	—	—	P
7440-47-3	Chromium	4.3	U	—	P
7440-48-4	Cobalt	4.2	U	—	P
7440-50-8	Copper	5.1	U	—	P
7439-89-6	Iron	580	—	—	P
7439-92-1	Lead	4.2	U	WN	F
7439-95-4	Magnesium	106000	—	—	P
7439-96-5	Manganese	214	—	—	P
7439-97-6	Mercury	0.0090	U	—	CV
7440-02-0	Nickel	4.8	U	—	P
7440-09-7	Potassium	4370	B	—	P
7782-49-2	Selenium	40.1	—	—	F
7440-22-4	Silver	1.7	U	—	P
7440-23-5	Sodium	98000	—	—	P
7440-28-0	Thallium	1.1	U	—	F
7440-62-2	Vanadium	5.2	U	—	P
7440-66-6	Zinc	16.7	B	—	P

Color Before: COLORLESS_

Clarity Before: CLEAR_____

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR_____

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

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DUP050307778

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MRAFB

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER

Lab Sample ID: 2585285

Level (low/med): LOW

Date Received: 09/21/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.3	U		P
7440-36-0	Antimony	12.3	U		P
7440-38-2	Arsenic	1.4	B		F
7440-39-3	Barium	2.1	U		P
7440-41-7	Beryllium	1.6	U		P
7440-43-9	Cadmium	3.3	U		P
7440-70-2	Calcium	61.0	B		P
7440-47-3	Chromium	4.3	U		P
7440-48-4	Cobalt	4.2	U		P
7440-50-8	Copper	5.1	U		P
7439-89-6	Iron	11.1	U		P
7439-92-1	Lead	0.84	U	N	F
7439-95-4	Magnesium	24.0	U		P
7439-96-5	Manganese	3.6	U		P
7439-97-6	Mercury	0.0090	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium	115	U		P
7782-49-2	Selenium	0.70	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium	115	B		P
7440-28-0	Thallium	1.1	U	W	F
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	10.7	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

FORM I - IN

ILM04.0

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DUP050307779

Quality Control Data

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	30000.0	30328.11	101.1	25000.0	24431.18	97.7	25140.02	100.6	P
Antimony	6000.0	5628.88	93.8	5000.0	4707.89	94.2	4730.77	94.6	P
Arsenic	50.0	49.38	98.8	40.0	41.54	103.8	43.83	109.6	F
Barium	6000.0	5697.89	95.0	5000.0	4774.24	95.5	4771.77	95.4	P
Beryllium	600.0	575.49	95.9	500.0	475.05	95.0	474.26	94.9	P
Cadmium	6000.0	5707.85	95.1	5000.0	4705.71	94.1	4704.77	94.1	P
Calcium	60000.0	59792.87	99.7	50000.0	49070.69	98.1	49005.58	98.0	P
Chromium	6000.0	5802.17	96.7	5000.0	4853.51	97.1	4831.61	96.6	P
Cobalt	1200.0	1115.53	93.0	1000.0	953.08	95.3	936.96	93.7	P
Copper	6000.0	5763.13	96.1	5000.0	4855.91	97.1	4855.79	97.1	P
Iron	6000.0	5817.52	97.0	5000.0	4849.17	97.0	4815.63	96.3	P
Lead	20.0	21.69	108.4	25.0	27.26	109.0	26.31	105.2	F
Magnesium	30000.0	30327.64	101.1	25000.0	24978.15	99.9	24898.22	99.6	P
Manganese	6000.0	5692.68	94.9	5000.0	4721.60	94.4	4703.87	94.1	P
Mercury	2.0	2.04	102.0	1.0	1.04	104.0	1.05	105.0	CV
Nickel	12000.0	11362.51	94.7	10000.0	9346.45	93.5	9329.10	93.3	P
Potassium	60000.0	60643.33	101.1	50000.0	49502.84	99.0	49952.03	99.9	P
Selenium	20.0	19.85	99.2	25.0	24.55	98.2	23.78	95.1	F
Silver	600.0	548.69	91.4	500.0	458.06	91.6	456.88	91.4	P
Sodium	60000.0	62217.87	103.7	50000.0	50450.95	100.9	51278.33	102.6	P
Thallium	50.0	50.19	100.4	40.0	41.55	103.9	42.93	107.3	F
Vanadium	2400.0	2379.20	99.1	2000.0	1959.17	98.0	1954.40	97.7	P
Zinc	6000.0	5699.41	95.0	5000.0	4720.07	94.4	4691.66	93.8	P

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

FORM II (PART 1) - IN

ILM04.0

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DUP050307781

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				25000.0	25777.18	103.1			P
Antimony				5000.0	4857.53	97.2			P
Arsenic	50.0	50.52	101.0	40.0	42.60	106.5	42.16	105.4	F
Barium				5000.0	4898.88	98.0			P
Beryllium				500.0	491.10	98.2			P
Cadmium				5000.0	4882.49	97.6			P
Calcium				50000.0	50867.64	101.7			P
Chromium				5000.0	5003.91	100.1			P
Cobalt				1000.0	974.86	97.5			P
Copper				5000.0	4980.24	99.6			P
Iron				5000.0	5005.44	100.1			P
Lead				25.0	26.88	107.5			F
Magnesium				25000.0	25368.12	101.5			P
Manganese				5000.0	4864.03	97.3			P
Mercury				1.0	0.97	97.0	1.03	103.0	CV
Nickel				10000.0	9657.98	96.6			P
Potassium				50000.0	51198.66	102.4			P
Selenium				25.0	23.23	92.9	23.04	92.2	F
Silver				500.0	469.50	93.9			P
Sodium				50000.0	52311.55	104.6			P
Thallium				40.0	42.69	106.7	42.31	105.8	F
Vanadium				2000.0	2012.71	100.6			P
Zinc				5000.0	4851.74	97.0			P

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

FORM II (PART 1) - IN

ILM04.0

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Initial Calibration Source: LLI _____

Continuing Calibration Source: LLI _____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				40.0	41.65	104.1			F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	20.0	19.90	99.5	25.0	26.11	104.4	26.29	105.2	F
Magnesium									NR
Manganese									NR
Mercury				1.0	1.03	103.0	1.02	102.0	CV
Nickel									NR
Potassium									NR
Selenium				25.0	22.86	91.4			F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

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

FORM II (PART 1) - IN

ILM04.0

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: FMD03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	20.0	20.69	103.4	25.0	25.95	103.8	25.69	102.8	F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	20.0	19.58	97.9	25.0	24.85	99.4	24.76	99.0	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

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

FORM II (PART 1) - IN

ILM04.0

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: FMD03

Initial Calibration Source: LLI

Continuing Calibration Source: LLI

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.18	96.7	24.67	98.7	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

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

FORM II (PART 1) - IN

ILM04.0

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Initial Calibration Source: LLI _____

Continuing Calibration Source: LLI _____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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									NR
Nickel									NR
Potassium									NR
Selenium	20.0	19.08	95.4	25.0	24.26	97.0	23.80	95.2	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

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

FORM II (PART 1) - IN

ILM04.0

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U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Initial Calibration Source: LLI _____

Continuing Calibration Source: LLI _____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
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									NR
Nickel									NR
Potassium									NR
Selenium	20.0	19.01	95.0	25.0	24.62	98.5	24.55	98.2	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR

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

FORM II (PART 1) - IN

ILM04.0

21

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

AA CRDL Standard Source: LLI

ICP CRDL Standard Source: LLI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	125.87	104.9	130.48	108.7
Arsenic	10.0	10.72	107.2					
Barium								
Beryllium				10.0	9.81	98.1	9.81	98.1
Cadmium				10.0	9.38	93.8	8.89	88.9
Calcium								
Chromium				20.0	17.60	88.0	17.58	87.9
Cobalt				100.0	99.30	99.3	107.98	108.0
Copper				50.0	53.77	107.5	51.23	102.5
Iron								
Lead	3.0	3.12	104.0					
Magnesium								
Manganese				30.0	31.31	104.4	32.67	108.9
Mercury	0.2	0.19	95.0					
Nickel				80.0	79.25	99.1	78.66	98.3
Potassium								
Selenium	5.0	4.07	81.4					
Silver				20.0	20.35	101.8	21.14	105.7
Sodium								
Thallium	10.0	14.09	140.9					
Vanadium				100.0	99.96	100.0	101.42	101.4
Zinc				40.0	39.46	98.6	39.49	98.7

FORM II (PART 2) - IN

ILM04.0

22

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

AA CRDL Standard Source: LLI _____

ICP CRDL Standard Source: LLI _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic	10.0	10.82	108.2					
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	3.29	109.7					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	4.05	81.0					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

IIM04.0

23

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

AA CRDL Standard Source: LLI _____

ICP CRDL Standard Source: LLI _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	3.83	127.7					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	3.63	72.6					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

ILM04.0

24

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

AA CRDL Standard Source: LLI _____

ICP CRDL Standard Source: LLI _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	4.54	90.8					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

ILM04.0

25

U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L) C		Continuing Calibration Blank (ug/L)						Preparation Blank C		M
	1	C	2	C	3	C					
Aluminum	117	B	22.3	U	22.3	U	29.8	B	22.300	U	P
Antimony	23.9	B	20.9	B	24.0	B	19.9	B	12.300	U	P
Arsenic	1.3	U	1.3	U	1.3	U			1.300	U	F
Barium	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Beryllium	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Cadmium	3.3	U	3.3	U	3.3	U	3.3	U	3.300	U	P
Calcium	188	B	25.0	U	25.0	U	35.9	B	25.000	U	P
Chromium	4.3	U	4.3	U	-4.4	B	4.3	U	4.300	U	P
Cobalt	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Copper	7.2	B	7.0	B	5.1	U	5.1	U	5.100	U	P
Iron	11.1	U	15.8	B	11.1	U	15.3	B	11.100	U	P
Lead	0.84	U	0.84	U	0.84	U	0.84	U	0.840	U	F
Magnesium	61.9	B	24.0	U	24.0	U	24.0	U	24.000	U	P
Manganese	4.1	B	3.6	U	3.6	U	3.6	U	3.600	U	P
Mercury	-0.017	B	-0.020	B	-0.028	B	-0.031	B	0.009	U	CV
Nickel	-5.1	B	4.8	U	4.8	U	4.8	U	4.800	U	P
Potassium	115	U	115	U	115	U	115	U	115.000	U	P
Selenium	-0.91	B	-1.1	B	-1.2	B	-1.3	B	-1.540	B	F
Silver	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Sodium	61.6	U	61.6	U	61.6	U	62.7	B	61.600	U	P
Thallium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	F
Vanadium	5.2	U	5.2	U	5.2	U	5.2	U	5.200	U	P
Zinc	4.8	U	4.8	U	4.8	U	4.8	U	6.500	B	P

FORM III - IN

ILM04.0

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U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

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)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony											NR
Arsenic	1.3	U	1.3	U	1.3	U	1.3	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	0.84	U	0.84	U	0.84	U					F
Magnesium											NR
Manganese											NR
Mercury			-0.029	B	-0.029	B	-0.031	B			CV
Nickel											NR
Potassium											NR
Selenium			-2.2	B	-0.85	B					F
Silver											NR
Sodium											NR
Thallium			1.1	U							F
Vanadium											NR
Zinc											NR

FORM III - IN

ILM04.0

27

U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

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)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	0.84	U	0.84	U	0.84	U					F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	-0.98	B	-1.2	B	-1.5	B	0.70	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR

FORM III - IN

ILM04.0

28

DUP050307794

U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

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)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
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											NR
Nickel											NR
Potassium											NR
Selenium			-1.2	B							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR

FORM III - IN

ILM04.0

29

DUP050307795

U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
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											NR
Nickel											NR
Potassium											NR
Selenium	-1.4	B	-1.8	B	-1.4	B					F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR

FORM III - IN

IIM04.0

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U.S. EPA - CLP

3
BLANKS

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
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											NR
Nickel											NR
Potassium											NR
Selenium	-0.75	B	0.70	U	0.70	U					F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR

FORM III - IN

ILM04.0

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U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

ICP ID Number: 02360

ICS Source: LLI

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	479747	483642.3	96.7	485924	488926.0	97.8
Antimony	0	600	-27	581.7	97.0	-9	577.5	96.2
Arsenic								
Barium	0	500	7	478.7	95.7	6	488.2	97.6
Beryllium	0	500	0	464.4	92.9	0	478.2	95.6
Cadmium	0	1000	8	876.8	87.7	5	890.5	89.0
Calcium	500000	500000	468825	471634.0	94.3	478095	483345.4	96.7
Chromium	0	500	4	455.6	91.1	2	466.9	93.4
Cobalt	0	500	0	435.9	87.2	1	450.5	90.1
Copper	0	500	0	469.3	93.9	-4	474.9	95.0
Iron	200000	200000	175903	177409.6	88.7	179313	181290.3	90.6
Lead								
Magnesium	500000	500000	484312	488215.8	97.6	488664	492145.9	98.4
Manganese	0	500	-18	424.7	84.9	-21	431.6	86.3
Mercury								
Nickel	0	1000	-9	858.8	85.9	-10	880.3	88.0
Potassium	0	0	71	105.2		28	51.4	
Selenium								
Silver	0	200	4	189.6	94.8	5	192.3	96.2
Sodium	0	0	115	31.1		32	52.0	
Thallium								
Vanadium	0	500	2	463.7	92.7	2	474.2	94.8
Zinc	0	1000	16	886.5	88.6	15	904.4	90.4

FORM IV - IN

ILM04.0

33

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MRA2SS

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

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

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2587.3800	542.0400	2000.00	102.3	-	P
Antimony	75-125	528.6400	12.3000	500.00	105.7	-	P
Arsenic	75-125	40.2000	1.3000	40.00	100.5	-	F
Barium	75-125	2013.2000	66.8500	2000.00	97.3	-	P
Beryllium	75-125	49.9300	1.6000	50.00	99.9	-	P
Cadmium	75-125	45.9600	3.3000	50.00	91.9	-	P
Calcium						-	NR
Chromium	75-125	199.2500	4.3000	200.00	99.6	-	P
Cobalt	75-125	476.9800	4.2000	500.00	95.4	-	P
Copper	75-125	246.5900	5.1000	250.00	98.6	-	P
Iron	75-125	1602.0500	649.8700	1000.00	95.2	-	P
Lead	75-125	14.3000	1.5100	20.00	64.0	N	F
Magnesium						-	NR
Manganese	75-125	513.5700	37.3400	500.00	95.2	-	P
Mercury	75-125	1.1100	0.0090	1.00	111.0	-	CV
Nickel	75-125	478.7500	4.8000	500.00	95.8	-	P
Potassium						-	NR
Selenium		100.6500	122.6562	10.00	-220.1	-	F
Silver	75-125	46.3200	1.7000	50.00	92.6	-	P
Sodium						-	NR
Thallium	75-125	45.2300	1.1000	50.00	90.5	-	F
Vanadium	75-125	488.8600	5.2000	500.00	97.8	-	P
Zinc	75-125	485.6700	10.1800	500.00	95.1	-	P

Comments:

FORM V (PART 1) - IN

ILM04.0

33

DUP050307799

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MRA2SD

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER _____ Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	542.0400		515.6700		5.0		P
Antimony		12.3000	U	12.3000	U			P
Arsenic		1.3000	U	1.3800	B	200.0		F
Barium		66.8500	B	66.8500	B	0.0		P
Beryllium		1.6000	U	1.6000	U			P
Cadmium		3.3000	U	3.3000	U			P
Calcium		143917.6400		142817.0400		0.8		P
Chromium		4.3000	U	4.3000	U			P
Cobalt		4.2000	U	4.2000	U			P
Copper		5.1000	U	5.1000	U			P
Iron		649.8700		610.4500		6.3		P
Lead		1.5100	B	0.8400	U	200.0		F
Magnesium		49241.3500		48932.1700		0.6		P
Manganese	15.0	37.3400		37.3600		0.1		P
Mercury		0.0090	U	0.0140	B	200.0		CV
Nickel		4.8000	U	4.8000	U			P
Potassium		1623.3200	B	1578.1900	B	2.8		P
Selenium	25.0	122.6562		135.9551		10.3		F
Silver		1.7000	U	1.7000	U			P
Sodium		52443.6200		52255.2600		0.4		P
Thallium		1.1000	U	1.1000	U			F
Vanadium		5.2000	U	5.2000	U			P
Zinc		10.1800	B	10.1700	B	0.1		P

FORM VI - IN

IIM04.0

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U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Solid LCS Source: _____

Aqueous LCS Source: LLI _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000.0	2000.02	100.0					
Antimony	500.0	542.27	108.5					
Arsenic	40.0	37.64	94.1					
Barium	2000.0	1988.44	99.4					
Beryllium	50.0	49.48	99.0					
Cadmium	50.0	47.11	94.2					
Calcium	4000.0	4056.94	101.4					
Chromium	200.0	200.20	100.1					
Cobalt	500.0	495.29	99.1					
Copper	250.0	252.71	101.1					
Iron	1000.0	1024.57	102.5					
Lead	20.0	20.17	100.8					
Magnesium	2000.0	2035.18	101.8					
Manganese	500.0	487.77	97.6					
Mercury	1.0	1.05	105.0					
Nickel	500.0	495.90	99.2					
Potassium	4000.0	3975.35	99.4					
Selenium	10.0	8.32	83.2					
Silver	50.0	49.60	99.2					
Sodium	4000.0	4101.31	102.5					
Thallium	50.0	50.93	101.9					
Vanadium	500.0	500.51	100.1					
Zinc	500.0	498.04	99.6					

FORM VII - IN

ILM04.0

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8

STANDARD ADDITION RESULTS

Contract: _____

SDG No. : FMD03

[illegible]

ILMO4.0

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MRA2S L

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Matrix (soil/water): WATER _____ Level (low/med): LOW _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	542.04		593.60	B	9.5	-	P
Antimony	12.30	U	63.50	B		-	P
Arsenic						-	
Barium	66.85	B	70.15	B	4.9	-	P
Beryllium	1.60	U	8.00	U		-	P
Cadmium	3.30	U	16.50	U		-	P
Calcium	143917.64		147672.60		2.6	-	P
Chromium	4.30	U	21.50	U		-	P
Cobalt	4.20	U	21.00	U		-	P
Copper	5.10	U	25.50	U		-	P
Iron	649.87		694.65		6.9	-	P
Lead						-	
Magnesium	49241.35		50499.80		2.6	-	P
Manganese	37.34		54.95	B	47.2	-	P
Mercury						-	
Nickel	4.80	U	24.00	U		-	P
Potassium	1623.32	B	1826.20	B	12.5	-	P
Selenium						-	
Silver	1.70	U	8.50	U		-	P
Sodium	52443.62		53008.75		1.1	-	P
Thallium						-	
Vanadium	5.20	U	26.00	U		-	P
Zinc	10.18	B	52.90	B	419.6	-	P

FORM IX - IN

ILM04.0

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Verification of Instrument Parameters

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

ICP ID Number: _____ 02360 Date: 07/15/96

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	22.3	P
Antimony	206.83		60	12.3	P
Arsenic					NR
Barium	493.40		200	2.1	P
Beryllium	313.04		5	1.6	P
Cadmium	226.50		5	3.3	P
Calcium	317.93		5000	25.0	P
Chromium	267.71		10	4.3	P
Cobalt	228.61		50	4.2	P
Copper	324.75		25	5.1	P
Iron	259.94		100	11.1	P
Lead					NR
Magnesium	279.07		5000	24.0	P
Manganese	257.61		15	3.6	P
Mercury					NR
Nickel	231.60		40	4.8	P
Potassium	766.49		5000	115	P
Selenium					NR
Silver	328.06		10	1.7	P
Sodium	589.59		5000	61.6	P
Thallium					NR
Vanadium	292.40		50	5.2	P
Zinc	213.85		20	4.8	P

Comments:

FORM X - IN

ILM04.0

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U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

ICP ID Number: _____

Date: 07/15/96

Flame AA ID Number: _____

Furnace AA ID Number: 02803

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	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					NR
Nickel					NR
Potassium					NR
Selenium					NR
Silver					NR
Sodium					NR
Thallium	276.80	BD	10	1.1	F
Vanadium					NR
Zinc					NR

Comments:

FORM X - IN

ILM04.0

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U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LANCASTER LABORATORIES _____ Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03 _____
ICP ID Number: _____ Date: 07/15/96
Flame AA ID Number: _____
Furnace AA ID Number: 03812 _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					NR
Antimony					NR
Arsenic					NR
Barium					NR
Beryllium					NR
Cadmium					NR
Calcium					NR
Chromium					NR
Cobalt					NR
Copper					NR
Iron					NR
Lead	283.30	BZ	3	0.84	F
Magnesium					NR
Manganese					NR
Mercury					NR
Nickel					NR
Potassium					NR
Selenium					NR
Silver					NR
Sodium					NR
Thallium					NR
Vanadium					NR
Zinc					NR

Comments:

FORM X - IN

ILM04.0

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10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					NR
Antimony					NR
Arsenic	193.70	BZ	10	1.3	F
Barium					NR
Beryllium					NR
Cadmium					NR
Calcium					NR
Chromium					NR
Cobalt					NR
Copper					NR
Iron					NR
Lead					NR
Magnesium					NR
Manganese					NR
Mercury					NR
Nickel					NR
Potassium					NR
Selenium					NR
Silver					NR
Sodium					NR
Thallium					NR
Vanadium					NR
Zinc					NR

DUP050307808

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LANCASTER LABORATORIES Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03____
ICP ID Number: _____ Date: 07/15/96
Flame AA ID Number: _____
Furnace AA ID Number: 04725

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	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					NR
Nickel					NR
Potassium					NR
Selenium	196.00	BZ	5	0.70	F
Silver					NR
Sodium					NR
Thallium					NR
Vanadium					NR
Zinc					NR

Comments:

FORM X - IN

ILM04.0

DUP050307809

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	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	254.00		0.2	0.0090	CV
Nickel					NR
Potassium					NR
Selenium					NR
Silver					NR
Sodium					NR
Thallium					NR
Vanadium					NR
Zinc					NR

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U.S. EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: LANCASTER LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

ICP ID Number: 02360 Date: 09/12/96

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	BA
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0001660	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000230	0.0000000	0.0003090	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	-0.0000960	-0.0000200	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0007050
Copper	324.75	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.07	0.0000000	0.0001830	-0.0001000	0.0000000	0.0000000
Manganese	257.61	-0.0000100	0.0000060	-0.0000530	0.0000400	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	-0.0002000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	-0.0000190	-0.0003420	-0.0000100	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000
Zinc	213.85	-0.0000180	0.0000000	0.0001370	0.0000090	0.0000000

Comments:

FORM XI (PART 1) - IN

ILM04.0

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DUP050307811

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

ICP ID Number: 02360

Date: 09/12/96

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		CD	CO	CR	CU	MN
Aluminum	308.21	0.0000000	-0.0172320	0.0000000	0.0000000	0.0002970
Antimony	206.83	0.0000000	0.0000000	0.0071050	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0004200	0.0000000	0.0000000
Chromium	267.71	0.0002360	0.0000000	0.0000000	0.0000000	0.0000800
Cobalt	228.61	0.0007480	0.0000000	0.0001000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0001000
Lead						
Magnesium	279.07	0.0000000	-0.0015690	-0.0008500	0.0000000	-0.0085400
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0003800	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0013660	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0011180	0.0000000	-0.0002000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000900
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-0.0023290	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0038820	0.0000000

Comments:

FORM XI (PART 2) - IN

ILM04.0

DUP050307812

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

ICP ID Number: 02360

Date: 09/12/96

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		MO	NI	SB	SN	TI
Aluminum	308.21	-0.0069690	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0014310	0.0004510	0.0000000	-0.0019600	0.0013270
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0001140	0.0000460	0.0000000	0.0000000	0.0002900
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0023260
Chromium	267.71	-0.0026620	0.0000000	0.0000000	0.0000000	0.0001400
Cobalt	228.61	0.0000000	0.0002320	0.0000000	0.0000000	0.0018800
Copper	324.75	0.0005340	0.0000000	0.0000000	0.0000000	0.0004750
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	-0.0032890
Lead						
Magnesium	279.07	-0.0185040	0.0000000	0.0000000	0.0000000	-0.0044080
Manganese	257.61	-0.0002990	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0022180	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0005230
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001600
Sodium	589.59	0.0031250	0.0000000	0.0000000	0.0000000	0.0050000
Thallium						
Vanadium	292.40	-0.0059350	0.0000000	0.0000000	0.0000000	0.0001790
Zinc	213.85	0.0000000	0.0033870	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (PART 2) - IN

ILM04.0

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DUP050307813

U.S. EPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

ICP ID Number: 02360

Date: 07/15/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	7.00	600000.0	P
Antimony	7.00	200000.0	P
Arsenic			NR
Barium	7.00	100000.0	P
Beryllium	7.00	10000.0	P
Cadmium	7.00	100000.0	P
Calcium	7.00	600000.0	P
Chromium	7.00	100000.0	P
Cobalt	7.00	100000.0	P
Copper	7.00	100000.0	P
Iron	7.00	250000.0	P
Lead			NR
Magnesium	7.00	600000.0	P
Manganese	7.00	100000.0	P
Mercury			NR
Nickel	7.00	100000.0	P
Potassium	7.00	900000.0	P
Selenium			NR
Silver	7.00	50000.0	P
Sodium	7.00	900000.0	P
Thallium			NR
Vanadium	7.00	100000.0	P
Zinc	7.00	100000.0	P

Comments:

FORM XII - IN

IIM04.0

Preparation and Run Logs

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSW	09/25/96		100
MR3DD	09/25/96		100
MRA1D	09/25/96		100
MRA1S	09/25/96		100
MRA2D	09/25/96		100
MRA2S	09/25/96		100
MRA2SD	09/25/96		100
MRA2SS	09/25/96		100
MRA3D	09/25/96		100
MRA3S	09/25/96		100
MRA4S	09/25/96		100
MRAFB	09/25/96		100
PBW	09/25/96		100

FORM XIII - IN

ILM04.0

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U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSW	09/25/96		100
MR3DD	09/25/96		100
MRA1D	09/25/96		100
MRA1S	09/25/96		100
MRA2D	09/25/96		100
MRA2S	09/25/96		100
MRA2SD	09/25/96		100
MRA2SS	09/25/96		100
MRA3D	09/25/96		100
MRA3S	09/25/96		100
MRA4S	09/25/96		100
MRAFB	09/25/96		100
PBW	09/25/96		100

FORM XIII - IN

ILM04.0

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DUP050307817

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSW	09/24/96		8
MR3DD	09/24/96		8
MRA1D	09/24/96		8
MRA1S	09/24/96		8
MRA2D	09/24/96		8
MRA2S	09/24/96		8
MRA2SD	09/24/96		8
MRA2SS	09/24/96		8
MRA3D	09/24/96		8
MRA3S	09/24/96		8
MRA4S	09/24/96		8
MRAFB	09/24/96		8
PBW	09/24/96		8

FORM XIII - IN

ILM04.0

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DUP050307818

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Instrument ID Number: 02360

Method: P

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	2106		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
S	1.00	2109		-	X	-	X	X	-	-	X	X	X	-	-	-	-	X	-	-	-	-	-	X	X	-	
S	1.00	2113		-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S	1.00	2116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S	1.00	2119		X	-	-	-	-	-	X	-	-	-	-	X	-	-	-	X	-	X	-	-	-	-	-	
ICV	1.00	2122		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
ICB	1.00	2126		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CRI	1.00	2130		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
ICSA	1.00	2134		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
ICSAB	1.00	2138		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CCV	1.00	2142		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CCB	1.00	2146		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
PBW	1.00	2150		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
LCSW	1.00	2154		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA2S	1.00	2158		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA2SA	1.00	2202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SD	1.00	2206		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA2SS	1.00	2210		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA2SL	5.00	2214		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA1S	1.00	2218		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA1D	1.00	2222		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA2D	1.00	2226		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CCV	1.00	2230		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CCB	1.00	2234		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA4S	1.00	2238		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA3S	1.00	2242		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRA3D	1.00	2246		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MR3DD	1.00	2250		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
MRAFB	1.00	2254		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
CRI	1.00	2258		X	X	-	-	X	X	-	X	X	X	-	-	X	-	X	-	X	-	X	-	X	X	-	
ICSA	1.00	2302		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	
ICSAB	1.00	2306		X	X	-	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-	

FORM XIV - IN

ILM04.0

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U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Instrument ID Number: 02360

Method: P

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
CCV	1.00	2310		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	2314		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-

FORM XIV - IN

ILM04.0

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DUP050307820

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04724

Method: F

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V L	Z N	
S0	1.00	1620		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S10	1.00	1624		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S20	1.00	1629		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S40	1.00	1633		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S60	1.00	1637		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S80	1.00	1641		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ICV	1.00	1646		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ICB	1.00	1650		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CRA	1.00	1654		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1658		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	1702		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PBW	1.00	1706		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PBWA	1.00	1710	96.6	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LCSW	1.00	1715		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LCSWA	1.00	1719	106.3	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2S	1.00	1724		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SA	1.00	1728	111.0	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SD	1.00	1732		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SDA	1.00	1737	100.2	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SS	1.00	1741		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1745		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1749		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	1753		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

FORM XIV - IN

ILM04.0

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DUP050307821

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04724

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
S0	1.00	0415		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S10	1.00	0419		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S20	1.00	0424		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S40	1.00	0428		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S60	1.00	0432		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S80	1.00	0436		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	0440		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	0445		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	0449		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0453		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0457		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA1S	1.00	0501		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA1SA	1.00	0505	106.4	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA1D	1.00	0510		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA1DA	1.00	0514	93.6	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2D	1.00	0519		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2DA	1.00	0523	106.4	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA4S	1.00	0527		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA4SA	1.00	0532	90.2	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA3S	1.00	0536		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA3SA	1.00	0540	102.6	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0544		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0548		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA3D	1.00	0552		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA3DA	1.00	0557	98.4	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MR3DD	1.00	0601		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MR3DDA	1.00	0605	98.2	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRAFB	1.00	0609		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRAFBA	1.00	0614	85.8	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0618		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0622		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0626		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM XIV - IN

IIM04.0

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DUP050307822

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04724

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
ZZZZZZ	1.00	0630		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CCV	1.00	0634		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CCB	1.00	0638		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

FORM XIV - IN

ILM04.0

57

DUP050307823

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 03812

Method: F

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	1625												X													
S3	1.00	1630												X													
S9	1.00	1635												X													
S15	1.00	1640												X													
S30	1.00	1645												X													
S60	1.00	1650												X													
ICV	1.00	1654												X													
ICB	1.00	1659												X													
CRA	1.00	1704												X													
CRAA	1.00	1708																									
CCV	1.00	1713												X													
CCB	1.00	1718												X													
PBW	1.00	1722												X													
PBWA	1.00	1727	92.6											X													
LCSW	1.00	1732												X													
LCSWA	1.00	1736	81.4											X													
MRA2S	1.00	1741												X													
MRA2SA	1.00	1746	54.5											X													
MRA2SD	1.00	1750												X													
MRA2SDA	1.00	1755	53.3											X													
MRA2SS	1.00	1800												X													
ZZZZZZ	1.00	1805																									
CCV	1.00	1809												X													
CCB	1.00	1814												X													
MRA1S	1.00	1818																									
MRA1SA	1.00	1823	64.4																								
MRA1D	1.00	1827												X													
MRA1DA	1.00	1832	54.8											X													
MRA2D	1.00	1837												X													
MRA2DA	1.00	1842	67.0											X													
MRA4S	1.00	1846																									
MRA4SA	1.00	1851	32.6																								

FORM XIV - IN

ILM04.0

58

DUP050307824

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 03812

Method: F

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N T	T A	V L	Z N	
MRA3S	1.00	1855		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
MRA3SA	1.00	1900	64.4	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1905		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	1909		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	

FORM XIV - IN

ILM04.0

59

DUP050307825

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 03812

Method: F

Start Date: 09/25/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	2334		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
S3	1.00	2339		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
S9	1.00	2344		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
S15	1.00	2348		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
S30	1.00	2353		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
S60	1.00	2358		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
ICV	1.00	0003		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
ICB	1.00	0007		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
CRA	1.00	0012		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
CRAA	1.00	0017		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	0021		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	0026		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRA4S	5.00	0031		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRA4SA	5.00	0035	84.9	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRA3D	1.00	0040		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRA3DA	1.00	0045	65.5	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MR3DD	1.00	0049		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MR3DDA	1.00	0054	70.0	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRAFB	1.00	0059		-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	
MRAFBA	1.00	0104	96.4	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	0108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	0113		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	0117		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	0122		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	

FORM XIV - IN

ILM04.0

60

DUP050307826

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 03812

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	0454		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
S3	1.00	0456		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
S9	1.00	0459		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
S15	1.00	0502		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
S30	1.00	0504		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
S60	1.00	0507		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
ICV	1.00	0510		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
ICB	1.00	0512		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CRA	1.00	0515		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	0517		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	0520		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
MRA1S0	1.00	0522		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
MRA1S1	1.00	0525		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
MRA1S2	1.00	0527		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
MRA1S3	1.00	0530		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	0532		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	
CCB	1.00	0535		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	

FORM XIV - IN

ILM04.0

61

DUP050307827

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
S0	1.00	0837		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
S5	1.00	0841		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
S15	1.00	0845		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
S25	1.00	0849		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
S40	1.00	0853		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
S50	1.00	0857		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ICV	1.00	0901		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ICB	1.00	0905		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CRA	1.00	0909		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	0913		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	0917		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ZZZZZZ	1.00	0921		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0925		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0938		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0942		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0946		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0950		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0955		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0959		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1003		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ZZZZZZ	1.00	1010		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1015		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1019		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1023		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1027		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1031		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1035		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1039		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1043		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM XIV - IN

ILM04.0

62

DUP050307828

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
ZZZZZZ	1.00	1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1051		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1055		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ZZZZZZ	1.00	1059		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1107		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1119		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1123		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1135		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1143		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-
PBW	1.00	1147		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-
PBWA	1.00	1151	112.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-
LCSW	1.00	1155		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-
LCSWA	1.00	1159	162.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-
MRA2S	1.00	1204		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2SA	1.00	1208	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2SD	1.00	1212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2SDA	1.00	1216	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRA2SS	1.00	1220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1224		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1229		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1233		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-

FORM XIV - IN

ILM04.0

66

DUP050307829

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A L	T L	V	Z N	
S0	1.00	1546		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
S5	1.00	1550		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
S15	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
S25	1.00	1558		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
S40	1.00	1602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
S50	1.00	1606		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
ICV	1.00	1610		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
ICB	1.00	1614		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
CRA	1.00	1618		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
CCV	1.00	1622		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
CCB	1.00	1626		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
ZZZZZZ	1.00	1630		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1635		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1639		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1643		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2S	5.00	1647		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SA	5.00	1651	118.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SD	5.00	1656		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SDA	5.00	1700	122.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA2SS	5.00	1704		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
ZZZZZZ	5.00	1708		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1712		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
CCB	1.00	1716		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA1S	1.00	1720		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA1SA	1.00	1724	95.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA1D	1.00	1728		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA1DA	1.00	1732	91.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA2D	1.00	1736		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA2DA	1.00	1740	113.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	
MRA4S	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA4SA	1.00	1749	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA3S	5.00	1753		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

FORM XIV - IN

ILM04.0

64

DUP050307830

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
MRA3SA	5.00	1757	139.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1805		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MRA3D	1.00	1808		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MRA3DA	1.00	1812	99.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MR3DD	1.00	1817		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MR3DDA	1.00	1820	99.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MRAFB	1.00	1825		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
MRAFBA	1.00	1829	110.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ZZZZZZ	1.00	1833		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1837		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1841		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1845		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1849		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1853		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-

FORM XIV - IN

ILM04.0

65

DUP050307831

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/26/96

End Date: 09/26/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A L	T L	V N	Z N	
S0	1.00	2213																		X							
S5	1.00	2217																		X							
S15	1.00	2221																		X							
S25	1.00	2225																		X							
S40	1.00	2229																		X							
S50	1.00	2233																		X							
ICV	1.00	2237																		X							
ICB	1.00	2241																		X							
CRA	1.00	2245																		X							
CCV	1.00	2249																		X							
CCB	1.00	2253																		X							
MRA4S	2.00	2257																		X							
MRA4SA	2.00	2301	95.1																	X							
ZZZZZZ	5.00	2306																									
ZZZZZZ	5.00	2310																									
ZZZZZZ	5.00	2314																									
ZZZZZZ	5.00	2318																									
ZZZZZZ	5.00	2322																									
ZZZZZZ	5.00	2326																									
ZZZZZZ	5.00	2331																									
ZZZZZZ	5.00	2335																									
CCV	1.00	2339																		X							
CCB	1.00	2343																		X							

FORM XIV - IN

ILM04.0

66

DUP050307832

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/27/96

End Date: 09/27/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	0112		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
S5	1.00	0114		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
S15	1.00	0116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
S25	1.00	0118		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
S40	1.00	0120		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
S50	1.00	0122		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
ICV	1.00	0125		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
ICB	1.00	0127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
CRA	1.00	0129		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
CCV	1.00	0131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
CCB	1.00	0133		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
ZZZZZZ0	10.00	0135		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
ZZZZZZ1	10.00	0137		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ2	10.00	0139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ3	10.00	0141		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MRA2S0	5.00	0143		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2S1	5.00	0145		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2S2	5.00	0147		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2S3	5.00	0149		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2SD0	5.00	0151		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2SD1	5.00	0153		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2SD2	5.00	0155		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA2SD3	5.00	0157		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA3S0	5.00	0159		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA3S1	5.00	0200		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA3S2	5.00	0202		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
MRA3S3	5.00	0204		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		
ZZZZZZ0	10.00	0206		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		
ZZZZZZ1	10.00	0208		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		
ZZZZZZ2	10.00	0211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		
ZZZZZZ3	10.00	0213		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		
CCV	1.00	0215		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-		

FORM XIV - IN

ILM04.0

67

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 04725

Method: F

Start Date: 09/27/96

End Date: 09/27/96

EPA Sample No.	D/F	Time	% R	Analytes															
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I
CCB	1.00	0217		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM XIV - IN

ILM04.0

68

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 02803

Method: F

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
S0	1.00	2101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S10	1.00	2105		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S20	1.00	2108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S40	1.00	2112		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S60	1.00	2116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
S80	1.00	2119		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
ICV	1.00	2123		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
ICB	1.00	2126		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
CRA	1.00	2129		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
CRAA	1.00	2133		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	2136		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
CCB	1.00	2140		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
PBW	1.00	2143		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
PBWA	1.00	2146	101.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
LCSW	1.00	2150		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
LCSWA	1.00	2153	97.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2S	1.00	2156		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2SA	1.00	2200	98.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2SD	1.00	2203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2SDA	1.00	2207	95.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2SS	1.00	2210		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
ZZZZZZ	1.00	2214		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
CCV	1.00	2217		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
CCB	1.00	2220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA1S	1.00	2223		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA1SA	1.00	2227	105.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA1D	1.00	2230		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA1DA	1.00	2234	106.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2D	1.00	2237		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA2DA	1.00	2240	91.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA4S	1.00	2243		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	
MRA4SA	1.00	2247	97.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	

FORM XIV - IN

ILM04.0

69

DUP050307835

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 02803

Method: F

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	P E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N		
MRA3S	1.00	2250		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MRA3SA	1.00	2254	109.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
CCV	1.00	2257		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
CCB	1.00	2300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MRA3D	1.00	2303		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MRA3DA	1.00	2307	96.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MR3DD	1.00	2310		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MR3DDA	1.00	2314	94.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MRAFB	1.00	2317		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
MRAFBA	1.00	2321	119.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
ZZZZZZ	1.00	2324		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	2327		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	2331		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	2334		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	2338		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	
CCB	1.00	2341		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	

FORM XIV - IN

ILM04.0

70

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 05220

Method: CV

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
S0	1.00	1714		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
S0.2	1.00	1716		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
S0.5	1.00	1718		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
S1.0	1.00	1721		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
S2.5	1.00	1723		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
S5.0	1.00	1726		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
ICV	1.00	1728		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
ICB	1.00	1731		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
CRA	1.00	1733		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
CCV	1.00	1735		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
CCB	1.00	1738		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1742		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1747		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1749		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1751		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1754		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1756		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1758		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1803		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
CCB	1.00	1805		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1807		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1809		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1812		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1814		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1816		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1818		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1821		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1823		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1825		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM XIV - IN

ILM04.0

71

DUP050307837

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: FMD03

Instrument ID Number: 05220

Method: CV

Start Date: 09/25/96

End Date: 09/25/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	
ZZZZZZ	1.00	1827		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1830		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	
CCB	1.00	1832		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1834		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1837		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1839		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1841		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1844		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1846		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1848		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1850		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1853		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1855		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1857		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	
CCB	1.00	1859		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	
PBW	1.00	1902		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	
LCSW	1.00	1904		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA1S	1.00	1906		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA1D	1.00	1909		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA2D	1.00	1911		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA2S	1.00	1913		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA2SD	1.00	1915		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA2SS	1.00	1918		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA4S	1.00	1920		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA3S	1.00	1922		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
CCV	1.00	1925		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
CCB	1.00	1927		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRA3D	1.00	1929		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MR3DD	1.00	1932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
MRAFB	1.00	1934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
CCV	1.00	1936		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	
CCB	1.00	1938		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	

FORM XIV - IN

ILM04.0

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DUP050307838

Raw Data

ICP Data

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Lancaster Laboratories

Data Reviewed By:

MD/42 9/26/96

Data Verified By:

M. Dravely 9-28-96

Data File Name: 26903I11.DAT

Analyst: 811

Run Name: 9626903I11

Instrument Parameters:

Rinse Time: 60 sec
Individual Integration Time: 7 sec
Total Integration Time: 21 sec

Element Symbol	Element Name	Wavelength(nm)
Ag	Silver	328.06
Al	Aluminum	308.21
As	Arsenic	193.69
B	Boron	249.77
Ba	Barium	493.40
Be	Beryllium	313.04
Ca	Calcium	317.93
Cd	Cadmium	226.50
Co	Cobalt	228.61
Cr	Chromium	267.71
Cu	Copper	324.75
Fe	Iron	259.94
K	Potassium	766.49
Li	Lithium	670.78
Mg	Magnesium	279.07
Mn	Manganese	257.61
Mo	Molybdenum	202.03
Na	Sodium	589.59
Ni	Nickel	231.60
P	Phosphorous	214.90
Pb	Lead	220.35
Sb	Antimony	206.83
Se	Selenium	196.02
Si	Silicon	288.20
Sn	Tin	189.90
Sr	Strontium	421.55
Ti	Titanium	337.30
Tl	Thallium	377.57
V	Vanadium	292.40

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Tl	Thallium	377.57
V	Vanadium	292.40
Zn	Zinc	213.85

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 1 50

09/25/96

21:06

ELEM	CONC (ppm)	AVG INTENSITY (COUNTS)	%RSD	#1	INTEGRATIONS #2	#3
Ag	0.000	10.00000	0	10.00000	10.00000	10.00000
Al	0.000	21.66666	16.20	22.00000	18.00000	25.00000
As	0.000	0.33333	173.2	0.00000	0.00000	1.00000
B	0.000	4.00000	0	4.00000	4.00000	4.00000
Ba	0.000	0.00000	0	0.00000	0.00000	0.00000
Be	0.000	2.33333	24.74	3.00000	2.00000	2.00000
Ca	0.000	6.33333	32.86	8.00000	4.00000	7.00000
Cd	0.000	1.00000	100	0.00000	2.00000	1.00000
Co	0.000	-0.66666	624.4	-4.00000	-2.00000	4.00000
Cr	0.000	5.33333	57.28	8.00000	2.00000	6.00000
Cu	0.000	6.00000	0	6.00000	6.00000	6.00000
Fe	0.000	0.33333	173.2	0.00000	1.00000	0.00000
K	0.000	7.33333	31.49	10.00000	6.00000	6.00000
Li	0.000	0.00000	0	0.00000	0.00000	0.00000
Mg	0.000	16.66666	24.97	20.00000	18.00000	12.00000
Mn	0.000	0.00000	0	0.00000	0.00000	0.00000
Mo	0.000	0.66666	173.2	2.00000	0.00000	0.00000
Na	0.000	0.33333	458.2	2.00000	-1.00000	0.00000
Ni	0.000	2.00000	100	4.00000	0.00000	2.00000
Pb	0.000	-0.33333	964.3	-4.00000	1.00000	2.00000
Sb	0.000	-3.00000	33.33	-3.00000	-2.00000	-4.00000
Se	0.000	12.00000	16.66	12.00000	14.00000	10.00000
Si	0.000	24.33333	24.07	22.00000	20.00000	31.00000
Sn	0.000	-1.33333	173.2	0.00000	-4.00000	0.00000
Sr	0.000	-1.33333	86.60	-2.00000	-2.00000	0.00000
Tl	0.000	35.66666	1.618	35.00000	36.00000	36.00000
Tl	0.000	-9.66666	48.88	-6.00000	-8.00000	-15.00000
V	0.000	0.00000	0	0.00000	0.00000	0.00000
Zn	0.000	2.00000	0	2.00000	2.00000	2.00000

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 2 S1 S

09/25/96

21:09

ELEM	CONC (ppm)	AVG INTENSITY (COUNTS)	%RSD	#1	INTEGRATIONS #2	#3
Ba	10.000	8076.66650	0.222	8056.00000	8089.00000	8085.00000
Cd	10.000	6747.00000	0.526	6706.00000	6769.00000	6766.00000
Cr	10.000	11350.33300	0.243	11320.00000	11374.00000	11357.00000
Cu	10.000	15749.33300	0.436	15670.00000	15788.00000	15790.00000
Fe	10.000	6766.33349	0.261	6746.00000	6778.00000	6775.00000
Mn	10.000	4899.66650	0.241	4886.00000	4906.00000	4907.00000
Mo	50.000	38523.66796	0.805	38204.00000	38824.00000	38543.00000
Ni	20.000	11763.33300	0.349	11716.00000	11790.00000	11784.00000
Pb	50.000	13329.66699	0.406	13278.00000	13386.00000	13325.00000
Zn	10.000	5625.66650	0.611	5587.00000	5653.00000	5637.00000

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 3 S2 S

09/25/96

21:13

ELEM	CONC (ppm)	AVG INTENSITY (COUNTS)	%RSD	#1	INTEGRATIONS #2	#3
As	5.000	847.00000	0.312	849.00000	844.00000	848.00000
Be	1.000	824.33331	0.350	826.00000	826.00000	821.00000
Co	2.000	2227.66674	0.475	2226.00000	2239.00000	2218.00000
Li	50.000	19895.33398	0.192	19936.00000	19860.00000	19890.00000
Sb	10.000	6550.00000	0.389	6569.00000	6560.00000	6521.00000
Se	5.000	2687.33325	1.153	2718.00000	2688.00000	2656.00000
Si	5.000	5380.33349	0.362	5394.00000	5358.00000	5389.00000
Sn	10.000	1607.66662	0.414	1606.00000	1615.00000	1602.00000
Sr	1.000	8024.33349	0.144	8032.00000	8030.00000	8011.00000
Ti	5.000	16222.66699	0.181	16235.00000	16244.00000	16189.00000
Tl	10.000	1315.66662	0.494	1322.00000	1309.00000	1316.00000
V	5.000	2236.00000	0.089	2238.00000	2236.00000	2234.00000

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LANCASTER LABORATORIES

Run Name: 96269D3I11

INSTRUMENT ID: 02360

Tube: 4 S3 S

09/25/96

21:16

ELEM	CONC (ppm)	AVG INTENSITY (COUNTS)	%RSD	#1	INTEGRATIONS #2	#3
Ag	1.000	862.66668	0.267	860.00000	864.00000	864.00000
B	2.000	1169.66662	0.177	1168.00000	1169.00000	1172.00000

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 5 S4 S

09/25/96

21:19

ELÉM	CONC (ppm)	AVG INTENSITY (COUNTS)	%RSD	#1	INTEGRATIONS #2	#3
Al	50.000	24033.66601	1.087	24109.00000	24249.00000	23743.00000
Ca	100.000	80841.66406	0.814	80986.00000	81416.00000	80123.00000
K	500.000	14849.00000	1.006	14891.00000	14973.00000	14683.00000
Mg	100.000	80105.66406	1.152	80430.00000	80823.00000	79064.00000
Na	500.000	15925.33300	1.022	15954.00000	16072.00000	15750.00000

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 6

ICV

09/25/96

21:22

ELEM	AVG		%RSD	INTEGRATIONS				#3	REREAD	REDIG
	(ppm)			#1	#2					
Ag	0.54869	0.539		0.54593	0.55182		0.54832			
Al	30.32811	0.544		30.16287	30.32851		30.49295			
As	2.30432	1.234		2.29138	2.28465		2.33694			
B	2.04025	0.635		2.02540	2.04599		2.04936			
Ba	5.69789	0.505		5.66694	5.70284		5.72389			
Be	0.57549	0.438		0.57347	0.57469		0.57832			
Ca	59.79287	0.553		59.41271	59.94956		60.01634			
Cd	5.70785	0.634		5.67625	5.69994		5.74736			
Co	1.11553	1.178		1.10753	1.10835		1.13070			
Cr	5.80217	0.411		5.77661	5.80605		5.82385			
Cu	5.76313	0.429		5.73736	5.76523		5.78678			
Fe	5.81752	0.534		5.78743	5.81555		5.84958			
K	60.64333	0.678		60.19412	60.73319		61.00269			
Li	30.41332	0.384		30.29353	30.41919		30.52725			
Mg	30.32764	0.295		30.23666	30.33049		30.41577			
Mn	5.69268	0.448		5.66747	5.69201		5.71857			
Mo	29.29029	0.353		29.17780	29.31149		29.38158			
Na	62.21787	0.579		61.86244	62.20734		62.58383			
Ni	11.36251	0.538		11.29709	11.37220		11.41824			
Pb	28.82855	0.799		28.56596	28.92224		28.99746			
Sb	5.62888	0.390		5.60428	5.64654		5.63581			
Se	2.30234	0.677		2.30723	2.28487		2.31491			
Si	9.19900	1.453		9.07525	9.18094		9.34082			
Sn	5.67684	0.758		5.65193	5.65204		5.72656			
Sr	1.17207	0.565		1.16517	1.17265		1.17838			
Ti	2.36924	0.470		2.35790	2.36965		2.38016			
Tl	5.74879	0.902		5.70069	5.80382		5.74186			
V	2.37920	0.159		2.37773	2.37635		2.38351			
Zn	5.69941	0.484		5.66831	5.70883		5.72109			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 7 ICB 09/25/96 21:26

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00039	449.4	-0.00116	0.00000	0.00235			
Al	0.11657	8.441	0.10894	0.11310	0.12768			
As	0.00533	127.4	0.00928	-0.00251	0.00922			
B	0.00224	88.32	0.00338	-0.00004	0.00339			
Ba	0.00000	0	0.00000	0.00000	0.00000			
Be	0.00000	14469	-0.00042	-0.00040	0.00081			
Ca	0.18762	1.319	0.19010	0.18762	0.18514			
Cd	-0.00148	0.084	-0.00148	-0.00148	-0.00148			
Co	0.00329	27.19	0.00239	0.00329	0.00418			
Cr	-0.00143	248.9	0.00239	-0.00202	-0.00465			
Cu	0.00719	27.00	0.00761	0.00888	0.00507			
Fe	0.00936	36.48	0.01132	0.00541	0.01133			
K	0.05618	103.8	0.02249	0.02249	0.12356			
Li	0.00000	0	0.00000	0.00000	0.00000			
Mg	0.06187	17.54	0.05688	0.07432	0.05440			
Mn	0.00408	0.015	0.00408	0.00408	0.00408			
Mo	0.01384	10.82	0.01470	0.01211	0.01470			
Na	0.05228	0.019	0.05228	0.05229	0.05227			
Ni	-0.00507	58.02	-0.00337	-0.00337	-0.00847			
Pb	0.00875	85.66	0.00125	0.01626	0.00875			
Sb	0.02394	44.65	0.03512	0.02290	0.01381			
Se	-0.00748	173.0	0.00000	0.00000	-0.02242			
Si	0.01866	7.617	0.01743	0.02022	0.01834			
Sn	0.01665	86.00	0.00840	0.00836	0.03318			
Sr	0.00066	0	0.00066	0.00066	0.00066			
Ti	0.00010	1624.	-0.00113	-0.00051	0.00195			
Tl	0.03788	128.1	0.05793	-0.01749	0.07321			
V	0.00156	165.2	0.00456	0.00006	0.00007			
Zn	0.00178	100.7	0.00179	-0.00002	0.00356			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 8. CRI

09/25/96 21:30

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD REDIG	
			#1	#2	#3		
Ag	0.02035	6.653	0.02114	0.02114	0.01879		
Al	0.01201	26.53	0.01137	0.00919	0.01547		
As	0.01918	17.81	0.02114	0.02117	0.01524		
B	0.00572	34.61	0.00343	0.00686	0.00687		
Ba	0.00000	0	0.00000	0.00000	0.00000		
Be	0.00981	14.35	0.00899	0.01144	0.00901		
Bi	0.00041	341.7	0.00206	-0.00040	-0.00040		
Cd	0.00938	18.23	0.00740	0.01037	0.01037		
Co	0.09930	1.807	0.10109	0.09750	0.09930		
Cr	0.01760	5.787	0.01642	0.01818	0.01818		
Cu	0.05377	1.363	0.05335	0.05335	0.05462		
Fe	-0.00146	57.82	-0.00196	-0.00048	-0.00195		
K	-0.02246	458.1	-0.04491	-0.11229	0.08982		
Li	0.00000	0	0.00000	0.00000	0.00000		
Mg	0.00139	275.1	0.00473	0.00223	-0.00278		
Mn	0.03131	7.523	0.03267	0.03267	0.02859		
Mo	0.00692	0	0.00692	0.00692	0.00692		
Nb	0.03129	115.8	0.05221	-0.01056	0.05222		
Ni	0.07925	4.955	0.08152	0.08152	0.07472		
Pb	0.01901	11.39	0.01778	0.01774	0.02151		
Sb	0.12587	3.182	0.12132	0.12884	0.12745		
Se	-0.00810	127.1	-0.01869	0.00186	-0.00747		
Si	0.01378	0.061	0.01377	0.01379	0.01379		
Sn	-0.00994	348.0	-0.01617	-0.04100	0.02735		
Sr	0.00000	348.0	-0.00020	0.00016	0.00004		
Ti	-0.00132	71.30	-0.00111	-0.00235	-0.00049		
Tl	0.03957	66.38	0.02439	0.02442	0.06991		
V	0.09996	2.580	0.10294	0.09847	0.09847		
Zn	0.03946	0.046	0.03948	0.03944	0.03946		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 9 ICSA

09/25/96

21:34

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00354	32.01	0.00456	0.00373	0.00232		
Al	479.74703	0.343	478.63433	481.64126	478.96551		
As	0.25657	14.94	0.28568	0.27090	0.21314		
B	0.08573	2.592	0.08797	0.08352	0.08570		
Ba	0.00742	0	0.00742	0.00742	0.00742		
Be	-0.00040	0.480	-0.00040	-0.00040	-0.00040		
Ca	468.82516	0.246	467.59960	469.89566	468.98022		
Cd	0.00752	21.83	0.00563	0.00841	0.00853		
Co	0.00031	913.5	-0.00297	0.00151	0.00241		
Cr	0.00391	46.12	0.00327	0.00251	0.00594		
Cu	0.00030	416.0	0.00158	-0.00097	0.00030		
Fe	175.90252	0.239	175.56112	176.37252	175.77394		
K	0.07130	54.58	0.04860	0.04906	0.11625		
Li	0.00167	173.2	0.00502	0.00000	0.00000		
Mg	484.31161	0.250	483.46005	485.70269	483.77212		
Mn	-0.01827	0.089	-0.01826	-0.01829	-0.01826		
Mo	-0.01427	13.88	-0.01644	-0.01384	-0.01254		
Na	0.11523	0.001	0.11523	0.11523	0.11523		
Ni	-0.00853	19.92	-0.00683	-0.01023	-0.00853		
Pb	0.02700	14.82	0.03013	0.02839	0.02249		
Sb	-0.02713	40.90	-0.01999	-0.03991	-0.02148		
Se	0.00881	119.5	0.02049	0.00590	0.00003		
Si	0.17582	0.815	0.17426	0.17613	0.17708		
Sn	0.00035	4051.	-0.00783	-0.00806	0.01696		
Sr	0.01968	0.730	0.01960	0.01985	0.01960		
Ti	-0.01395	14.57	-0.01177	-0.01429	-0.01579		
Tl	0.11851	38.22	0.11847	0.16383	0.07324		
V	0.00195	133.0	-0.00104	0.00345	0.00345		
Zn	0.01569	0.130	0.01569	0.01567	0.01571		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 10 ICSAB

09/25/96 21:38

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD REDIG	
			#1	#2	#3			
Ag	0.18957	0.090	0.18974	0.18940	0.18957			
Al	483.64230	0.317	485.10415	482.03890	483.78381			
As	0.37670	8.002	0.35771	0.36094	0.41146			
B	0.05965	3.032	0.06144	0.05782	0.05969			
Ba	0.47874	0.298	0.48039	0.47791	0.47791			
Be	0.46444	0.303	0.46525	0.46282	0.46526			
Ca	471.63400	0.196	472.44265	470.61920	471.84017			
Cd	0.87676	1.209	0.88852	0.86795	0.87380			
Co	0.43588	1.131	0.44096	0.43559	0.43110			
Cr	0.45558	0.123	0.45623	0.45522	0.45528			
Cu	0.46926	0.280	0.46967	0.46778	0.47032			
Fe	177.40960	0.229	177.81950	177.00512	177.40419			
K	0.10518	18.45	0.11657	0.11621	0.08276			
Li	0.00167	229.1	0.00502	0.00251	-0.00251			
Mg	488.21575	0.316	489.78460	486.69778	488.16491			
Mn	0.42473	0.007	0.42470	0.42476	0.42473			
Mo	-0.01730	17.32	-0.01903	-0.01384	-0.01903			
Na	0.03110	58.22	0.02064	0.05201	0.02065			
Ni	0.85877	0.823	0.86669	0.85651	0.85310			
Pb	0.08127	4.550	0.08549	0.07968	0.07862			
Sb	0.58169	2.074	0.58619	0.56802	0.59086			
Se	0.07654	62.50	0.07987	0.02712	0.12263			
Si	0.09968	1.846	0.09785	0.09964	0.10153			
Sn	0.00199	722.7	-0.00636	-0.00626	0.01860			
Sr	0.02001	1.437	0.02035	0.01985	0.01985			
Ti	-0.01417	8.836	-0.01420	-0.01290	-0.01540			
Tl	0.16517	32.25	0.22275	0.15517	0.11759			
V	0.46366	0.558	0.46515	0.46516	0.46066			
Zn	0.88647	0.109	0.88760	0.88595	0.88587			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 11 CCV

09/25/96 21:42

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD REDIG	
			#1	#2	#3			
Ag	0.45806	0.144	0.45844	0.45845	0.45730			
Al	24.43118	0.596	24.33214	24.36285	24.59853			
As	1.95987	2.469	1.92103	1.94448	2.01410			
B	1.24992	0.842	1.24071	1.24766	1.26140			
Ba	4.77424	0.657	4.76062	4.75196	4.81015			
Be	0.47505	0.507	0.47263	0.47507	0.47746			
Ca	49.07069	0.449	48.83940	49.09420	49.27847			
Cd	4.70571	0.745	4.68399	4.68694	4.74619			
Co	0.95308	1.040	0.94237	0.95492	0.96195			
Cr	4.85351	0.619	4.82253	4.85542	4.88258			
Cu	4.85591	0.654	4.83694	4.83815	4.89262			
Fe	4.84917	0.397	4.83731	4.83881	4.87140			
K	49.50284	0.342	49.68250	49.34564	49.48039			
Li	25.09214	0.795	24.97821	24.97570	25.32252			
Mg	24.97815	0.520	24.91421	24.89254	25.12770			
Mn	4.72160	0.350	4.70658	4.71886	4.73936			
Mo	24.44037	0.801	24.27943	24.38326	24.65842			
Na	50.45095	0.648	50.23174	50.29417	50.82694			
Ni	9.34645	0.528	9.30190	9.33782	9.39964			
Pb	23.75544	0.566	23.61156	23.77674	23.87802			
Sb	4.70789	0.606	4.69818	4.68546	4.74004			
Se	1.92383	0.476	1.91941	1.93437	1.91771			
Si	5.00574	2.056	4.91189	4.98950	5.11583			
Sn	4.66581	0.868	4.66788	4.62432	4.70524			
Sr	0.96345	0.627	0.96008	0.95983	0.97042			
Ti	1.97821	0.816	1.96502	1.97337	1.99624			
Tl	4.76758	0.629	4.75905	4.74276	4.80094			
V	1.95917	0.424	1.95516	1.95361	1.96872			
Zn	4.72007	0.612	4.68825	4.72724	4.74472			

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 12 CCB

09/25/96

21:46

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD REDIG	
			#1	#2	#3		
Ag	0.00039	450.7	0.00000	0.00235	-0.00116		
Al	0.01867	25.71	0.02143	0.02147	0.01313		
As	0.00383	266.6	-0.00210	0.01564	-0.00203		
B	0.00226	87.59	0.00340	0.00340	-0.00002		
Ba	0.00000	0	0.00000	0.00000	0.00000		
Be	-0.00041	3.061	-0.00042	-0.00040	-0.00040		
Ca	0.02433	17.60	0.02928	0.02186	0.02186		
Cd	-0.00148	0.066	-0.00148	-0.00148	-0.00148		
Co	0.00120	86.17	0.00060	0.00239	0.00060		
Cr	-0.00172	117.5	-0.00288	-0.00290	0.00061		
Cu	0.00698	24.03	0.00888	0.00634	0.00571		
Fe	0.01575	9.395	0.01723	0.01575	0.01427		
K	-0.04490	0.006	-0.04490	-0.04490	-0.04491		
Li	0.00167	173.2	0.00502	0.00000	0.00000		
Mg	0.01606	40.42	0.02325	0.01062	0.01431		
Mn	0.00000	30.14	0.00000	0.00000	0.00000		
Mo	0.01384	39.03	0.01990	0.01211	0.00951		
Na	0.02089	260.1	0.05226	0.05229	-0.04187		
Ni	0.00002	11479	-0.00335	0.00002	0.00342		
Pb	0.00877	308.2	-0.02123	0.03130	0.01626		
Sb	0.02089	44.57	0.02296	0.02899	0.01071		
Se	-0.00249	769.3	-0.01869	0.01868	-0.00747		
Si	0.01274	31.93	0.01554	0.00807	0.01462		
Sn	0.01042	149.7	0.00836	-0.00404	0.02696		
Sr	0.00024	57.73	0.00016	0.00016	0.00041		
Ti	-0.00216	32.95	-0.00175	-0.00175	-0.00298		
Tl	0.03771	180.6	0.10319	0.04275	-0.03280		
V	0.00231	168.5	0.00682	0.00006	0.00005		
Zn	0.00117	177.7	0.00358	-0.00002	-0.00003		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 13 FBW PBW
 ****, 100-100, DF1, 962695720001, 8.,

09/25/96 21:50

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
✓As	0.00078	172.5	0.00000	0.00000	0.00234		
✓Al	0.00901	46.73	0.00906	0.01319	0.00477		
As	0.00586	116.2	-0.00201	0.00979	0.00982		
B	0.00683	0.038	0.00683	0.00684	0.00683		
✓Ba	0.00000	0	0.00000	0.00000	0.00000		
✓Be	-0.00040	2.056	-0.00040	-0.00039	-0.00040		
✓Ca	0.01691	29.25	0.01196	0.01690	0.02186		
✓Cd	-0.00247	69.19	-0.00148	-0.00148	-0.00444		
✓Co	0.00269	134.3	0.00599	0.00329	-0.00118		
✓Cr	-0.00232	190.1	-0.00291	0.00236	-0.00643		
✓Cu	0.00380	33.39	0.00380	0.00508	0.00253		
✓Fe	0.01033	16.50	0.01131	0.01132	0.00836		
✓K	0.00000	55363	0.02246	0.02245	-0.04490		
Li	0.00167	173.2	0.00000	0.00502	0.00000		
✓Mg	0.01926	59.68	0.02178	0.00671	0.02929		
✓Mn	0.00000	10.21	0.00000	0.00000	0.00000		
Mo	0.00692	49.60	0.00822	0.00302	0.00951		
✓Na	0.05231	0.018	0.05232	0.05232	0.05230		
✓Ni	-0.00338	0.317	-0.00339	-0.00339	-0.00337		
Pb	0.00504	197.0	0.00134	0.01629	-0.00251		
✓Sb	0.00767	105.3	0.01686	0.00453	0.00163		
Se	-0.00623	295.7	-0.01495	0.01494	-0.01870		
Si	0.01149	32.95	0.01367	0.01369	0.00712		
Sn	0.02695	61.01	0.03320	0.00830	0.03936		
✓Sr	0.00024	57.73	0.00016	0.00041	0.00016		
✓Ti	-0.00226	55.08	-0.00360	-0.00113	-0.00206		
✓Tl	0.02779	162.9	0.02778	0.07307	-0.01748		
✓V	-0.00145	178.2	0.00004	-0.00444	0.00004		
✓Zn	0.00650	15.56	0.00710	0.00706	0.00533		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

TIME: 14 LCSW LCSW
 DATE: 1-1, DF1, 962695720001, 8,,

09/25/96 21:54

ELEM	AVG		INTEGRATIONS				REREAD REDIG	
	(ppm)	%RSD	#1	#2	#3			
✓ Au	0.04960	1.371	0.04881	0.05000	0.04999			
✓ Ag	2.00002	0.522	1.98895	2.00973	2.00138			
✓ As	2.03108	0.603	2.01737	2.03493	2.04094			
✓ B	2.02600	0.635	2.01285	2.03858	2.02656			
✓ Ba	1.98844	0.542	1.98101	2.00082	1.98349			
✓ Be	0.04948	1.437	0.05030	0.04905	0.04910			
✓ Ca	4.05694	0.276	4.04868	4.06971	4.05242			
✓ Cd	0.04711	3.626	0.04810	0.04809	0.04514			
✓ Co	0.49529	1.184	0.49439	0.50155	0.48992			
✓ Cr	0.20020	0.535	0.19959	0.20144	0.19958			
✓ Cu	0.25271	0.520	0.25124	0.25376	0.25315			
✓ Fe	1.02457	0.726	1.01669	1.03148	1.02553			
✓ K	3.97535	0.978	3.99781	3.99781	3.93044			
✓ Li	2.02560	0.656	2.02057	2.04067	2.01554			
✓ Mg	2.03518	0.410	2.03831	2.04152	2.02570			
✓ Mn	0.48777	0.484	0.48641	0.49050	0.48641			
✓ Mo	2.01870	1.062	2.00832	2.04336	2.00443			
✓ Na	4.10131	0.882	4.12226	4.12213	4.05953			
✓ Ni	0.49590	0.531	0.49531	0.49878	0.49361			
✓ Pb	0.49509	1.531	0.49509	0.50268	0.48751			
✓ Sb	0.54227	0.160	0.54328	0.54179	0.54176			
✓ Se	1.96343	1.052	1.94412	1.96095	1.98523			
✓ Si	3.81718	0.859	3.77984	3.83026	3.84145			
✓ Sn	3.82597	0.094	3.82390	3.82388	3.83012			
✓ Sr	1.01179	0.442	1.00855	1.01690	1.00992			
✓ Ti	0.99128	0.683	0.99354	0.99663	0.98366			
✓ Tl	1.98284	2.637	2.04324	1.95251	1.95279			
✓ V	0.50051	1.461	0.49746	0.50886	0.49521			
✓ Zn	0.49804	0.415	0.49565	0.49928	0.49919			

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 15 2585279 MRA25. 09/25/96 21:58
 U***, 100-100, DF1, 962695720001, 8.,

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
XAg	0.00110	1.776	0.00108	0.00111	0.00111		
XAl	0.54204	0.763	0.54617	0.54206	0.53789		
As	0.01493	45.43	0.01885	0.01885	0.00710		
B	0.05399	3.798	0.05526	0.05162	0.05508		
XBa	0.06685	0	0.06685	0.06685	0.06685		
XBe	-0.00041	3.435	-0.00042	-0.00043	-0.00040		
XCa	143.91764	0.601	142.94323	144.20877	144.60092		
XCd	-0.00365	46.89	-0.00167	-0.00464	-0.00464		
XCo	-0.00067	405.1	-0.00307	-0.00127	0.00231		
XCr	-0.00158	140.4	-0.00364	-0.00187	0.00077		
XCu	0.00103	93.85	0.00124	-0.00002	0.00187		
XFe	0.64987	0.909	0.64396	0.65578	0.64987		
XK	1.62332	2.399	1.60067	1.66830	1.60100		
Li	0.03602	4.028	0.03769	0.03518	0.03518		
XMg	49.24135	0.354	49.04048	49.35492	49.32866		
XMn	0.03734	6.341	0.04008	0.03598	0.03598		
Mo	0.00735	10.18	0.00692	0.00692	0.00822		
XNa	52.44362	0.241	52.32849	52.57968	52.42269		
XNi	-0.00111	175.8	-0.00338	0.00001	0.00001		
Pb	0.00780	110.5	0.01776	0.00278	0.00285		
XSb	0.00856	73.23	0.01062	0.00152	0.01355		
Se	0.08499	16.50	0.07690	0.10119	0.07689		
Si	11.99623	0.494	11.93026	12.01334	12.04509		
Sn	0.00394	480.6	0.00809	0.02049	-0.01675		
Sr	0.45603	0.445	0.45371	0.45695	0.45744		
Ti	0.01837	7.012	0.01941	0.01693	0.01878		
Tl	0.04272	70.79	0.07297	0.01248	0.04270		
XV	0.00452	98.75	0.00451	0.00899	0.00006		
XZn	0.01018	0.400	0.01019	0.01021	0.01013		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 16 2585279 MRA2S A 09/25/96 22:02
 UP**, 100-100, DF1, 962695720001, 8.,

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
Ag	0.01913	7.018	0.01758	0.01990	0.01990		
Al	0.92340	1.877	0.91784	0.90952	0.94284		
As	0.02837	0.285	0.02838	0.02844	0.02828		
B	0.24728	1.361	0.25060	0.24387	0.24736		
Ba	0.44944	0	0.44944	0.44944	0.44944		
Be	0.00981	14.22	0.01142	0.00900	0.00900		
Ca	140.75131	0.267	141.17272	140.63214	140.44905		
Cd	0.00909	18.81	0.01008	0.00711	0.01008		
Co	0.09427	0.960	0.09337	0.09518	0.09427		
Cr	0.02059	18.67	0.02500	0.01795	0.01882		
Cu	0.05043	0.724	0.05064	0.05000	0.05064		
Fe	0.82461	0.717	0.83053	0.82459	0.81869		
K	3.62143	0.001	3.62151	3.62141	3.62137		
Li	0.14157	2.711	0.14576	0.14073	0.13822		
Mg	49.00344	0.302	49.16742	48.96391	48.87900		
Mn	0.06603	1.781	0.06670	0.06467	0.06672		
Mo	0.18776	0.798	0.18863	0.18863	0.18603		
Na	53.25880	0.180	53.36344	53.23789	53.17509		
Ni	0.07626	5.145	0.07173	0.07853	0.07852		
Pb	0.02397	18.11	0.01896	0.02650	0.02647		
Sb	0.10802	8.654	0.09727	0.11259	0.11421		
Se	0.08072	10.09	0.08633	0.07137	0.08445		
Si	12.01844	0.280	12.02095	12.05079	11.98359		
Sn	0.51367	7.398	0.48047	0.50540	0.55512		
Sr	0.46405	0.316	0.46567	0.46367	0.46280		
Ti	0.11652	3.182	0.12012	0.11271	0.11673		
Tl	0.08716	17.89	0.06968	0.09213	0.09967		
V	0.10103	2.568	0.10403	0.09954	0.09953		
Zn	0.05555	3.724	0.05677	0.05316	0.05672		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 17 2585279 MRA25 D 09/25/96 22:06
 D***, 100-100, DF1, 962695720001.8, .

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
✓Ag	-0.00167	41.08	-0.00246	-0.00128	-0.00126		
✓Al	0.51567	0.933	0.51289	0.51290	0.52123		
As	0.01114	61.22	0.01901	0.00721	0.00719		
B	0.05424	3.383	0.05544	0.05213	0.05516		
✓Ba	0.06685	0	0.06685	0.06685	0.06685		
✓Be	-0.00041	2.009	-0.00041	-0.00041	-0.00040		
✓Ca	142.81704	0.537	142.27891	142.47685	143.69538		
✓Cd	-0.00265	64.52	-0.00462	-0.00166	-0.00166		
✓Co	-0.00127	141.0	-0.00306	-0.00127	0.00052		
✓Cr	-0.00013	2610.	0.00338	-0.00013	-0.00364		
✓Cu	0.00167	87.72	0.00251	0.00251	-0.00002		
✓Fe	0.61045	0.280	0.61144	0.61144	0.60848		
✓K	1.57819	6.168	1.46578	1.63426	1.63451		
Li	0.03853	3.765	0.03769	0.04021	0.03769		
✓Mg	48.93217	0.710	48.84067	48.63960	49.31626		
✓Mn	0.03736	3.120	0.03805	0.03601	0.03802		
Mo	0.00346	43.30	0.00173	0.00432	0.00432		
✓Na	52.25526	1.049	52.10874	51.79476	52.86228		
✓Ni	-0.00112	174.8	-0.00339	0.00001	0.00000		
Pb	0.01154	67.34	0.01401	0.01779	0.00283		
✓Sb	0.00451	67.85	0.00145	0.00758	0.00449		
✓Se	0.08373	24.59	0.06379	0.08249	0.10492		
Si	11.88577	0.647	11.87239	11.81638	11.96854		
Sn	0.01637	43.79	0.02051	0.02053	0.00809		
✓Sr	0.45516	0.870	0.45346	0.45234	0.45969		
✓Ti	0.01632	7.614	0.01632	0.01756	0.01508		
✓Tl	0.01507	325.6	0.01262	0.06532	-0.03273		
✓V	0.00301	85.83	0.00449	0.00450	0.00002		
✓Zn	0.01017	0.217	0.01019	0.01018	0.01015		

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LANCASTER LABORATORIES

INSTRUMENT ID: 02360

Run Name: 9626903I11

Tube: 18 2585279 m2A2S S 09/25/96 22:10
 RAA, 100-100, DF1, 962695720001.8,.

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIS	
			#1	#2			
✓ Ag	0.04632	0.009	0.04631	0.04632	0.04632		
✓ Al	2.58738	0.309	2.59298	2.59093	2.57822		
As	0.04194	28.06	0.04191	0.05374	0.03019		
B	2.03081	0.000	2.03081	2.03080	2.03083		
✓ Ba	2.01320	0.184	2.01692	2.01320	2.00949		
✓ Be	0.04993	1.390	0.05033	0.05033	0.04913		
Ca	145.35977	0.136	145.13545	145.51524	145.42863		
✓ Cd	0.04596	3.722	0.04497	0.04794	0.04497		
✓ Co	0.47698	0.947	0.47637	0.48177	0.47279		
✓ Cr	0.19925	1.843	0.20041	0.19514	0.20221		
✓ Cu	0.24659	0.298	0.24744	0.24617	0.24616		
✓ Fe	1.60205	0.243	1.60057	1.60647	1.59909		
K	5.62060	1.248	5.54195	5.64310	5.67676		
Li	2.09178	0.541	2.10350	2.09094	2.08088		
✓ Mg	50.40988	0.022	50.41520	50.41780	50.39664		
✓ Mn	0.51357	0.458	0.51221	0.51629	0.51221		
Mo	1.93996	0.336	1.93304	1.94083	1.94602		
Na	55.93817	0.212	55.99051	56.02190	55.80210		
✓ Ni	0.47875	0.412	0.47646	0.47987	0.47990		
Pb	0.03621	11.97	0.03120	0.03876	0.03866		
✓ Sb	0.52864	2.856	0.53578	0.51129	0.53886		
Se	0.09912	9.496	0.09787	0.10909	0.09039		
Si	15.58812	0.143	15.57038	15.61332	15.58065		
Sn	3.93550	1.264	3.93553	3.88573	3.98526		
Sr	1.45807	0.116	1.45985	1.45786	1.45649		
Ti	1.01780	0.184	1.01904	1.01564	1.01873		
Tl	0.11218	35.57	0.09716	0.08196	0.15743		
✓ V	0.48886	0.520	0.49032	0.49035	0.48593		
✓ Zn	0.48567	0.757	0.48272	0.48449	0.48979		

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 19 2585279 M2AAS L 09/25/96 22:14
UL**,100-100,DF5,962695720001,8.,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
Ag	0.00110	61.32	0.00070	0.00188	0.00071	_____	_____
Al	0.11872	5.396	0.12573	0.11726	0.11317	_____	_____
As	0.00135	504.4	-0.00262	-0.00256	0.00926	_____	_____
B	0.01772	0.148	0.01774	0.01773	0.01769	_____	_____
Ba	0.01403	10.18	0.01238	0.01485	0.01485	_____	_____
Be	0.00040	351.6	-0.00041	0.00202	-0.00040	_____	_____
Ca	29.53452	0.371	29.46689	29.47555	29.66111	_____	_____
Cd	-0.00152	0.070	-0.00152	-0.00152	-0.00152	_____	_____
Co	0.00297	125.4	0.00597	-0.00120	0.00417	_____	_____
Cr	0.00022	1212.	0.00257	0.00080	-0.00271	_____	_____
Cu	0.00126	0.072	0.00126	0.00126	0.00126	_____	_____
Fe	0.13893	1.625	0.13844	0.13696	0.14140	_____	_____
K	0.36524	18.44	0.43260	0.36522	0.29789	_____	_____
Li	0.00837	34.64	0.01005	0.00502	0.01005	_____	_____
Mg	10.09996	0.390	10.06960	10.08577	10.14451	_____	_____
Mn	0.01099	10.71	0.01167	0.00963	0.01167	_____	_____
Mo	0.00302	42.85	0.00302	0.00173	0.00432	_____	_____
Na	10.60175	0.592	10.60174	10.53896	10.66454	_____	_____
Ni	-0.00339	100.1	-0.00680	-0.00339	0.00000	_____	_____
Pb	-0.00338	338.8	-0.01334	-0.00593	0.00914	_____	_____
Sb	0.01270	27.51	0.01069	0.01674	0.01068	_____	_____
Se	0.00566	206.1	-0.00742	0.00939	0.01500	_____	_____
Si	2.45177	0.506	2.44555	2.44368	2.46608	_____	_____
Sn	0.00413	173.0	0.00827	-0.00413	0.00827	_____	_____
Sr	0.09378	0.668	0.09386	0.09311	0.09436	_____	_____
Ti	0.00296	20.80	0.00358	0.00235	0.00296	_____	_____
Tl	-0.02776	143.9	0.01276	0.07304	-0.00252	_____	_____
V	0.00151	171.1	0.00449	0.00001	0.00002	_____	_____
Zn	0.01058	0.305	0.01061	0.01056	0.01055	_____	_____

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 20 2585276 M2A1 S 09/25/96 22:18
 ****, 100-100, DF1, 962695720001, 8.,

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
XAg	-0.00086	133.9	0.00029	-0.00086	-0.00201		
XAl	0.62747	2.718	0.63168	0.60870	0.64203		
XAs	-0.00520	1.590	-0.00522	-0.00511	-0.00527		
Br	0.05204	3.570	0.05102	0.05091	0.05418		
XBa	0.09368	0.763	0.09286	0.09409	0.09409		
XBe	0.00039	359.2	-0.00042	0.00201	-0.00041		
XCa	103.98912	0.845	103.22914	103.78584	104.95240		
XCd	-0.00174	0.095	-0.00174	-0.00174	-0.00174		
XCo	0.00108	251.6	0.00407	-0.00130	0.00049		
XCr	0.00173	105.2	0.00320	0.00231	-0.00031		
XCu	0.00822	7.736	0.00759	0.00886	0.00822		
XFe	0.86075	0.792	0.85681	0.85680	0.86863		
XK	0.97527	5.285	0.98634	0.91908	1.02038		
Li	0.01005	24.99	0.01256	0.01005	0.00753		
XMg	38.54438	0.533	38.35139	38.52109	38.76067		
XMn	0.03190	7.390	0.03055	0.03462	0.03053		
Mo	0.00346	43.30	0.00432	0.00173	0.00432		
XNa	30.05742	0.629	29.87949	30.03650	30.25627		
XNi	-0.00282	34.81	-0.00339	-0.00339	-0.00169		
Pb	0.01856	42.06	0.02109	0.02478	0.00980		
XSb	-0.00165	186.4	-0.00472	-0.00165	0.00143		
Se	-0.02953	88.58	-0.01832	-0.05944	-0.01084		
Si	7.87407	0.999	7.80966	7.85074	7.96181		
Sn	0.01212	59.25	0.00797	0.00798	0.02042		
Sr	0.29106	0.620	0.28923	0.29110	0.29285		
Tl	0.02334	7.017	0.02520	0.02273	0.02210		
Ti	0.03270	70.39	0.01260	0.02769	0.05782		
XV	0.00450	0.189	0.00451	0.00450	0.00451		
XZn	0.03631	5.654	0.03513	0.03868	0.03511		

LANCASTER LABORATORIES

INSTRUMENT ID: 02360

Run Name: 9626903I11

Tube: 21 2585277 MRA 10
***, 100-100, CF1, 962695720001.8.,

09/25/96

22:22

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD REDIG	
			#1	#2	#3			
X Ag	-0.00073	183.9	-0.00152	-0.00152	0.00083			
X Al	0.06897	5.230	0.07105	0.06480	0.07104			
As	0.00551	326.8	0.02125	0.00947	-0.01417			
B	0.56479	0.921	0.56027	0.56361	0.57048			
X Ba	0.06190	0	0.06190	0.06190	0.06190			
X Be	0.00121	115.4	-0.00040	0.00202	0.00202			
X Ca	150.69319	0.176	150.50309	150.57978	150.99668			
X Cd	-0.00254	67.35	-0.00155	-0.00451	-0.00155			
X Co	0.00684	13.13	0.00773	0.00594	0.00684			
X Cr	0.00360	74.72	0.00654	0.00301	0.00125			
X Cu	0.00168	43.53	0.00126	0.00126	0.00253			
X Fe	0.23482	1.921	0.22989	0.23581	0.23875			
X K	4.58952	2.243	4.56702	4.49967	4.70188			
Li	0.03518	0	0.03518	0.03518	0.03518			
X Mg	37.90802	0.197	37.82229	37.95964	37.94212			
X Mn	1.69294	0.278	1.68751	1.69566	1.69566			
Mo	0.00778	25.45	0.00951	0.00562	0.00822			
X Na	79.06852	0.300	78.79640	79.23598	79.17319			
X Ni	0.00567	69.13	0.00341	0.01020	0.00340			
Pb	0.00654	249.6	-0.01219	0.01778	0.01404			
X Sb	0.00757	39.36	0.01055	0.00759	0.00458			
Se	-0.00862	274.3	-0.02980	-0.01299	0.01691			
Si	5.60896	0.250	5.59558	5.62358	5.60771			
Sn	0.01238	208.8	-0.01660	0.02066	0.03309			
Sr	0.83066	0.131	0.82975	0.83037	0.83187			
Ti	-0.00155	100.1	-0.00134	-0.00011	-0.00320			
Tl	0.04760	73.35	0.02755	0.02732	0.08792			
X V	0.00005	26.63	0.00007	0.00004	0.00005			
X Zn	0.00552	18.73	0.00672	0.00492	0.00494			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 22 2585278 *meaad* 09/25/96 22:26
 ****,100-100,DF1,962695720001,8.,

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
XAg	-0.00060	1.876	-0.00061	-0.00060	-0.00059		
XAl	0.12979	5.534	0.12569	0.12560	0.13809		
XAs	0.00129	1051.	0.00917	-0.01442	0.00912		
XBa	0.53193	0.649	0.53092	0.52911	0.53578		
XBe	0.10482	1.363	0.10400	0.10400	0.10647		
XBi	0.00040	350.1	-0.00041	-0.00039	0.00202		
XCa	74.63196	0.560	74.24187	74.58083	75.07318		
XCd	-0.00154	0.065	-0.00154	-0.00154	-0.00154		
XCo	0.00530	39.02	0.00769	0.00411	0.00411		
XCr	-0.00296	90.94	-0.00590	-0.00061	-0.00236		
XCu	0.00126	0.114	0.00126	0.00126	0.00126		
XFe	0.20543	2.195	0.20051	0.20641	0.20937		
XK	3.78797	1.028	3.74298	3.81041	3.81052		
Li	0.02345	12.37	0.02513	0.02010	0.02513		
XMg	26.97459	0.854	26.77736	26.91836	27.22807		
XMn	0.17809	0.006	0.17810	0.17809	0.17808		
XMo	0.00692	37.49	0.00692	0.00432	0.00951		
XNa	64.81419	0.937	64.44788	64.47930	65.51539		
XNi	0.00000	78.78	0.00000	0.00000	0.00001		
XPb	0.01230	70.45	0.01733	0.00229	0.01729		
Xsb	0.00866	53.23	0.00462	0.01369	0.00766		
XSe	0.00008	39401	-0.01113	0.03746	-0.02607		
XSi	5.22799	0.299	5.20993	5.23796	5.23608		
XSn	0.01446	74.41	0.00823	0.00826	0.02689		
Xsr	0.56065	0.776	0.55737	0.55899	0.56560		
XTi	0.00290	46.45	0.00445	0.00229	0.00197		
XV	0.04274	105.9	0.04272	0.08803	-0.00253		
XV	0.00152	223.7	0.00450	-0.00220	0.00229		
XZn	0.00685	0.420	0.00687	0.00682	0.00685		

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 23 CCV

09/25/96

22:30

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD	REDIG
			#1	#2			
Ag	0.45688	0.296	0.45609	0.45844	0.45610		
Al	25.14002	0.259	25.06802	25.15699	25.19505		
As	1.94861	0.907	1.92931	1.95245	1.96406		
B	1.90303	1.084	1.88240	1.90303	1.92367		
Ba	4.77177	0.144	4.76434	4.77300	4.77796		
Be	0.47426	0.292	0.47266	0.47506	0.47506		
Ca	49.00558	0.228	48.89014	49.11403	49.01256		
Cd	4.70477	0.108	4.69886	4.70774	4.70771		
Co	0.93696	1.064	0.92802	0.94772	0.93513		
Cr	4.83161	0.231	4.81945	4.83392	4.84147		
Cu	4.85579	0.213	4.84402	4.85982	4.86353		
Fe	4.81563	0.200	4.80624	4.81514	4.82552		
K	49.95203	3e-05	49.95202	49.95204	49.95201		
Li	24.94135	0.315	24.87517	24.92041	25.02848		
Mg	24.89822	0.381	24.81114	24.88387	24.99964		
Mn	4.70387	0.218	4.69430	4.71475	4.70256		
Mo	24.27294	0.670	24.11849	24.25736	24.44297		
Na	51.27833	0.126	51.20561	51.29931	51.33008		
Ni	9.32910	0.366	9.29135	9.35796	9.33798		
Pb	23.37973	0.241	23.31463	23.41611	23.40846		
Sb	4.73077	0.488	4.72590	4.71048	4.75595		
Se	1.88706	1.016	1.88206	1.90825	1.87087		
Si	9.51524	1.604	9.36207	9.51620	9.66744		
Sn	4.72602	0.607	4.69288	4.74253	4.74266		
Sr	0.96133	0.214	0.95896	0.96232	0.96270		
Ti	1.96596	0.479	1.95668	1.96565	1.97553		
Tl	4.76319	0.672	4.77456	4.72700	4.78800		
V	1.95440	0.307	1.94749	1.95729	1.95841		
Zn	4.69166	0.328	4.67399	4.70224	4.69874		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 24 CCB

09/25/96 22:34

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD	REDIG
			#1	#2			
Ag	-0.00117	100.2	-0.00234	0.00000	-0.00117		
Al	0.00619	38.53	0.00894	0.00482	0.00479		
As	-0.00594	114.7	-0.01381	-0.00201	-0.00199		
B	0.00687	0.090	0.00687	0.00687	0.00686		
Ba	0.00000	0	0.00000	0.00000	0.00000		
Be	0.00000	9576.	-0.00040	-0.00042	0.00080		
Ca	0.01526	9.336	0.01444	0.01690	0.01444		
Cd	-0.00148	0.039	-0.00148	-0.00148	-0.00148		
Co	0.00180	57.45	0.00239	0.00239	0.00060		
Cr	-0.00436	90.89	-0.00818	-0.00025	-0.00466		
Cu	0.00465	15.73	0.00507	0.00507	0.00380		
Fe	0.00196	43.45	0.00097	0.00246	0.00245		
K	0.01123	865.2	-0.04490	0.12352	-0.04490		
Li	0.00000	0	0.00000	0.00000	0.00000		
Mg	-0.00306	161.2	-0.00801	-0.00305	0.00187		
Mn	0.00000	18.93	0.00000	0.00000	0.00000		
Mo	0.01470	17.64	0.01730	0.01470	0.01211		
Na	0.05228	0.020	0.05228	0.05228	0.05230		
Ni	-0.00337	100.9	-0.00336	0.00003	-0.00677		
Pb	0.00629	68.68	0.00130	0.00879	0.00879		
Sb	0.02395	44.57	0.02294	0.01382	0.03510		
Se	-0.00436	449.5	-0.02430	-0.00374	0.01494		
Si	0.01460	6.431	0.01459	0.01555	0.01367		
Sn	0.00836	296.6	0.00836	0.03319	-0.01645		
Sr	0.00012	208.1	0.00041	-0.00008	0.00004		
Ti	-0.00154	61.12	-0.00175	-0.00051	-0.00236		
Tl	0.00261	883.3	-0.01749	-0.00254	0.02788		
V	0.00231	96.71	0.00008	0.00455	0.00229		
Zn	0.00001	29090	-0.00356	0.00357	0.00002		

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 25 2585281 MRAVS
****, 100-100, DF1, 962695720001, 8.,

09/25/96 22:38

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
X As	-0.00264	105.2	0.00056	-0.00420	-0.00429			
X Al	0.23386	1.817	0.23392	0.23808	0.22958			
As	-0.01110	61.35	-0.01505	-0.00323	-0.01500			
B	0.10970	2.440	0.11006	0.11218	0.10686			
X Ba	0.04457	0	0.04457	0.04457	0.04457			
X Be	0.00040	462.2	0.00201	-0.00162	0.00081			
X Ca	330.34439	1.334	334.51419	330.78808	325.73092			
X Cd	-0.00462	64.12	-0.00462	-0.00165	-0.00758			
X Co	0.00295	175.3	0.00594	0.00594	-0.00302			
X Cr	0.00041	881.4	0.00454	-0.00253	-0.00075			
X Cu	0.00379	57.96	0.00633	0.00252	0.00252			
X Fe	0.57986	1.177	0.58775	0.57592	0.57591			
X K	4.36689	1.354	4.40140	4.40066	4.29859			
Li	0.08544	0	0.08544	0.08544	0.08544			
X Mg	106.24562	0.304	106.57959	105.93453	106.22274			
X Mn	0.21354	0.548	0.21419	0.21219	0.21425			
Mo	0.00648	30.55	0.00822	0.00432	0.00692			
X Na	97.99052	0.705	97.94864	97.32071	98.70220			
X Ni	0.00341	99.82	0.00681	0.00000	0.00342			
Pb	-0.00218	910.0	0.02037	-0.00966	-0.01727			
X Sb	0.00046	997.8	0.00147	-0.00460	0.00452			
Se	0.02764	54.64	0.04509	0.01893	0.01891			
Si	8.83552	0.821	8.90492	8.84143	8.76020			
Sn	0.03088	11.56	0.03295	0.03294	0.02676			
Sr	1.16235	0.503	1.16829	1.15658	1.16218			
Ti	0.00579	28.16	0.00702	0.00642	0.00394			
Tl	0.07783	73.36	0.11794	0.10310	0.01245			
X V	0.00154	168.6	0.00454	0.00003	0.00005			
X Zn	0.01673	0.042	0.01673	0.01674	0.01672			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 26 2585282 m2A35
KAAA, 100-100, DF1, 962695720001, 8,

09/25/96 22:42

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
X Au	-0.00132	224.0	-0.00174	-0.00405	0.00182		
X Al	0.02982	14.08	0.02986	0.02559	0.03399		
X Ar	0.00181	378.0	-0.00212	0.00972	-0.00216		
X B	0.06602	2.691	0.06397	0.06703	0.06706		
X Ba	0.24391	1.343	0.24019	0.24638	0.24515		
X Be	-0.00041	1.759	-0.00041	-0.00040	-0.00042		
X Br	134.14474	0.857	132.88085	134.42472	136.12863		
X Cd	-0.00247	69.18	-0.00148	-0.00445	-0.00148		
X Co	-0.00016	1669.	0.00223	-0.00315	0.00043		
X Cr	-0.00089	599.4	-0.00208	-0.00559	0.00498		
X Cu	0.00148	65.47	0.00063	0.00126	0.00253		
X Fe	0.01624	10.49	0.01723	0.01723	0.01427		
X K	1.58769	6.111	1.69973	1.53160	1.53173		
X Li	0.03350	8.660	0.03015	0.03518	0.03518		
X Mg	42.42814	0.812	42.03081	42.64745	42.60617		
X Mn	0.00158	1.256	0.00160	0.00157	0.00157		
X Mo	0.00519	28.86	0.00432	0.00432	0.00692		
X Na	27.03296	1.163	26.67713	27.27367	27.14807		
X Ni	0.00001	37.60	0.00000	0.00001	0.00001		
X Pb	0.00917	131.7	0.01795	-0.00461	0.01418		
X Sb	0.00257	275.3	0.01075	-0.00147	-0.00156		
X Se	0.09219	12.38	0.08223	0.10465	0.08970		
X Si	10.68893	0.839	10.58967	10.71287	10.76426		
X Sn	0.00415	457.5	0.02075	0.00828	-0.01657		
X Sr	0.41421	0.966	0.40960	0.41682	0.41620		
X Ti	-0.00299	17.62	-0.00360	-0.00268	-0.00268		
X Tl	0.02766	54.58	0.04275	0.02767	0.01255		
X V	0.00226	99.57	0.00225	0.00001	0.00452		
X Zn	0.01029	0.170	0.01030	0.01027	0.01031		

LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 27 • 2585283 MRA3 D. 09/25/96 22:46
 ****,100-100,DF1,962695720001,8.,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD	REDIG
			#1	#2			
XAg	-0.00037	2.332	-0.00038	-0.00036	-0.00038		
XAl	0.01305	54.61	0.00482	0.01720	0.01713		
XAs	0.00580	234.4	-0.00202	0.02151	-0.00208		
B	0.34879	0.554	0.34996	0.34985	0.34655		
BBa	0.14362	0	0.14362	0.14362	0.14362		
XBe	0.00000	14552	-0.00040	-0.00042	0.00081		
BCa	88.25638	0.383	88.14793	88.63534	87.98587		
CCd	-0.00004	3019.	-0.00004	-0.00153	0.00143		
XCo	0.00349	156.9	0.00947	0.00229	-0.00129		
XCr	0.00055	482.0	-0.00238	0.00291	0.00114		
XCu	0.00168	43.46	0.00126	0.00126	0.00253		
XFe	0.16005	1.066	0.15906	0.16202	0.15906		
XK	3.35282	2.527	3.27420	3.34167	3.44260		
Li	0.03685	7.872	0.03518	0.04021	0.03518		
VMg	28.28123	0.419	28.23502	28.41610	28.19256		
VMn	0.51403	0.457	0.51267	0.51674	0.51267		
MMo	0.00735	26.95	0.00692	0.00951	0.00562		
XNa	52.79957	1.070	53.36472	52.79956	52.23442		
XNI	0.00114	170.7	0.00340	0.00001	0.00001		
Pb	0.00740	116.1	0.00249	0.00238	0.01732		
XSb	0.00254	279.1	0.01073	-0.00153	-0.00157		
Se	-0.01612	13.39	-0.01488	-0.01862	-0.01487		
Si	9.05436	0.084	9.04906	9.05095	9.06308		
Sn	0.01032	193.7	0.03314	0.00202	-0.00419		
Sr	0.54819	0.387	0.54803	0.55040	0.54616		
Ti	-0.00340	27.75	-0.00422	-0.00361	-0.00237		
Tl	0.07289	74.63	0.08792	0.01255	0.11821		
XV	0.00153	168.7	0.00003	0.00453	0.00003		
XZn	0.00683	0.367	0.00682	0.00686	0.00682		

100

LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 28 2585284 MR-3 DD 09/25/96 22:50
 ****, 100-100, DF1, 962695720001, 8.,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3.	REREAD REDIG	
			#1	#2			
X As	-0.00032	5.105	-0.00030	-0.00031	-0.00033		
X Al	0.01583	15.40	0.01727	0.01302	0.01721		
As	0.00185	735.4	0.00970	-0.01387	0.00972		
B	0.33689	1.196	0.33223	0.33913	0.33929		
X Ba	0.14733	0.840	0.14857	0.14733	0.14609		
X Be	0.00121	116.6	-0.00042	0.00202	0.00202		
X Ca	90.80972	0.797	91.23321	91.22207	89.97386		
X Cd	-0.00054	313.6	0.00142	-0.00153	-0.00153		
X Co	0.00409	43.86	0.00588	0.00229	0.00409		
X Cr	-0.00030	824.3	0.00116	0.00116	-0.00324		
X Cu	0.00084	87.13	0.00126	0.00126	0.00000		
X Fe	0.16695	2.045	0.17089	0.16498	0.16497		
X K	3.48809	2.007	3.51063	3.40956	3.54407		
Li	0.03853	3.765	0.03769	0.03769	0.04021		
X Mg	29.03228	0.569	29.14879	29.10508	28.84297		
X Mn	0.53031	0.886	0.53302	0.53303	0.52488		
X Mo	0.00692	0	0.00692	0.00692	0.00692		
X Na	53.86707	0.727	54.18103	53.99265	53.42752		
X Ni	-0.00225	87.07	-0.00339	0.00001	-0.00339		
Pb	-0.00006	27238	0.00996	0.00992	-0.02008		
X Sb	0.00152	692.7	-0.00456	0.01373	-0.00459		
Se	-0.03356	78.53	-0.02982	-0.06160	-0.00927		
Si	9.28590	0.711	9.32636	9.32169	9.20964		
Sn	0.00824	151.1	0.00822	0.02071	-0.00420		
Sr	0.56489	0.697	0.56809	0.56610	0.56049		
Tl	-0.00238	56.20	-0.00177	-0.00146	-0.00393		
Ti	0.08810	17.19	0.08811	0.07293	0.10324		
X V	0.00153	168.4	0.00451	0.00004	0.00003		
X Zn	0.00566	17.80	0.00509	0.00682	0.00506		

LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 29 2585285 MRAPB
 *** 100-100.DF1.962695720001.8.,

09/25/96 22:54

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
X Ag	-0.00077	173.8	-0.00234	0.00000	0.00000		
X Al	0.00350	180.4	0.00900	0.00488	-0.00339		
As	0.00193	353.0	-0.00203	-0.00199	0.00984		
B	0.01142	17.33	0.01028	0.01371	0.01028		
X Ba	0.00000	0	0.00000	0.00000	0.00000		
X Be	-0.00041	1.993	-0.00041	-0.00040	-0.00041		
X Ca	0.06103	1.163	0.06144	0.06144	0.06021		
X Cd	-0.00345	98.95	-0.00741	-0.00148	-0.00148		
X Co	0.00060	513.5	-0.00298	0.00239	0.00240		
X Cr	-0.00058	458.4	0.00234	-0.00116	-0.00294		
X Cu	0.00063	172.9	0.00190	0.00000	0.00000		
X Fe	0.00344	49.62	0.00246	0.00541	0.00245		
X K	-0.06736	152.7	-0.04490	-0.17965	0.02247		
Li	0.00000	0	0.00000	0.00000	0.00000		
X Mg	0.00997	37.98	0.00912	0.00667	0.01411		
X Mn	0.00000	225.4	0.00000	0.00000	0.00000		
Mo	0.00000	0	-0.00086	0.00173	-0.00086		
X Na	0.11513	0.007	0.11512	0.11512	0.11513		
X Ni	-0.00226	86.43	-0.00339	-0.00340	0.00000		
Pb	0.00626	68.83	0.00871	0.00878	0.00128		
X Sb	0.00359	128.8	0.00767	0.00455	-0.00144		
Se	-0.01869	119.8	0.00371	-0.01869	-0.04111		
Si	0.02114	4.400	0.02207	0.02115	0.02021		
Sn	0.00001	98246	0.00831	-0.01655	0.00828		
Sr	0.00041	0	0.00041	0.00041	0.00041		
Ti	-0.00195	72.88	-0.00113	-0.00113	-0.00360		
Tl	0.03778	100.6	0.07302	0.04287	-0.00253		
X V	0.00298	86.37	0.00447	0.00000	0.00446		
X Zn	0.01069	0.150	0.01070	0.01068	0.01070		

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 30 CRI

09/25/96 22:58

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
Ag	0.02114	0.009	0.02114	0.02114	0.02114		
Al	0.09064	7.914	0.08647	0.09892	0.08652		
As	0.02470	72.97	0.04438	0.02074	0.00898		
B	-0.00114	172.6	0.00000	-0.00343	0.00000		
Ba	0.00000	0	0.00000	0.00000	0.00000		
Be	0.00981	14.40	0.00898	0.01144	0.00901		
Ca	0.00866	16.41	0.00949	0.00948	0.00702		
Cd	0.00889	16.66	0.00889	0.01037	0.00741		
Co	0.10798	3.153	0.10558	0.10647	0.11187		
Cr	0.01758	11.58	0.01640	0.01641	0.01993		
Cu	0.05123	1.429	0.05081	0.05208	0.05081		
Fe	0.00197	42.83	0.00246	0.00099	0.00245		
K	0.02245	0.007	0.02246	0.02245	0.02245		
Li	0.00000	0	0.00000	0.00000	0.00000		
Mg	0.00297	174.7	0.00464	0.00715	-0.00285		
Mn	0.03267	0.000	0.03267	0.03267	0.03267		
Mo	0.00173	0	0.00173	0.00173	0.00173		
Na	0.05224	0.032	0.05223	0.05223	0.05226		
Ni	0.07866	6.246	0.08150	0.08150	0.07299		
Pb	0.00784	109.8	0.01780	0.00282	0.00291		
Sb	0.13048	10.18	0.11524	0.13659	0.13963		
Se	-0.00187	853.3	0.01308	-0.01868	0.00000		
Si	0.00445	83.87	0.00444	0.00818	0.00072		
Sn	-0.00370	581.6	-0.02861	0.00873	0.00875		
Sr	0.00008	346.4	-0.00008	0.00041	-0.00008		
Tl	-0.00276	112.5	-0.00235	0.00011	-0.00606		
Tl	0.04965	97.33	0.06964	0.08477	-0.00546		
V	0.10142	5.089	0.10738	0.09843	0.09844		
Zn	0.03949	0.099	0.03953	0.03945	0.03948		

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LANCASTER LABORATORIES

Run Name: 9626903111

INSTRUMENT ID: 02360

Tube: 31 ICSA

09/25/96

23:02

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD REDIG	
			#1	#2	#3			
Ag	0.00531	53.91	0.00261	0.00501	0.00832			
Al	485.92385	0.194	486.95318	485.71627	485.10208			
As	0.24560	28.21	0.18546	0.32138	0.22996			
B	0.08416	1.180	0.08302	0.08487	0.08458			
Ba	0.00619	19.99	0.00742	0.00619	0.00495			
Be	-0.00040	0.460	-0.00040	-0.00040	-0.00040			
Ca	478.09542	0.096	477.66824	478.58120	478.03686			
Cd	0.00513	18.04	0.00463	0.00456	0.00620			
Co	0.00121	224.7	0.00062	-0.00117	0.00420			
Cr	0.00167	62.43	0.00288	0.00110	0.00104			
Cu	-0.00357	35.61	-0.00484	-0.00230	-0.00356			
Fe	179.31272	0.160	179.41864	179.53244	178.98709			
K	0.02824	137.9	-0.01675	0.05080	0.05069			
Li	0.00335	86.60	0.00502	0.00502	0.00000			
Mg	488.66406	0.141	489.30572	488.75341	487.93307			
Mn	-0.02098	11.20	-0.01827	-0.02234	-0.02234			
Mo	-0.01730	22.91	-0.01384	-0.02163	-0.01644			
Na	0.03152	57.48	0.05244	0.02107	0.02104			
Ni	-0.01024	33.15	-0.01363	-0.01024	-0.00684			
Pb	0.01558	55.98	0.00998	0.02564	0.01113			
Sb	-0.00884	80.08	-0.01293	-0.01294	-0.00066			
Se	0.02275	95.73	0.03338	0.03717	-0.00230			
Si	0.17612	2.427	0.17145	0.17705	0.17985			
Sn	0.00367	336.0	0.00365	0.01601	-0.00865			
Sr	0.02010	0	0.02010	0.02010	0.02010			
Ti	-0.01456	12.34	-0.01560	-0.01559	-0.01248			
Tl	0.09845	69.19	0.10358	0.16386	0.02790			
V	0.00199	130.1	0.00351	-0.00100	0.00348			
Zn	0.01532	0.365	0.01534	0.01525	0.01535			

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube#: 32 ICSAB

09/25/96

23:06

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
Al	0.19233	0.367	0.19303	0.19234	0.19162		
Ar	488.92605	0.628	486.00796	488.64010	492.13009		
As	0.40338	18.91	0.38236	0.33980	0.48798		
B	0.06325	3.716	0.06468	0.06455	0.06054		
Br	0.48823	0.638	0.48534	0.48782	0.49153		
Be	0.47820	0.774	0.47497	0.47739	0.48224		
Cd	483.34545	0.551	480.63214	483.44030	485.96395		
Cd	0.89050	0.652	0.89078	0.88456	0.89616		
Cd	0.45052	0.830	0.44633	0.45352	0.45171		
Co	0.46690	1.187	0.46086	0.46808	0.47176		
Cr	0.47489	0.552	0.47280	0.47405	0.47784		
Cu	181.29028	0.617	180.15618	181.31933	182.39532		
Fe	0.05137	132.1	-0.01654	0.05139	0.11926		
K	0.00083	458.2	0.00502	0.00000	-0.00251		
Li	492.14593	0.636	489.19033	491.82000	495.42745		
Mg	0.43157	0.537	0.42889	0.43294	0.43287		
Mn	-0.01297	23.09	-0.01124	-0.01124	-0.01644		
Mo	0.05202	0.016	0.05201	0.05202	0.05202		
Nb	0.88030	0.773	0.88711	0.88030	0.87349		
Pb	0.06294	11.56	0.05462	0.06814	0.06606		
Sb	0.57754	1.059	0.57073	0.58257	0.57932		
Se	0.08637	46.05	0.08089	0.04961	0.12860		
Si	0.10194	2.280	0.10441	0.10161	0.09980		
Sn	0.02577	228.7	0.09231	0.00506	-0.02004		
Te	0.02018	0.356	0.02022	0.02010	0.02022		
Tl	-0.01579	9.970	-0.01418	-0.01733	-0.01587		
U	0.16440	11.50	0.16168	0.18453	0.14700		
V	0.47422	0.947	0.46972	0.47424	0.47871		
Zn	0.90437	0.592	0.89970	0.90318	0.91022		

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LANCASTER LABORATORIES

INSTRUMENT ID: 02360

Run Name: 9626903111

09/25/96

23:10

Tube: 33 CCV

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
Ag	0.46950	0.580	0.46795	0.46791	0.47265		
Al	25.77718	0.446	25.79953	25.65266	25.87934		
As	2.01986	1.721	2.01970	1.98517	2.05471		
B	2.06892	0.724	2.07289	2.05233	2.08153		
Ba	4.89888	0.563	4.91291	4.86710	4.91663		
Be	0.49110	0.746	0.49188	0.48711	0.49432		
Ca	50.86764	0.668	50.78019	50.57988	51.24283		
Cd	4.88249	0.699	4.87952	4.84992	4.91802		
Co	0.97486	1.140	0.97512	0.96360	0.98584		
Cr	5.00391	0.910	5.00623	4.95726	5.04826		
Cu	4.98024	0.605	4.99273	4.94585	5.00213		
Fe	5.00544	0.674	5.01187	4.96890	5.03554		
K	51.19866	0.431	51.23233	50.96285	51.40081		
Li	25.01005	0.907	25.16419	24.74952	25.11644		
Mg	25.36812	0.570	25.38301	25.21655	25.50481		
Mn	4.86403	0.676	4.86812	4.82927	4.89471		
Mo	25.11400	0.838	25.10361	24.90892	25.32945		
Nb	52.31155	0.667	52.58364	51.92510	52.42592		
Ni	9.65798	0.693	9.68290	9.58215	9.70890		
Pb	24.07511	0.713	24.05381	23.91496	24.25655		
Sb	4.85753	1.107	4.83667	4.81730	4.91862		
Se	1.93805	0.309	1.93119	1.94232	1.94065		
Si	10.56582	0.799	10.53035	10.50486	10.66226		
Sn	4.81747	1.127	4.78009	4.79253	4.87978		
Sr	0.98741	0.727	0.99011	0.97927	0.99285		
Ti	2.00720	1.081	2.01667	1.98237	2.02254		
Tl	4.78204	1.590	4.86665	4.71934	4.76014		
V	2.01271	0.858	2.02308	1.99275	2.02229		
Zn	4.85174	0.619	4.83984	4.82945	4.88594		

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LANCASTER LABORATORIES

Run Name: 9626903I11

INSTRUMENT ID: 02360

Tube: 34 CCB

09/25/96

23:14

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	-0.00038	635.1	-0.00116	-0.00233	0.00235			
Al	0.02977	0.257	0.02968	0.02983	0.02980			
As	-0.00999	68.29	-0.01392	-0.01394	-0.00211			
B	0.00283	34.99	0.00340	0.00339	0.00168			
Ba	0.00000	0	0.00000	0.00000	0.00000			
Be	0.00040	351.6	-0.00040	-0.00042	0.00202			
Ca	0.03587	3.982	0.03669	0.03422	0.03670			
Cd	-0.00247	69.17	-0.00445	-0.00148	-0.00148			
Co	0.00119	172.9	-0.00119	0.00239	0.00239			
Cr	-0.00260	173.3	-0.00640	0.00238	-0.00378			
Cu	0.00486	32.83	0.00634	0.00507	0.00316			
Fe	0.01527	11.19	0.01724	0.01428	0.01428			
K	0.01123	173.0	0.02247	-0.01122	0.02247			
Li	0.00502	0	0.00502	0.00502	0.00502			
Mg	0.02149	37.46	0.01326	0.02936	0.02186			
Mn	0.00000	35.24	0.00000	0.00000	0.00000			
Mo	0.01470	30.56	0.01990	0.01211	0.01211			
Na	0.06274	28.90	0.05225	0.05228	0.08369			
Ni	0.00003	10867	0.00004	0.00342	-0.00337			
Pb	0.01127	101.8	0.00124	0.02378	0.00878			
Sb	0.01987	40.62	0.02902	0.01683	0.01376			
Se	0.00871	173.2	0.02241	0.01121	-0.00747			
Si	0.02207	11.17	0.02392	0.02302	0.01927			
Sn	0.01249	57.39	0.00837	0.02076	0.00832			
Sr	0.00033	43.30	0.00041	0.00016	0.00041			
Ti	0.00010	1044.	0.00133	-0.00051	-0.00051			
Tl	0.03771	115.5	0.08802	0.01243	0.01268			
V	0.00157	164.0	0.00010	0.00455	0.00006			
Zn	0.00000	204.9	-0.00002	0.00000	0.00000			

Data Reviewed by:

LRD/142 9/26/96

109

Data Verified by:

M. Sharkey 9-28-96

Furnace Data

110

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

JMS088

DATA VERIFIED BY:

ET1807

DATA FILE NAME: ASP6903.RAT
RUN NAME: 9626902F04

INSTRUMENT NO: 04724
OKG CORR: BZ

ANALYST: GS

ELEMENT: AS

Concentration is used to evaluate if sample results are within **111**
calibration range.

RUN NAME: 9626002F04

PAGE: 1

ANALYST: GS

LANCASTER LABORATORIES

INSTRUMENT ID: 04724

OFAA ELEMENT: AS

TUBE: 1 09/25/96 16:20
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 0.8400 167.4 0.003 0.005 -0.000

TUBE: 2 09/25/96 16:24
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S10 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 11.3700 6.1 0.032 0.031 0.034

TUBE: 3 09/25/96 16:20
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S20 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 23.0900 1.8 0.075 0.076 0.074

TUBE: 4 09/25/96 16:33
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 38.6500 2.7 0.143 0.140 0.146

TUBE: 5 09/25/96 16:37
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S60 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 58.5900 1.6 0.211 0.214 0.209

TUBE: 6 09/25/96 16:41
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 S80 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 82.0200 1.0 0.291 0.293 0.289

TUBE: 7 09/25/96 16:46
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 49.3800 0.8 0.177 0.178 0.176

%RECOVERY = 98.8

113

ROB NAME: 0026902104
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 8 09/25/96 16:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.2400 410.2 0.000 0.003 -0.003

TUBE: 9 09/25/96 16:54
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CKA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.7200 5.0 0.030 0.036 0.039

TUBE: 10 09/25/96 16:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
41.5400 0.4 0.149 0.149 0.149

XRECOVERY = 103.8

TUBE: 11 09/25/96 17:00
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0900 ***** -0.001 0.002 -0.004

TUBE: 12 09/25/96 17:06
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW PBW ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.9000 17.8 0.002 0.003 0.002 - -

TUBE: 13 09/25/96 17:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW PBWA ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.3300 2.3 0.069 0.060 0.070

XRECOVERY = 96.6

118

RUN NAME: 9626902F04
PAGE: 3
ANALYST: GS

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 14 09/25/96 17:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW LCSW ***** 1 1 1 962691056001
U
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
37.6400 0.7 0.135 0.134 0.136 — —

TUBE: 15 09/25/96 17:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW LCSW A ***** 1 1 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
58.9000 1.3 0.212 0.210 0.214

*RECOVERY = 106.3

TUBE: 16 09/25/96 17:24
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRA2S ***** 100 100 1 962691056001
U
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.1500 41.9 0.003 0.004 0.002 — —

TUBE: 17 09/25/96 17:28
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRA2S A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
22.1900 4.0 0.079 0.077 0.081

*RECOVERY = 111.0

TUBE: 18 09/25/96 17:32
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRA2S D ***** 100 100 1 962691056001
U
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.3800 3.9 0.004 0.004 0.004 — —

TUBE: 19 09/25/96 17:37
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRA2S DA ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.4100 4.4 0.076 0.074 0.079

*RECOVERY = 100.2

114

RUN NAME: 9626902F04
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 20 09/25/96 17:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585279 MRAA S S ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
40.2000 0.6 0.144 0.145 0.144 — —

TUBE: 21 09/25/96 17:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
60.6800 0.9 0.218 0.217 0.220

XRECOVERY = NOT APPLICABLE

TUBE: 22 09/25/96 17:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
43.8300 1.3 0.157 0.150 0.156

XRECOVERY = 109.6

TUBE: 23 09/25/96 17:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.8500 30.2 0.002 0.003 0.001

TUBE: 24 09/25/96 17:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585276 ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.5100 190.4 0.001 -0.002 0.003 SF —

TUBE: 25 09/25/96 18:02
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585276 ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.6600 1.5 0.074 0.074 0.073

XRECOVERY = 103.3

115

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

EAT807

DATA VERIFIED BY:

*RDS 114
4/27/86*

DATA FILE NAME: 0527001.RAT
RAW NAME: 9627002F04

INSTRUMENT NO: 04724
BKG CORR: BZ

ANALYST: ASD

ELEMENT: AS

RUN NAME: 9627002F04
PAGE: 1
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 1 09/26/96 04:15
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0 .0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.6500 05.8 -0.002 -0.001 0.003

TUBE: 2 09/26/96 04:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S10 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.4800 7.9 0.030 0.031 0.028

TUBE: 3 09/26/96 04:24
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S20 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.4700 0.6 0.050 0.058 0.058

TUBE: 4 09/26/96 04:28
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S40 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
41.4900 2.3 0.120 0.118 0.122

TUBE: 5 09/26/96 04:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S60 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
61.4400 0.6 0.184 0.183 0.185

TUBE: 6 09/26/96 04:36
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S80 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
77.4900 0.2 0.237 0.236 0.237

TUBE: 7 09/26/96 04:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICV 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
50.5200 3.7 0.151 0.147 0.155

117

RUN NAME: 9627002F04
AGE: 7
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
QFAA ELEMENT: AS

TUBE: 8 09/26/96 04:45
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.3800 604.6 0.001 0.006 -0.004

TUBE: 9 09/26/96 04:47
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.8200 0.2 0.032 0.032 0.032

TUBE: 10 09/26/96 04:53
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.6000 0.6 0.128 0.127 0.128

XRECOVERY = 106.5

TUBE: 11 09/26/96 04:57
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.6800 4.9 0.002 0.002 0.002

TUBE: 12 09/26/96 05:01
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2505276 MRAIS ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4400 32.5 -0.001 -0.001 -0.002

TUBE: 13 09/26/96 05:05
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2505276 MRAIS A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.2900 1.7 0.064 0.065 0.063

XRECOVERY = 106.4

118

RUN NAME: 9627002F04
PAGE: 3
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
OFAA ELEMENT: AG

TUBE: 14 09/26/96 05:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585277 MRA10 ***** 100 100 1 962691056001
U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4900 204.7 -0.002 0.001 -0.004

TUBE: 15 09/26/96 05:14
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585277 MRA10 A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.7300 3.2 0.056 0.057 0.055
*RECOVERY = 93.6

TUBE: 16 09/26/96 05:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585278 MRA20 ***** 100 100 1 962691056001
U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.5900 99.1 0.002 0.003 0.000

TUBE: 17 09/26/96 05:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585278 MRA20 A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.2700 8.9 0.064 0.060 0.068
*RECOVERY = 106.4

TUBE: 18 09/26/96 05:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 MRA45 ***** 100 100 1 962691056001
U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.2100 87.5 -0.004 -0.001 -0.006

TUBE: 19 09/26/96 05:32
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 MRA45 A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.0400 4.9 0.054 0.052 0.056
*RECOVERY = 90.2

110

RUN NAME: 9627002F04
PAGE: 4
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
GFAA ELEMENT: AS

TUBE: 20 09/26/96 05:36
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 ***** 100 100 1 962691056001
mla35
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.3500 451.3 -0.001 0.002 -0.005

TUBE: 21 09/26/96 05:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 ***** 100 100 1 962691056001
mla35 A
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.5100 1.3 0.061 0.061 0.062
XRECOVERY = 102.6

TUBE: 22 09/26/96 05:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CLV 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.1600 2.3 0.126 0.124 0.128
XRECOVERY = 105.4

TUBE: 23 09/26/96 05:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCR 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
1.0600 60.3 0.003 0.002 0.004

TUBE: 24 09/26/96 05:52
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 ***** 100 100 1 962691056001
mla3D
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
1.7300 146.4 0.005 -0.000 0.010

TUBE: 25 09/26/96 05:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 ***** 100 100 1 962691056001
mla3DA
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.4200 3.0 0.064 0.063 0.065
XRECOVERY = 98.4

120

RUN NAME: 9627002F04
PAGE: 5
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
QFAA ELEMENT: AS

TUBE: 26 09/26/96 06:01

SAMPLE CLASS IVOL/WT
2585284 ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

MR300

AVG(ppb) XRPD AVG abs
1.2800 102.6 0.004

BURN 1 BURN 2 BR RD
0.006 0.001

TUBE: 27 09/26/96 06:03

SAMPLE CLASS IVOL/WT
2585284 ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

MR300 A

AVG(ppb) XRPD AVG abs
20.9200 5.0 0.063

BURN 1 BURN 2
0.065 0.060

*RECOVERY = 98.2

TUBE: 28 09/26/96 06:03

SAMPLE CLASS IVOL/WT
2585285 ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

MRAFB

AVG(ppb) XRPD AVG abs
1.3900 120.4 0.004

BURN 1 BURN 2 BR RD
0.008 0.000

TUBE: 29 09/26/96 06:14

SAMPLE CLASS IVOL/WT
2585285 ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

MRAFB A

AVG(ppb) XRPD AVG abs
18.5400 3.0 0.055

BURN 1 BURN 2
0.057 0.054

*RECOVERY = 85.8

TUBE: 30 09/26/96 06:18

SAMPLE CLASS IVOL/WT
PBW ZZZZZZ ***** 100

EVOL DF BATCH NUMBER
100 1 962691056002

AVG(ppb) XRPD AVG abs
0.1400 472.0 0.000

BURN 1 BURN 2 BR RD
0.002 -0.001

TUBE: 31 09/26/96 06:22

SAMPLE CLASS IVOL/WT
PBW ZZZZZZ ***** 100

EVOL DF BATCH NUMBER
100 1 962691056002

AVG(ppb) XRPD AVG abs
18.6400 6.4 0.056

BURN 1 BURN 2
0.053 0.050

*RECOVERY = 93.2

121

RUN NAME: 9627002F04
PAGE: 6
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04724
OFAA ELEMENT: AS

TUBE: 32 09/26/96 06:26
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
37.3200 4.4 0.112 0.108 0.115

TUBE: 33 09/26/96 06:30
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
57.1000 1.8 0.171 0.169 0.173

%RECOVERY = 98.9

TUBE: 34 09/26/96 06:34
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
41.6500 0.0 0.125 0.125 0.125

%RECOVERY = 104.1

TUBE: 35 09/26/96 06:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.9900 57.6 0.003 0.004 0.002

TUBE: 36 09/26/96 06:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585290 U***** 100 100 1 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.1100 35.6 -0.003 -0.004 -0.003

TUBE: 37 09/26/96 06:46
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2535290 U***** 100 100 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.2300 4.7 0.055 0.056 0.053

%RECOVERY = 91.2

122

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Glaukenhaus/855*

DATA VERIFIED BY: *RTD/114*
akr/96

DATA FILE NAME: P826911
RUN NAME: 9626905F03

INSTRUMENT NO: 03812
OKG CORR: BZ

ANALYST: GA

ELEMENT: PB

Concentration is used to evaluate if sample results are within calibration range.

123

RUN NAME: 9626905F03

PAGE: 1

ANALYST: 68

LANCASTER LABORATORIES

INSTRUMENT ID: 03812

CFRA ELEMENT: PB

TUBE: 1 09/25/96 16:25
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 0.0000 0.0 0.004 0.005 0.004

TUBE: 2 09/25/96 16:30
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 3.0000 17.4 0.023 0.020 0.025

TUBE: 3 09/25/96 16:35
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S9 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 9.0000 0.1 0.053 0.053 0.053

TUBE: 4 09/25/96 16:40
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 15.0000 6.6 0.089 0.085 0.093

TUBE: 5 09/25/96 16:45
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S30 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 30.0000 2.3 0.175 0.172 0.177

TUBE: 6 09/25/96 16:50
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 S60 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 60.0000 2.3 0.300 0.295 0.305

TUBE: 7 09/25/96 16:54
 SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
 ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 21.6900 2.0 0.120 0.120 0.129

XRECOVERY = 100.4

124

FILE: 0000000000
PAGE: 2
ANALYST: 68

INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 8 09/25/96 16:59
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.2500 93.5 0.002 0.003 0.001

TUBE: 9 09/25/96 17:04
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CKA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
3.1200 4.7 0.023 0.023 0.024

TUBE: 10 09/25/96 17:04
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.6400 5.6 0.139 0.144 0.133

TUBE: 11 09/25/96 17:13
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
27.2600 1.3 0.159 0.150 0.161

*RECOVERY = 109.0

TUBE: 12 09/25/96 17:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.2300 99.9 0.002 0.005 -0.002

TUBE: 13 09/25/96 17:22
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW PBW ***** 100 100 1 962691056001
X AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.0000 99.9 -0.001 -0.002 0.001 — —

125

RUN NAME: 0626905F00

PAGE: 3

ANALYST: 68

LANCASTER LABORATORIES

INSTRUMENT ID: 03812

CFAS ELEMENT: PD

TUBE: 14

09/25/96 17:27

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

PRW

PBWA

100

100

1

962691056001

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

16.5100

1.6

0.109

0.111

0.108

*RECOVERY = 92.6

TUBE: 15

09/25/96 17:32

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

LCSW

LCSW

1

1

1

962691056001

X

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

RR RD

20.1700

3.3

0.119

0.116

0.122

TUBE: 16

09/25/96 17:36

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

LCSW

LCSWA

1

1

1

962691056001

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

36.4400

0.1

0.207

0.207

0.207

*RECOVERY = 81.4

TUBE: 17

09/25/96 17:41

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

2585279

MRA2S

100

100

1

962691056001

X

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

RR RD

1.5100

20.2

0.011

0.013

0.010

TUBE: 18

09/25/96 17:46

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

2585279

MRA2SA

100

100

1

962691056001

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

12.4100

4.4

0.073

0.076

0.071

*RECOVERY = 54.5

TUBE: 19

09/25/96 17:50

SAMPLE

CLASS

IVOL/WT

FVOL

DF

BATCH NUMBER

2585279

MRA2S D

100

100

1

962691056001

X

AVG(ppb)

XRPD

AVG abs

BURN 1

BURN 2

RR RD

0.1400

19.1

0.001

0.001

0.001

126

RUN NAME: 9626905F03
TUBE: 1
ANALYST: 60

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
OFAA ELEMENT: PD

TUBE: 20 09/25/96 17:55
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585279 ***** 100 100 1 962691056001

MASS DA

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2
10.6600	1.0	0.063	0.063	0.063

*RECOVERY = 53.3

TUBE: 21 09/25/96 18:00
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585279 ***** 100 100 1 962691056001

MASS S

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
14.3000	0.2	0.085	0.085	0.085	—	—

TUBE: 22 09/25/96 18:05
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2
23.1600	2.5	0.136	0.135	0.134

*RECOVERY = NOT APPLICABLE

TUBE: 23 09/25/96 18:09
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2
26.3100	2.2	0.154	0.151	0.156

*RECOVERY = 105.2

TUBE: 24 09/25/96 18:14
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2
-0.0900	99.9	-0.001	0.001	-0.002

TUBE: 25 09/25/96 18:10
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585276 ***** 100 100 1 962691056001

MASS

AVG (ppb)	%RPD	AVG abs	BURN 1	BURN 2	RR	RD
2.5700	5.1	0.019	0.020	0.019	MA	—

13

RUN NAME: 9626905F03
PAGE: 5
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 26 09/25/96 18:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585276 ***** 100 100 1 962691056001
MRA15 A
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.4600 10.0 0.092 0.085 0.078
%RECOVERY = 64.4

TUBE: 27 09/25/96 18:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585277 ***** 100 100 1 962691056001
MRA10
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4500 6.0 -0.003 -0.003 -0.004

TUBE: 28 09/25/96 18:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585277 ***** 100 100 1 962691056001
MRA10 A
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.9700 12.5 0.065 0.071 0.059
%RECOVERY = 54.8

TUBE: 29 09/25/96 18:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585278 ***** 100 100 1 962691056001
MRA2 D
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4100 38.3 -0.003 -0.004 -0.002

TUBE: 30 09/25/96 18:42
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585278 ***** 100 100 1 962691056001
MRA2 D A
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.4100 8.0 0.079 0.084 0.075
%RECOVERY = 67.0

TUBE: 31 09/25/96 18:46
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585281 ***** 100 100 1 962691056001
MRA4 S
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.6400 71.8 -0.005 -0.002 -0.007
61

128

RUN NAME: 9626905F03
PAGE: 6
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 32 09/25/96 18:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 M2A45 A ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
6.5200 1.9 0.042 0.043 0.042

XRECOVERY = 32.6

TUBE: 33 09/25/96 18:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585282 M2A35 ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4700 1.7 -0.004 -0.004 -0.003 — —

TUBE: 34 09/25/96 19:00
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585282 M2A35 A ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
12.8800 4.5 0.076 0.079 0.074

XRECOVERY = 64.4

TUBE: 35 09/25/96 19:05
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
26.8800 0.6 0.157 0.156 0.158

XRECOVERY = 107.5

TUBE: 36 09/25/96 19:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.4400 65.5 -0.003 -0.002 -0.005

TUBE: 37 09/25/96 19:11
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585283 ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.5400 23.0 -0.004 -0.003 -0.005 — —

SF

129

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

Glaukenhapt 859

DATA VERIFIED BY:

EWB

DATA FILE NAME: P826915
RUN NAME: 9627001F03

INSTRUMENT NO: 03812
BKG CORR: BZ

ANALYST: ASS

ELEMENT: PR

130

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9627001F03

PAGE: 1

ANALYST: 859

LANCASTER LABORATORIES

INSTRUMENT ID: 63812

GPAA ELEMENT: PB

TUBE: 1 09/25/96 23:34
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 0.0000 0.0 0.003 0.005 0.002

TUBE: 2 09/25/96 23:30
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 3.0000 13.2 0.027 0.024 0.029

TUBE: 3 09/25/96 23:44
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S9 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 9.0000 4.7 0.066 0.069 0.064

TUBE: 4 09/25/96 23:40
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 15.0000 4.4 0.105 0.108 0.101

TUBE: 5 09/25/96 23:53
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S30 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 30.0000 0.7 0.200 0.201 0.199

TUBE: 6 09/25/96 23:50
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 S60 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 60.0000 0.5 0.332 0.331 0.334

TUBE: 7 09/26/96 00:03
 SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
 ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
 19.9000 3.7 0.137 0.133 0.140

XRECOVERY = 99.5

131

RUN NAME: 9627001F03
PAGE: 7
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 8 09/26/96 00:07
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
ICB 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.5500 1.8 0.005 0.005 0.005

TUBE: 9 09/26/96 00:10
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CRA 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
3.2900 2.8 0.029 0.028 0.030

TUBE: 10 09/26/96 00:17
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ ***** 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.9200 0.4 0.150 0.150 0.149

TUBE: 11 09/26/96 00:21
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCV 1 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
26.1100 0.2 0.176 0.176 0.176

XRECOVERY = 104.4

TUBE: 12 09/26/96 00:26
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.7900 59.6 0.007 0.010 0.004

TUBE: 13 09/26/96 00:31
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2585281 MAYA ***** 100 5 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.6600 0.0 0.006 0.006 0.006

RUN NAME: 0627001F03

PAGE: 3

ANALYST: 359

LANCASTER LABORATORIES

INSTRUMENT ID: 03012

QFAA ELEMENT: PB

TUBE: 14 09/26/96 00:35
 SAMPLE 2585281 *MR245A* CLASS ***** IVOL/WT 100
 FVOL 100 DF 5 BATCH NUMBER 962691056001

AVG(ppb) 16.9000 XRPD 2.1 AVG abs 0.118
 BURN 1 0.116 BURN 2 0.119

%RECOVERY = 84.9

TUBE: 15 09/26/96 00:40
 SAMPLE 2585283 *MR23D* CLASS ***** IVOL/WT 100
 FVOL 100 DF 1 BATCH NUMBER 962691056001

AVG(ppb) 0.7400 XRPD 5.5 AVG abs 0.007
 BURN 1 0.006 BURN 2 0.007 RR RD

TUBE: 16 09/26/96 00:45
 SAMPLE 2585282 *MR230A* CLASS ***** IVOL/WT 100
 FVOL 100 DF 1 BATCH NUMBER 962691056001

AVG(ppb) 13.1000 XRPD 0.2 AVG abs 0.093
 BURN 1 0.093 BURN 2 0.093

%RECOVERY = 65.5

TUBE: 17 09/26/96 00:49
 SAMPLE 2585284 *MR300* CLASS ***** IVOL/WT 100
 FVOL 100 DF 1 BATCH NUMBER 962691056001

AVG(ppb) 0.5300 XRPD 53.6 AVG abs 0.005
 BURN 1 0.007 BURN 2 0.003 RR RD

TUBE: 18 09/26/96 00:54
 SAMPLE 2585284 *MR300A* CLASS ***** IVOL/WT 100
 FVOL 100 DF 1 BATCH NUMBER 962691056001

AVG(ppb) 14.0000 XRPD 3.1 AVG abs 0.099
 BURN 1 0.096 BURN 2 0.101

%RECOVERY = 70.0

TUBE: 19 09/26/96 00:59
 SAMPLE 2585285 *MR2AFB* CLASS ***** IVOL/WT 100
 FVOL 100 DF 1 BATCH NUMBER 962691056001

AVG(ppb) 0.5500 XRPD 57.2 AVG abs 0.005
 BURN 1 0.003 BURN 2 0.007 RR RD

133

RUN NAME: 9627001F03
PAGE: 4
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: PB

TUBE: 20 09/26/96 01:04
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585285 ***** 100 100 1 962691056001
MRAPBA
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.2900 0.6 0.133 0.139 0.126
XRECOVERY = 96.4

TUBE: 21 09/26/96 01:05
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962691056002
U
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.7200 22.4 0.006 0.007 0.005

TUBE: 22 09/26/96 01:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962691056002
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.6400 0.4 0.141 0.141 0.142
XRECOVERY = 103.2

TUBE: 23 09/26/96 01:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
26.2900 0.9 0.177 0.173 0.176
XRECOVERY = 105.2

TUBE: 24 09/26/96 01:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 2 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.7800 39.9 0.007 0.009 0.005

TUBE: 25 09/26/96 01:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962691056002
U
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
21.9600 5.4 0.150 0.144 0.156

134

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *ERT807*

DATA VERIFIED BY: *RDG/4*
ghelac

DATA FILE NAME: PB27003
RUN NAME: 9627002F03

INSTRUMENT NO: 03812
SKC CORR: BZ

ANALYST: 859

ELEMENT: PB

135

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9627002F03
PAGE: 1
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 03012
GFAA ELEMENT: P6

TUBE: 1 09/26/96 04:54
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
50 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 0.0 0.001 0.001 0.000

TUBE: 2 09/26/96 04:56
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
93 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
3.0000 0.0 0.020 0.020 0.000

TUBE: 3 09/26/96 04:59
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
99 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.0000 0.0 0.060 0.060 0.000

TUBE: 4 09/26/96 05:02
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S15 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.0000 0.0 0.102 0.102 0.000

TUBE: 5 09/26/96 05:04
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S30 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.0000 0.0 0.204 0.204 0.000

TUBE: 6 09/26/96 05:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S60 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
60.0000 0.0 0.347 0.347 0.000

TUBE: 7 09/26/96 05:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.6900 0.0 0.140 0.140 0.000

%RECOVERY = 103.4

136

RUN NAME: 9627002F03
PAGE: 2
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 03812
GFAA ELEMENT: Pb

TUBE: 8 09/26/96 05:12
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICB 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.4000 0.0 0.003 0.003 0.000

TUBE: 9 09/26/96 05:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CNA 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
3.0300 0.0 0.025 0.025 0.000

TUBE: 10 09/26/96 05:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
25.9500 0.0 0.176 0.176 0.000

XRECOVERY = 103.8

TUBE: 11 09/26/96 05:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.2000 0.0 0.001 0.001 0.000

TUBE: 12 09/26/96 05:22
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MRAIS 0 ***** 100 100 1 962691056001

CONC(ppb) BURN 1
2.8900 0.019

TUBE: 13 09/26/96 05:25
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MRAIS 1 ***** 100 100 1 962691056001

CONC(ppb) BURN 1
6.9300 0.046

TUBE: 14 09/26/96 05:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MRAIS 2 ***** 100 100 1 962691056001

CONC(ppb) BURN 1
10.8400 0.072

137

RUN NAME: 9627002F03
PAGE: 3
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 03012
GFAA ELEMENT: PB

TUBE: 15 09/26/96 05:30
SAMPLE CLASS IVOL/WT
2585276 MEALS 3 ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

CONC(ppb) BURN 1
13.8900 0.094

X INT 4.00390 RR KD
CORR COEF = 0.99894
SLOPE = 0.00502
Y INT = 0.02010

TUBE: 16 09/26/96 05:32
SAMPLE CLASS IVOL/WT
CCV 2 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
25.6900 0.0 0.174 0.174 0.000

XRECOVERY = 102.8

TUBE: 17 09/26/96 05:35
SAMPLE CLASS IVOL/WT
CCB 2 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.1000 0.0 -0.001 -0.001 0.000

DATA REVIEWED BY:

EJTB 7

DATA VERIFIED BY:

RDG 14
shelac

138

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

Jms028

DATA VERIFIED BY:

*RDG/ly
9/21/96*

DATA FILE NAME: SEF7002.RAT
RUN NAME: 9627001F05

INSTRUMENT NO: 04725
SKC CORR: BZ

ANALYST: A09

ELEMENT: SE

139

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9627001F05
PAGE: 1
ANALYST: BOB

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFHA ELEMENT: SE

TUBE: 1 09/26/96 08:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.3900 119.4 0.001 0.002 0.001

TUBE: 2 09/26/96 08:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S5 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
5.8700 7.0 0.015 0.016 0.015

TUBE: 3 09/26/96 08:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S15 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.3600 1.4 0.041 0.041 0.041

TUBE: 4 09/26/96 08:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S25 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.2400 0.4 0.067 0.066 0.067

TUBE: 5 09/26/96 08:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S40 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.2800 0.2 0.102 0.102 0.102

TUBE: 6 09/26/96 08:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S50 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
50.9700 1.1 0.131 0.132 0.130

TUBE: 7 09/26/96 09:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
1CV 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.8500 8.8 0.053 0.049 0.056

%RECOVERY = 99.2

140

RUN NAME: 9627001F05
PAGE: 7
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SC

TUBE: 8 09/26/96 09:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.9100 37.6 -0.001 -0.001 -0.000

TUBE: 9 09/26/96 09:07
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
4.0700 4.8 0.012 0.012 0.012

TUBE: 10 09/26/96 09:13
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.5500 2.3 0.065 0.064 0.066

%RECOVERY = 98.2

TUBE: 11 09/26/96 09:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.1200 18.0 -0.001 -0.001 -0.002

TUBE: 12 09/26/96 09:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.1600 26.4 -0.001 -0.001 -0.002

TUBE: 13 09/26/96 09:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.1200 0.9 0.028 0.020 0.027

%RECOVERY = 101.2

RUN NAME: 9627001F05
PAGE: 3
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SE

TUBE: 14 09/26/96 09:30
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
8.7800 2.6 0.024 0.024 0.025

TUBE: 15 09/26/96 09:34
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.6600 1.3 0.052 0.052 0.053

XRECOVERY = 108.8

TUBE: 16 09/26/96 09:38
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 ZZZZZZ ***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
16.9600 1.7 0.045 0.045 0.046

TUBE: 17 09/26/96 09:42
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583205 ZZZZZZ ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
25.5800 0.9 0.067 0.067 0.068

XRECOVERY = 86.2

TUBE: 18 09/26/96 09:46
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 ZZZZZZ ***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.0800 ***** 0.002 0.005 -0.001

TUBE: 19 09/26/96 09:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583206 ZZZZZZ ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
7.2300 9.9 0.020 0.019 0.021

XRECOVERY = 72.3

RUN NAME: 9627001F05
PAGE: 4
ANALYST: 889

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SC

TUBE: 20 09/26/96 09:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 ***** 100 100 1 962681056001

~~V~~

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.0400 1.6 -0.001 -0.001 -0.001

TUBE: 21 09/26/96 09:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583207 ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
8.4700 5.5 0.023 0.024 0.022

*RECOVERY = 84.7

TUBE: 22 09/26/96 10:03
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.7800 4.1 0.063 0.061 0.064

*RECOVERY = 95.1

TUBE: 23 09/26/96 10:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.1800 43.0 -0.002 -0.001 0.002

TUBE: 24 09/26/96 10:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 ***** 100 100 1 962681056001

~~V~~

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.6800 146.8 0.003 0.001 0.005

TUBE: 25 09/26/96 10:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583208 ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.9300 5.5 0.027 0.026 0.028

*RECOVERY = 99.3

146

RUN NAME: 9627001F05
PAGE: 1
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SC

TUBE: 26 09/26/96 10:19
SAMPLE 2583209 ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583209 ZZZZZZ D***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.9300 23.3 -0.001 -0.001 -0.000

TUBE: 27 09/26/96 10:23
SAMPLE 2583209 ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583209 ZZZZZZ D***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
8.8700 1.5 0.024 0.024 0.025

%RECOVERY = 88.7

TUBE: 28 09/26/96 10:27
SAMPLE 2583209 ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583209 ZZZZZZ D***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.1100 40.8 -0.001 -0.001 -0.002

TUBE: 29 09/26/96 10:31
SAMPLE 2583209 ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583209 ZZZZZZ D***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.1100 1.4 0.025 0.025 0.025

%RECOVERY = 91.1

TUBE: 30 09/26/96 10:35
SAMPLE 2583209 ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583209 ZZZZZZ R***** 100 100 1 962681056001

U
X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
7.6000 7.9 0.021 0.020 0.022

TUBE: 31 09/26/96 10:39
SAMPLE ZZZZZZ CLASS: IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ R***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
16.9500 0.8 0.045 0.045 0.045

%RECOVERY = NOT APPLICABLE

144

RUN NAME: 9627001F05
PAGE: 6
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 32 09/26/96 10:43
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2583210 ZZZZZZ ***** 100 100 1 962681056001
U
X
AVG (ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
13.8900 6.3 0.037 0.039 0.036 --- ---

TUBE: 33 09/26/96 10:47
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2583210 ZZZZZZ ***** 100 100 1 962681056001
AVG (ppb) XRPD AVG abs BURN 1 BURN 2
23.2900 3.3 0.061 0.063 0.060

XRECOVERY = 94.0

TUBE: 34 09/26/96 10:51
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCV 3 0 0 1
AVG (ppb) XRPD AVG abs BURN 1 BURN 2
23.2300 0.1 0.061 0.061 0.061

XRECOVERY = 92.9

TUBE: 35 09/26/96 10:55
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 3 0 0 1
AVG (ppb) XRPD AVG abs BURN 1 BURN 2
-1.3200 5.5 -0.002 -0.002 -0.002

TUBE: 36 09/26/96 10:59
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2583823 ZZZZZZ ***** 100 100 1 962681056001
U
X
AVG (ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.4700 15.8 -0.002 -0.002 -0.003 --- ---

TUBE: 37 09/26/96 11:03
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2583823 ZZZZZZ ***** 100 100 1 962681056001
AVG (ppb) XRPD AVG abs BURN 1 BURN 2
9.9500 6.4 0.027 0.026 0.028

XRECOVERY = 99.5

RUN NAME: 9627001F05
PAGE: 7
ANALYST: A09

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OPAA ELEMENT: SC

TUBE: 38 09/26/96 11:07
SAMPLE 2583824 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

~~U~~
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
4.6600 7.2 0.014 0.014 0.013

TUBE: 39 09/26/96 11:11
SAMPLE 2583824 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
14.1200 4.4 0.038 0.037 0.039

XRECOVERY = 94.6

TUBE: 40 09/26/96 11:15
SAMPLE 2583825 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

~~U~~
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
9.9100 141.5 0.027 0.052 0.001

TUBE: 41 09/26/96 11:19
SAMPLE 2583825 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
12.2000 14.6 0.033 0.030 0.036

XRECOVERY = 0.0

TUBE: 42 09/26/96 11:23
SAMPLE 2583826 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 5 BATCH NUMBER 962681056001

~~U~~
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
24.8200 1.7 0.065 0.066 0.065

TUBE: 43 09/26/96 11:27
SAMPLE 2583826 ZZZZZZ CLASS ***** IVOL/WT 100
FVOL 100 DF 5 BATCH NUMBER 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
35.1800 3.6 0.092 0.090 0.094

XRECOVERY = 103.6

RUN NAME: 9627001F05
PAGE: 8
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
QFAA ELEMENT: SE

TUBE: 44 09/26/96 11:31
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583827 ZZZZZZ ***** 100 100 1 962681056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.2000 24.1 -0.002 -0.002 -0.001 Red

TUBE: 45 09/26/96 11:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583827 ZZZZZZ ***** 100 100 1 962681056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
17.5600 43.9 0.047 0.001 0.033

*RECOVERY = 175.6

TUBE: 46 09/26/96 11:39
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 4 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.0400 0.6 0.061 0.001 0.061

*RECOVERY = 92.2

TUBE: 47 09/26/96 11:43
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 4 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-2.2500 21.7 -0.004 -0.003 -0.005

TUBE: 48 09/26/96 11:47
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW PBW ***** 100 100 1 962691056001
X V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.5400 22.1 -0.002 -0.003 -0.002

TUBE: 49 09/26/96 11:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW PBWA ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
11.2800 4.2 0.031 0.030 0.031

*RECOVERY = 112.8

14

PAGE: 5
ANALYST: 809

INSTRUMENT ID: 04725
OFAA ELEMENT: SE

TUBE: 50 09/26/96 11:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW *LCSW* ***** 1 1 1 962691056001

X *V* AUG(ppb) XRPD AUG abs BURN 1 BURN 2 RR RD
8.3200 4.0 0.023 0.022 0.024 — —

TUBE: 51 09/26/96 11:50
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW *LCSW A* ***** 1 1 1 962691056001

AUG(ppb) XRPD AUG abs BURN 1 BURN 2
24.6000 2.5 0.065 0.061 0.069

*RECOVERY = 162.8

TUBE: 52 09/26/96 12:04
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 *meas* ***** 100 100 1 962691056001

V AUG(ppb) XRPD AUG abs BURN 1 BURN 2 RR RD
68.3700 2.3 0.177 0.180 0.175 *AS* —
OVER CALIBRATION RANGE

TUBE: 53 09/26/96 12:08
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 *meas A* ***** 100 100 1 962691056001

AUG(ppb) XRPD AUG abs BURN 1 BURN 2
81.2400 0.5 0.211 0.211 0.210

*RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

TUBE: 54 09/26/96 12:12
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 *meas* ***** 100 100 1 962691056001

V AUG(ppb) XRPD AUG abs BURN 1 BURN 2 RR RD
74.1700 6.5 0.192 0.201 0.184 *AS* —
OVER CALIBRATION RANGE

TUBE: 55 09/26/96 12:16
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 *meas DA* ***** 100 100 1 962691056001

AUG(ppb) XRPD AUG abs BURN 1 BURN 2
84.7200 1.1 0.219 0.210 0.221

*RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

RUN NAME: 9627001F05
PAGE: 10
ANALYST: 609

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA CLEMENT: SC

TUBE: 56 09/26/96 12:20
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2585279 ***** 100 100 1 962691056001
MRAAS S

V	AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-	74.1400	1.5	0.192	0.190	0.194	XS	-

OVER CALIBRATION RANGE

TUBE: 57 09/26/96 12:24
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
90.6200	0.5	0.235	0.235	0.234

XRECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

TUBE: 58 09/26/96 12:29
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCV 5 ***** 0 0 1

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
22.8600	1.6	0.060	0.060	0.061

XRECOVERY = 91.4

TUBE: 59 09/26/96 12:33
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
CCB 5 ***** 0 0 1

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
-0.8500	65.0	-0.001	0.000	-0.002

TUBE: 60 09/26/96 12:36
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2585276 MRAIS ***** 100 100 1 962691056001

V	AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-	0.7800	16.2	0.004	0.003	0.004	4	-

TUBE: 61 09/26/96 12:41
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
2585276 MRAIS A ***** 100 100 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
10.9200	0.6	0.030	0.030	0.029

XRECOVERY = 101.4

149

RUN NAME: 9627001F05
PAGE: 11
ANALYST: 609

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: 3C

TUBE: 62 09/26/96 12:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585277 MRA1D ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.2100 24.8 -0.002 -0.001 -0.002 5

TUBE: 63 09/26/96 12:47
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585277 MRA1DA ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
8.2500 0.5 0.023 0.023 0.023
%RECOVERY = 82.5

TUBE: 64 09/26/96 12:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585278 MRA2D ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.7100 22.6 0.000 -0.001 -0.000

TUBE: 65 09/26/96 12:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585278 MRA2DA ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
10.0900 1.3 0.027 0.027 0.028
%RECOVERY = 100.9

TUBE: 66 09/26/96 13:01
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 MRA4S ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
35.9500 0.4 0.094 0.094 0.094

TUBE: 67 09/26/96 13:05
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 MRA4SA ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
44.6000 1.4 0.116 0.117 0.115
%RECOVERY = 86.5

150

RUN NAME: 9627001F05
PAGE: 17
ANALYST: 809

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 68 09/26/96 13:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585202 MRA 3 S ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RE RD
89.9100 0.4 0.233 0.232 0.234 ~~SE~~ ~~RD~~
OVER CALIBRATION RANGE

TUBE: 69 09/26/96 13:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585202 MRA 3 S A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
101.9400 0.4 0.264 0.263 0.263

*RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

TUBE: 70 09/26/96 13:18
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 6 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
22.4700 0.5 0.059 0.059 0.060

*RECOVERY = 89.9

TUBE: 71 09/26/96 13:22
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 6 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.3100 170.8 0.001 0.002 0.000

TUBE: 72 09/26/96 13:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585203 ***** 100 100 1 962691056001
V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RE RD
-0.9100 11.4 -0.001 -0.001 -0.001 ~~SE~~ ~~RD~~

TUBE: 73 09/26/96 13:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585203 ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.1700 5.4 0.025 0.024 0.026

*RECOVERY = 91.7

151

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY:

Jms088

DATA VERIFIED BY:

*RDG-114
9/21/90*

DATA FILE NAME: 9627003.RAT
RUN NAME: 9627002F05

INSTRUMENT NO: 04725
OKO CORR: BZ

ANALYST: GG

ELEMENT: SE

Concentration is used to evaluate if sample results are within calibration range.

152

RUN NAME: 9627002F05
PAGE: 1
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SC

TUBE: 1 09/26/96 15:46
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 35.6 -0.001 -0.001 -0.002

TUBE: 2 09/26/96 15:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S5 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 4.6 0.012 0.013 0.012

TUBE: 3 09/26/96 15:54
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
16.1300 0.5 0.039 0.039 0.039

TUBE: 4 09/26/96 15:58
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S25 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.2700 1.1 0.061 0.061 0.061

TUBE: 5 09/26/96 16:02
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
37.3200 1.1 0.092 0.092 0.093

TUBE: 6 09/26/96 16:06
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S50 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
49.2100 1.1 0.116 0.115 0.117

TUBE: 7 09/26/96 16:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.5800 0.3 0.047 0.047 0.047

*RECOVERY = 97.9

158

RUN NAME: 9627002F05
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
QFAA ELEMENT: SE

TUBE: 8 09/26/96 16:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.9800 17.2 0.000 -0.001 -0.000

TUBE: 9 09/26/96 16:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
4.0500 7.5 0.011 0.012 0.011

TUBE: 10 09/26/96 16:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.8500 0.7 0.059 0.050 0.059

%RECOVERY = 99.4

TUBE: 11 09/26/96 16:26
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.2300 17.5 -0.001 -0.001 -0.001

TUBE: 12 09/26/96 16:30
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583825 ZZZZZZ ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.5300 8.2 0.001 0.001 0.001

TUBE: 13 09/26/96 16:35
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583825 ZZZZZZ ***** 100 100 1 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
12.3100 1.7 0.030 0.030 0.030

%RECOVERY = 123.1

RUN NAME: 9627002F05
PAGE: 3
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GTAA ELEMENT: SC

TUBE: 14 09/26/96 16:39
SAMPLE 2583827 ZZZZZZ CLASS ***** IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.7300 58.2 0.000 0.001 -0.000

TUBE: 15 09/26/96 16:43
SAMPLE 2583827 ZZZZZZ CLASS *****A* IVOL/WT 100 EVOL 100 DF 1 BATCH NUMBER 962681056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
13.1800 0.5 0.032 0.032 0.032

XRECOVERY = 131.8

TUBE: 16 09/26/96 16:47
SAMPLE 2585279 MRA25 CLASS ***** IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962691056001

V
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
19.0700 1.5 0.046 0.045 0.046 34

TUBE: 17 09/26/96 16:51
SAMPLE 2585279 MRA25A CLASS *****A* IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.8900 0.0 0.073 0.073 0.073

XRECOVERY = 118.2

TUBE: 18 09/26/96 16:56
SAMPLE 2585279 MRA25 D CLASS ***** IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962691056001

V
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
20.2100 3.9 0.048 0.049 0.047 34

TUBE: 19 09/26/96 17:00
SAMPLE 2585279 MRA25 DA CLASS *****A* IVOL/WT 100 EVOL 100 DF 5 BATCH NUMBER 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
32.4100 6.7 0.076 0.073 0.080

XRECOVERY = 122.0

155

RUN NAME: 9627002F05
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SC

TUBE: 20 09/26/96 17:04
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRA2S S R***** 100 100 5 962691056001

~~U~~
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RE RD
20.1300 2.0 0.048 0.049 0.047 - -

TUBE: 21 09/26/96 17:00
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ R***** 0 0 5

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
31.0400 1.7 0.073 0.072 0.074

%RECOVERY = NOT APPLICABLE

TUBE: 22 09/26/96 17:12
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.7600 2.4 0.059 0.058 0.060

%RECOVERY = 99.0

TUBE: 23 09/26/96 17:16
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.4600 24.1 -0.001 -0.002 -0.001

TUBE: 24 09/26/96 17:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MRA1S ***** 100 100 1 962691056001

~~U~~
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RE RD
1.3700 3.3 0.005 0.005 0.005 - -

TUBE: 25 09/26/96 17:24
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MRA1S A ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.8900 1.9 0.027 0.027 0.026

%RECOVERY = 95.2

RUN NAME: 9627002F05
PAGE: 5
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: GC

TUBE: 26 09/26/96 17:28
SAMPLE CLASS IVOL/WT
2585277 MRA1D ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

X

AVG(ppb) XRPD AVG abs
-1.0100 69.8 0.000

BURN 1 BURN 2 RR RD
-0.002 0.001

TUBE: 27 09/26/96 17:37
SAMPLE CLASS IVOL/WT
2585277 MRA1D A ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

AVG(ppb) XRPD AVG abs
9.1500 3.8 0.023

BURN 1 BURN 2
0.022 0.023

*RECOVERY = 91.5

TUBE: 28 09/26/96 17:36
SAMPLE CLASS IVOL/WT
2585278 MRA2D ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

X

AVG(ppb) XRPD AVG abs
-0.3900 0.8 0.001

BURN 1 BURN 2 RR RD
0.001 0.001

TUBE: 29 09/26/96 17:40
SAMPLE CLASS IVOL/WT
2585278 MRA2D A ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

AVG(ppb) XRPD AVG abs
11.3400 1.6 0.028

BURN 1 BURN 2
0.028 0.028

*RECOVERY = 113.4

TUBE: 30 09/26/96 17:45
SAMPLE CLASS IVOL/WT
2585281 MRA4S ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

U
AVG(ppb) XRPD AVG abs
38.9000 2.2 0.091

BURN 1 BURN 2 RR RD
0.092 0.090

TUBE: 31 09/26/96 17:49
SAMPLE CLASS IVOL/WT
2585281 MRA4S A ***** 100

EVOL DF BATCH NUMBER
100 1 962691056001

AVG(ppb) XRPD AVG abs
50.7700 1.3 0.110

BURN 1 BURN 2
0.110 0.117

*RECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

157

RUN NAME: 9627002F05
PAGE: 6
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
QFAA ELEMENT: SC

TUBE: 32 09/26/96 17:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 MRA35 ***** 100 100 5 962691056001
U AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
22.4300 1.3 0.053 0.053 0.054 BU

TUBE: 33 09/26/96 17:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 MRA35A ***** 100 100 5 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
36.3800 2.0 0.085 0.084 0.086
XRECOVERY = 139.5

TUBE: 34 09/26/96 18:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.1800 1.8 0.057 0.057 0.058
XRECOVERY = 96.7

TUBE: 35 09/26/96 18:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.5800 93.6 0.001 0.001 0.000

TUBE: 36 09/26/96 18:08
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 MRA3D ***** 100 100 1 962691056001
X AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.3300 22.1 -0.001 -0.002 -0.001

TUBE: 37 09/26/96 18:12
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 MRA3DA ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.9400 4.3 0.025 0.024 0.025
XRECOVERY = 99.4

158

RUN NAME: 9627002F05
PAGE: 7
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 38 09/26/96 18:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 MR300 ***** 100 100 1 962691056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.5900 6.2 -0.002 -0.002 -0.002

TUBE: 39 09/26/96 18:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 MR300A ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
9.9000 0.6 0.025 0.024 0.025

XRECOVERY = 99.0

TUBE: 40 09/26/96 18:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585285 MRACB ***** 100 100 1 962691056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.0600 30.9 -0.001 -0.001 -0.000

TUBE: 41 09/26/96 18:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585285 MRACBA ***** 100 100 1 962691056001

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
11.0600 1.3 0.027 0.027 0.027

XRECOVERY = 110.6

TUBE: 42 09/26/96 18:33
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.3900 13.8 -0.001 -0.001 -0.002

TUBE: 43 09/26/96 18:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.9800 4.7 0.027 0.026 0.028

XRECOVERY = 109.8

RUN NAME: 9627002F05
PAGE: 8
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
QFAA ELEMENT: SC

TUBE: 44 09/26/96 18:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
8.2700 3.3 0.021 0.021 0.020 -- --

TUBE: 45 09/26/96 18:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ZZZZZZ ***** 1 1 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.2900 3.2 0.048 0.047 0.049

XRECOVERY = 120.2

TUBE: 46 09/26/96 18:47
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.6700 0.8 0.058 0.059 0.058

XRECOVERY = 98.7

TUBE: 47 09/26/96 18:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCR 4 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.1500 14.9 -0.001 -0.001 -0.001

TUBE: 48 09/26/96 18:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585290 ***** 100 100 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
81.4100 1.9 0.189 0.191 0.186 JS --

OVER CALIBRATION RANGE

TUBE: 49 09/26/96 19:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585290 ***** 100 100 1 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
93.0600 2.0 0.215 0.218 0.212

XRECOVERY = NOT APPLICABLE
OVER CALIBRATION RANGE

160

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Flaughenaupt 858*

DATA VERIFIED BY: *R66114
2/27/96*

DATA FILE NAME: ST77005.RAT
RUN NAME: 9627101F05

INSTRUMENT NO: 04725
GKC CORR: BZ

ANALYST: GA

ELEMENT: SE

161

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 962710IFMS
PAGE: 1
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 047.5
OFDA DOCUMENT: 50

TUBE: 1 09/26/96 22:13
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 53.7 -0.001 -0.001 -0.002

TUBE: 2 09/26/96 22:17
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S5 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 1.2 0.015 0.015 0.015

TUBE: 3 09/26/96 22:21
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
12.6200 1.9 0.037 0.037 0.038

TUBE: 4 09/26/96 22:25
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S25 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.7700 1.9 0.059 0.059 0.060

TUBE: 5 09/26/96 22:29
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
37.6200 1.0 0.090 0.090 0.089

TUBE: 6 09/26/96 22:33
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
S50 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
50.1300 0.2 0.114 0.114 0.114

TUBE: 7 09/26/96 22:37
SAMPLE CLASS: IVOL/WT EVOL DF BATCH NUMBER
ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.0800 0.3 0.045 0.045 0.045

*RECOVERY = 95.4

162

MAN NAME: 0607101F03
PAGE: 7
ANALYST: JGS

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GTAA ELEMENT: SE

TUBE: 8 09/26/96 22:41
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.3800 8.4 -0.001 -0.001 -0.000

TUBE: 9 09/26/96 22:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
3.6300 4.9 0.011 0.011 0.010

TUBE: 10 09/26/96 22:49
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.2600 1.3 0.056 0.056 0.057

*RECOVERY = 97.0

TUBE: 11 09/26/96 22:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.8000 7.5 -0.002 -0.001 -0.002

TUBE: 12 09/26/96 22:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 mRAUS ***** 100 100 2 962691056001
X AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
20.0500 1.1 0.047 0.047 0.047

TUBE: 13 09/26/96 23:01
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585281 mRAUSA ***** 100 100 2 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
29.5600 2.1 0.068 0.067 0.069

*RECOVERY = 95.1

166

RUN NAME: 9627101F05
PAGE: 3
ANALYST: CG

LANCASTER LABORATORIES
INSTRUMENT 10: 04725
OFHA ELEMENT: SC

TUBE: 14 09/26/96 23:06
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
2585290 ZZZZZZ DXXXXX 100 100 5 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
19.4000 1.1 0.046 0.046 0.045

TUBE: 15 09/26/96 23:10
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
2585290 ZZZZZZ DXXXXX 100 100 5 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.5600 3.4 0.070 0.072 0.069

XRECOVERY = 111.6

TUBE: 16 09/26/96 23:14
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
2585290 ZZZZZZ DXXXXX 100 100 5 962691056002

V
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
18.5400 4.8 0.044 0.045 0.042 IDM

TUBE: 17 09/26/96 23:18
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
2585290 ZZZZZZ DXXXXX 100 100 5 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
30.1700 1.3 0.070 0.070 0.069

XRECOVERY = 116.3

TUBE: 18 09/26/96 23:22
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
2585290 ZZZZZZ DXXXXX 100 100 5 962691056002

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
20.5300 0.6 0.048 0.048 0.048

TUBE: 19 09/26/96 23:26
SAMPLE CLASS IVOL/WT EVOL DE BATCH NUMBER
ZZZZZZ RXXXXX 0 0 5

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
32.4000 0.2 0.075 0.074 0.075

XRECOVERY = NOT APPLICABLE

164

UNIT NAME: 9627101F05
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 20 09/26/96 23:31

SAMPLE CLASS IVOL/WT
2585292 ZZZZZZ ***** 100

EVOL DF BATCH NUMBER
100 5 962691056002

V AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
25.0400 1.2 0.058 0.058 0.059 10M

TUBE: 21 09/26/96 23:35

SAMPLE CLASS IVOL/WT
2585292 ZZZZZZ ***** 100

EVOL DF BATCH NUMBER
100 5 962691056002

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
36.5500 0.5 0.084 0.084 0.083

*RECOVERY = 115.1

TUBE: 22 09/26/96 23:37

SAMPLE CLASS IVOL/WT
CCV 2 0 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.8000 0.3 0.055 0.055 0.056

*RECOVERY = 95.2

TUBE: 23 09/26/96 23:43

SAMPLE CLASS IVOL/WT
CCR 2 0 0

EVOL DF BATCH NUMBER
0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-1.3900 2.0 -0.001 -0.001 -0.001

DATA REVIEWED BY:

Flaughenbaugh

DATA VERIFIED BY:

*RDH
9/27/96*

LANCASTER LABORATORIES

GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Glaukenh up 859*

DATA VERIFIED BY: *RDB 114
9/21/86*

DATA FILE NAME: SEP7101.RAT
RUN NAME: 9627102F05

INSTRUMENT NO: 04725
OKC CORR: BZ

ANALYST: 859

ELEMENT: SE

106

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9627102F05
PAGE: 1
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: 05

TUBE: 1 09/27/96 01:12
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 0.0 -0.003 -0.003 0.000

TUBE: 2 09/27/96 01:14
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S5 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 0.0 0.013 0.013 0.000

TUBE: 3 09/27/96 01:16
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S15 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
15.0900 0.0 0.038 0.038 0.000

TUBE: 4 09/27/96 01:18
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S25 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.8800 0.0 0.060 0.060 0.000

TUBE: 5 09/27/96 01:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
37.3700 0.0 0.091 0.091 0.000

TUBE: 6 09/27/96 01:22
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S50 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
49.2900 0.0 0.114 0.114 0.000

TUBE: 7 09/27/96 01:25
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.0100 0.0 0.045 0.045 0.000

%RECOVERY = 95.0

167

RUN NAME: 9627102F05
PAGE: 7
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
OFAA ELEMENT: SC

TUBE: 8 09/27/96 01:27
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
ICB 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.7500 0.0 0.000 0.000 0.000

TUBE: 9 09/27/96 01:29
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
4.5400 0.0 0.012 0.012 0.000

TUBE: 10 09/27/96 01:31
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.6200 0.0 0.057 0.057 0.000

XRECOVERY = 98.5

TUBE: 11 09/27/96 01:33
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.6900 0.0 0.000 0.000 0.000

TUBE: 12 09/27/96 01:35
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583833 ZZZZZZ 0 ***** 100 100 10 962681056002
CONC(ppb) BURN 1
14.3600 0.034

TUBE: 13 09/27/96 01:37
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583833 ZZZZZZ 1 ***** 100 100 10 962681056002
CONC(ppb) BURN 1
19.5000 0.046

TUBE: 14 09/27/96 01:39
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2583833 ZZZZZZ 2 ***** 100 100 10 962681056002
CONC(ppb) BURN 1
23.9800 0.056

108

RUN NAME: 9627102F05
PAGE: 3
ANALYST: 659

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 15 09/27/96 01:41
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2583033 777777 3 ***** 100 100 10 962691056000

X
-
CONC(ppb) BURN 1 X INT = 16.32075 RR RD
28.4000 0.066 CORR COEF = 0.99893
SLOPE = 0.00212
Y INT = 0.03460

TUBE: 16 09/27/96 01:43
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRAAS 0 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
19.9000 0.047

TUBE: 17 09/27/96 01:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRAAS 1 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
24.4200 0.057

TUBE: 18 09/27/96 01:47
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRAAS 2 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
28.6300 0.066

TUBE: 19 09/27/96 01:49
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRAAS 3 ***** 100 100 5 962691056001

X
-
CONC(ppb) BURN 1 X INT = 24.51125 RR RD
32.9600 0.076 CORR COEF = 0.99978
SLOPE = 0.00192
Y INT = 0.04710

TUBE: 20 09/27/96 01:51
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MRAAS D ***** 100 100 5 962691056001

CONC(ppb) BURN 1
28.5300 0.048

100

RUN NAME: 9627102F05
PAGE: 4
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 21 09/27/96 01:53
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 mRAAS D1 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
24.8100 0.058

TUBE: 22 09/27/96 01:55
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 mRAAS D2 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
28.4100 0.066

TUBE: 23 09/27/96 01:57
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 mRAAS D3 ***** 100 100 5 962691056001

X X
CONC(ppb) BURN 1 X INT = 27.10101 RR RD
32.4700 0.075 CORR COEF = 0.99912
SLOPE = 0.00178
Y INT = 0.04840

TUBE: 24 09/27/96 01:59
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585282 mRA35 0 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
24.5500 0.057

TUBE: 25 09/27/96 02:00
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585282 mRA35 1 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
29.2500 0.068

TUBE: 26 09/27/96 02:02
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585282 mRA35 2 ***** 100 100 5 962691056001

CONC(ppb) BURN 1
32.4400 0.075

170

RUN NAME: 9627102F05
PAGE: 5
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
QFAA ELEMENT: 5C

TUBE: 27 09/27/96 02:04
SAMPLE CLASS IVOL/WT
2585202 mRA3S 3 ***** 100

EVOL DF BATCH NUMBER
100 5 962691056001

CONC(ppb) BURN 1
36.5400 0.004

X INT = 32.04091 RR RD
CORR COEF = 0.99640
SLOPE = 0.00176
Y INT = 0.05780

TUBE: 28 09/27/96 02:06
SAMPLE CLASS IVOL/WT
2585290 ZZZZZZ 0 D***** 100

EVOL DF BATCH NUMBER
100 10 962691056002

CONC(ppb) BURN 1
9.0200 0.024

TUBE: 29 09/27/96 02:08
SAMPLE CLASS IVOL/WT
2585290 ZZZZZZ D***** 100

EVOL DF BATCH NUMBER
100 10 962691056002

CONC(ppb) BURN 1
14.8900 0.035

TUBE: 30 09/27/96 02:11
SAMPLE CLASS IVOL/WT
2585290 ZZZZZZ 2 D***** 100

EVOL DF BATCH NUMBER
100 10 962691056002

CONC(ppb) BURN 1
18.5900 0.044

TUBE: 31 09/27/96 02:13
SAMPLE CLASS IVOL/WT
2585290 ZZZZZZ 3 D***** 100

EVOL DF BATCH NUMBER
100 10 962691056002

CONC(ppb) BURN 1
23.1200 0.054

X INT = 12.32303 RR RD
CORR COEF = 0.99929
SLOPE = 0.00198
Y INT = 0.02440

TUBE: 32 09/27/96 02:15
SAMPLE CLASS IVOL/WT
CCV 2 0 0 1

EVOL DF BATCH NUMBER
0 0 1

AVG(ppb) %RPD AVG abs
24.5500 0.0 0.057

BURN 1 BURN 2
0.057 0.000

%RECOVERY = 98.2

171

RUN NAME: 9627102F05
PAGE: 6
ANALYST: 859

LANCASTER LABORATORIES
INSTRUMENT ID: 04725
GFAA ELEMENT: SE

TUBE: 33 09/27/96 02:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 2 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.5100 0.0 0.001 0.001 0.000

TUBE: 34 09/27/96 02:19
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585292 ***** 100 100 10 962691056002
CONC(ppb) BURN 1
13.1800 0.032

TUBE: 35 09/27/96 02:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585292 ***** 100 100 10 962691056002
CONC(ppb) BURN 1
17.4300 0.041

TUBE: 36 09/27/96 02:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585292 ***** 100 100 10 962691056002
CONC(ppb) BURN 1
21.9400 0.051

TUBE: 37 09/27/96 02:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585292 ***** 100 100 10 962691056002
X INT = 10.34021 RR RD
CORR COEF = 0.99968
SLOPE = 0.00194
Y INT = 0.03170

TUBE: 38 09/27/96 02:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 1
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
24.0100 0.0 0.056 0.056 0.000
%RECOVERY = 96.0

173

LANCASTER LABORATORIES
GRAPHITE FURNACE ATOMIC ABSORPTION

DATA REVIEWED BY: *Glaughon hought 859*

DATA VERIFIED BY: *ERT 809*

DATA FILE NAME: 1126913
RUN NAME: 9627001F01

INSTRUMENT NO: 02003
GKC CORR: BD

ANALYST: GA

ELEMENT: TL

176

Concentration is used to evaluate if sample results are within calibration range.

RUN NAME: 9627001F01
PAGE: 1
ANALYST: 66

LANCASTER LABORATORIES
INSTRUMENT ID: 028003
GFAA ELEMENT: TL

TUBE: 1 09/25/96 21:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0000 0.0 -0.004 -0.009 0.000

TUBE: 2 09/25/96 21:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S10 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
10.0000 8.3 0.042 0.045 0.040

TUBE: 3 09/25/96 21:08
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S20 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
20.0000 5.3 0.109 0.113 0.105

TUBE: 4 09/25/96 21:12
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S40 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
40.0000 2.1 0.207 0.204 0.210

TUBE: 5 09/25/96 21:16
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S60 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
60.0000 0.5 0.281 0.282 0.280

TUBE: 6 09/25/96 21:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S80 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
80.0000 1.0 0.364 0.366 0.361

TUBE: 7 09/25/96 21:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICV 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
50.1900 1.9 0.248 0.251 0.244

XRECOVERY = 100.4

174

RUN NAME: 9627001F01
PAGE: 2
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 02603
OFAA ELEMENT: TL

TUBE: 8 09/25/96 21:26
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICK 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.6800 99.9 -0.003 -0.005 -0.001

TUBE: 9 09/25/96 21:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
14.0900 2.7 0.066 0.067 0.064

TUBE: 10 09/25/96 21:33
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ZZZZZZ ***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
32.4000 2.4 0.171 0.168 0.174

TUBE: 11 09/25/96 21:36
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
41.5500 1.1 0.214 0.216 0.212

*RECOVERY = 103.9

TUBE: 12 09/25/96 21:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.2400 99.9 0.001 0.000 0.002

TUBE: 13 09/25/96 21:43
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW PBW ***** 100 100 1 962691056001

X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.8900 11.1 -0.004 -0.004 -0.003

175

RUN NAME: 9627001F01
PAGE: 3
ANALYST: 68

LAUNCHER: LABVIEW
INSTRUMENT ID: 02803
GFAA ELEMENT: TL

TUBE: 14 09/25/96 21:46
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
PBW PBWA ***** 100 100 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
20.2200	2.4	0.110	0.108	0.112

%RECOVERY = 101.1

TUBE: 15 09/25/96 21:50
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
LCSW LCSW ***** 1 1 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
50.9300	3.7	0.250	0.257	0.244	—	—

TUBE: 16 09/25/96 21:53
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
LCSW LCSWA ***** 1 1 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
70.4900	1.4	0.325	0.322	0.328

%RECOVERY = 97.8

TUBE: 17 09/25/96 21:56
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585279 MRA2S ***** 100 100 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-0.3200	93.4	-0.001	-0.002	0.000	—	—

TUBE: 18 09/25/96 22:00
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585279 MRA2S A ***** 100 100 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2
19.6900	12.5	0.107	0.097	0.116

%RECOVERY = 98.4

TUBE: 19 09/25/96 22:03
SAMPLE CLASS: IVOL/WT FVOL DF BATCH NUMBER
2585279 MRA2S D ***** 100 100 1 962691056001

AVG(ppb)	XRPD	AVG abs	BURN 1	BURN 2	RR	RD
-0.5800	99.9	-0.002	0.001	-0.006	—	—

176

RUN NAME: 9627001F01
PAGE: 4
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 02803
CPAA ELEMENT: TL

TUBE: 20 09/25/96 22:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 D***** 100 100 1 962691056001

MRA2S DA

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.1100 5.1 0.102 0.105 0.098

XRECOVERY = 95.6

TUBE: 21 09/25/96 22:10
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 K***** 100 100 1 962691056001

MRA2S S

V X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
45.2300 1.6 0.229 0.226 0.231

TUBE: 22 09/25/96 22:14
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ZZZZZZ R***** 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
65.8500 0.2 0.305 0.306 0.305

XRECOVERY = NOT APPLICABLE

TUBE: 23 09/25/96 22:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.9300 0.2 0.220 0.220 0.219

XRECOVERY = 107.3

TUBE: 24 09/25/96 22:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 2 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
-0.4300 99.9 -0.002 -0.007 0.003

TUBE: 25 09/25/96 22:23
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 P***** 100 100 1 962691056001

MRA1S

V X
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.7200 95.0 0.003 0.001 0.005

17

RUN NAME: 0627001F01
PAGE: 5
ANALYST: 60

LANCASTER LABORATORIES
INSTRUMENT ID: 02803
OFAA ELEMENT: TL

TUBE: 26 09/25/96 22:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585276 ***** 100 100 1 962691056001

MEAS A

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.0900 2.7 0.115 0.113 0.117

*RECOVERY = 105.4

TUBE: 27 09/25/96 22:30
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585277 ***** 100 100 1 962691056001

MEAS D

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-1.3300 47.9 -0.006 -0.004 -0.008

TUBE: 28 09/25/96 22:34
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585277 ***** 100 100 1 962691056001

MEAS A

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.2500 2.8 0.116 0.110 0.113

*RECOVERY = 106.2

TUBE: 29 09/25/96 22:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585278 ***** 100 100 1 962691056001

MEAS D

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4900 99.9 -0.002 0.001 -0.005

TUBE: 30 09/25/96 22:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585278 ***** 100 100 1 962691056001

MEAS D

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.3700 16.1 0.096 0.085 0.107

*RECOVERY = 91.8

TUBE: 31 09/25/96 22:43
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585278 ***** 100 100 1 962691056001

MEAS S

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-3.5800 14.3 -0.015 -0.014 -0.017

⑦ JASST
9/26/96

⑧ Read due
to value being
greater than
178/1001.45
also

RUN NAME: 9627001F01
PAGE: 6
ANALYST: 68

LANCASTER LABORATORIES
INSTRUMENT ID: 02803
QFAA ELEMENT: TL

TUBE: 32 09/25/96 22:47
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585281 ***** 100 100 1 962691056001

M2A45 A

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.4300 2.4 0.104 0.103 0.106

*RECOVERY = 97.2

TUBE: 33 09/25/96 22:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 ***** 100 100 1 962691056001

M2A35

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.1400 32.4 0.001 0.001 0.000

TUBE: 34 09/25/96 22:51
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 ***** 100 100 1 962691056001

M2A35 A

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
21.8800 4.2 0.119 0.123 0.115

*RECOVERY = 109.4

TUBE: 35 09/25/96 22:57
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
42.6900 4.4 0.219 0.212 0.225

*RECOVERY = 106.7

TUBE: 36 09/25/96 23:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 0 0 1

AVG(ppb) XRPD AVG abs BURN 1 BURN 2
0.0500 99.9 0.000 -0.002 0.003

TUBE: 37 09/25/96 23:03
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 ***** 100 100 1 962691056001

M2A30

AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.3600 14.4 0.002 0.002 0.001

170

RUN NAME: 7627001F01
PAGE: 7
ANALYST: 60

LANCASTER LABORATORIES
INSTRUMENT ID: 02803
GFRA ELEMENT: TL

TUBE: 38 09/25/96 23:07
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 MRA30A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
19.3100 6.9 0.103 0.100 0.098
XRECOVERY = 96.6

TUBE: 39 09/25/96 23:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 M2300 ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
-0.4200 99.9 -0.002 0.001 -0.004

TUBE: 40 09/25/96 23:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 M2300 A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
18.8400 2.0 0.100 0.090 0.101
XRECOVERY = 94.2

TUBE: 41 09/25/96 23:17
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 MRAFB ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.0800 64.1 0.000 0.000 0.001

TUBE: 42 09/25/96 23:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585285 MRAFB A ***** 100 100 1 962691056001
AVG(ppb) XRPD AVG abs BURN 1 BURN 2
23.8300 2.2 0.129 0.127 0.131
XRECOVERY = 119.2

TUBE: 43 09/25/96 23:24
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ZZZZZZ ***** 100 100 1 962691056002
AVG(ppb) XRPD AVG abs BURN 1 BURN 2 RR RD
0.6400 99.9 0.003 0.005 0.000

Bart

180

RUN NAME: 9627001F01

PAGE: 8

ANALYST: 68

LANCASTER LABORATORIES

INSTRUMENT ID: 02803

GFAA ELEMENT: TI

TUBE: 44 09/25/96 23:27
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 PRW ZZZZZZ ***** 100 100 1 962691056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
 23.5400 1.4 0.127 0.129 0.126

*RECOVERY = 117.7

TUBE: 45 09/25/96 23:31
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 LCSW ZZZZZZ ***** 1 1 1 962691056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
 55.2100 2.6 0.265 0.270 0.260

TUBE: 46 09/25/96 23:34
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 LCSW ZZZZZZ ***** 1 1 1 962691056002

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
 70.9400 4.2 0.327 0.317 0.336

*RECOVERY = 78.6

TUBE: 47 09/25/96 23:38
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 CCV 4 ZZZZZZ ***** 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
 42.3100 3.8 0.217 0.223 0.211

*RECOVERY = 105.8

TUBE: 48 09/25/96 23:41
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 CCB 4 ZZZZZZ ***** 0 0 1

AVG(ppb) %RPD AVG abs BURN 1 BURN 2
 0.5300 99.9 0.002 0.004 0.001

TUBE: 49 09/25/96 23:44
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2585200 ***** 100 100 1 962691056002

V AVG(ppb) %RPD AVG abs BURN 1 BURN 2 RR RD
 0.8600 59.6 0.004 0.002 0.005

Bout

Bout

181

Mercury Data

LANCASTER LABORATORIES

MERCURY ANALYZER

DATA REVIEWED BY: NSM823 9/25/96

DATA VERIFIED BY:  383

DATA FILE NAME: 9626903.FRN
RUN NAME: 9626903M03

INSTRUMENT NO: 05220

ANALYST: 823

ELEMENT: HG

RUN NAME: 0626903H03

PAGE: 1

ANALYST: 823

CANALASER 1000000000
INSTRUMENT 10: 00220
CV ELEMENT: HG

TUBE: 1	09/25/96 17:14					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S0	*****	0	0	1		

AVG(ppb)	Intensity
0.0000	773.0

TUBE: 2	09/25/96 17:16					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S0.2	*****	0	0	1		

AVG(ppb)	Intensity
0.2000	20180.0

TUBE: 3	09/25/96 17:18					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S0.5	*****	0	0	1		

AVG(ppb)	Intensity
0.5000	54192.0

TUBE: 4	09/25/96 17:21					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S1.0	*****	0	0	1		

AVG(ppb)	Intensity
1.0000	103361.0

TUBE: 5	09/25/96 17:23					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S2.5	*****	0	0	1		

AVG(ppb)	Intensity
2.5000	249425.0

TUBE: 6	09/25/96 17:26					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
S5.0	*****	0	0	1		

AVG(ppb)	Intensity
5.0000	498290.0

Correlation Coefficient = 0.99996

TUBE: 7	09/25/96 17:28					
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
ICV	*****	0	0	1		

AVG(ppb)	Intensity
2.0400	204247.0

%RECOVERY = 102.0

184

RUN NAME: 9626903M03
PAGE: 7
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 80820
CV ELEMENT: HG

TUBE: 8 09/25/96 17:31
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICR ***** 0 0 1

AVG(ppb) Intensity
-0.0170 539.0

TUBE: 9 09/25/96 17:35
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA ***** 0 0 1

AVG(ppb) Intensity
0.1900 21052.0

TUBE: 10 09/25/96 17:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 ***** 0 0 1

AVG(ppb) Intensity
1.0400 105717.0

*RECOVERY = 104.0

TUBE: 11 09/25/96 17:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 ***** 0 0 1

AVG(ppb) Intensity
-0.0200 229.0

TUBE: 12 09/25/96 17:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ***** 0 0 1 962680821001

777777

✓
AVG(ppb) Intensity
0.0100 3216.0

RR RD

TUBE: 13 09/25/96 17:42
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962680821001

ZZZZZZ

✓
AVG(ppb) Intensity
0.0020 81022.0

RR RD

TUBE: 14 09/25/96 17:43
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2503205 ***** 0 0 1 962680821001

ZZZZZZ

✓
AVG(ppb) Intensity
-0.0020 2008.0

RR RD

185

RUN NAME: 0626003M03

PAGE: 3

ANALYST: 823

LABORATORY: 0000000000

INSTRUMENT ID: 85000

CV ELEMENT: 10

TUBE: 15 09/25/96 17:47
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583206 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 0.0060 2767.0

TUBE: 16 09/25/96 17:40
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583207 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 0.0110 3243.0

TUBE: 17 09/25/96 17:51
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583208 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 0.0050 2670.0

TUBE: 18 09/25/96 17:54
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583209 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 0.0030 2494.0

TUBE: 19 09/25/96 17:56
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583209 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 0.0040 2631.0

TUBE: 20 09/25/96 17:53
 SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
 2583209 ***** 8 8 1 962680821001

ZZZZZZ

✓
 AVG(ppb) Intensity RR RD
 1.0900 110152.0

186

RUN NAME: 9626903M03
PAGE: 4
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 00220
CV ELEMENT: AG

TUBE: 21 09/25/96 18:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583210 ***** 8 8 1 962680821001
777777

✓ AVG(ppb) Intensity RR RD
0.0170 3888.0

TUBE: 22 09/25/96 18:03
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 2 ***** 0 0 1

AVG(ppb) Intensity
1.0500 106189.0

*RECOVERY = 105.0

TUBE: 23 09/25/96 18:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 2 ***** 0 0 1

AVG(ppb) Intensity
-0.0280 -616.0

TUBE: 24 09/25/96 18:07
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583823 ***** 8 8 1 962680821001
ZZZZZZ

✓ AVG(ppb) Intensity RR RD
0.0090 3888.0

TUBE: 25 09/25/96 18:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583824 ZZZZZZ ***** 8 8 1 962680821001

✓ AVG(ppb) Intensity RR RD
0.0010 2252.0

TUBE: 26 09/25/96 18:12
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583825 ZZZZZZ ***** 8 8 1 962680821001

✓ AVG(ppb) Intensity RR RD
0.0010 2283.0

TUBE: 27 09/25/96 18:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583826 ZZZZZZ ***** 8 8 1 962680821001

✓ AVG(ppb) Intensity RR RD
-0.0010 2079.0

287

RUN NAME: 9626903M03
PAGE: 5
ANALYST: 823

LABORATORY: CHS/CHS/CHS/CHS
INSTRUMENT ID: 80820
CV ELEMENT: HG

TUBE: 28 09/25/96 18:16
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583827 ***** 8 8 1 962680821001

ZZZZZZ

✓
✓
AVG(ppb) Intensity RR RD
0.0030 2486.0

TUBE: 29 09/25/96 18:18
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PRW ***** 8 8 1 962680821002

ZZZZ

✓
✓
AVG(ppb) Intensity RR RD
0.0000 2237.0

TUBE: 30 09/25/96 18:21
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ***** 1 1 1 962680821002

ZZZZ

✓
✓
AVG(ppb) Intensity RR RD
1.0700 108785.0

TUBE: 31 09/25/96 18:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583222 ***** 8 8 1 962680821002

ZZZZZZ

✓
✓
AVG(ppb) Intensity RR RD
0.0030 2489.0

TUBE: 32 09/25/96 18:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583223 ***** 8 8 1 962680821002

ZZZZZZ

✓
✓
AVG(ppb) Intensity RR RD
0.0010 2244.0

TUBE: 33 09/25/96 18:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583224 ***** 8 8 1 962680821002

ZZZZZZ

✓
✓
AVG(ppb) Intensity RR RD
0.0070 2908.0

188

RUN NAME: 9626903M03

PAGE: 6

ANALYST: 823

LABORATORY: CHROMATOLAB
INSTRUMENT ID: 85200
CV ELEMENT: 40

TUBE: 34 09/25/96 18:30
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 ***** 0 0 1

AVG(ppb) Intensity
0.9660 98044.0

XRECOVERY = 96.6

TUBE: 35 09/25/96 18:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 3 ***** 0 0 1

AVG(ppb) Intensity
-0.0310 -870.0

TUBE: 36 09/25/96 18:34
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583225 ZZZZZZ ***** 0 0 1 962680821002

✓
✓
AVG(ppb) Intensity
0.0470 6853.0

RR RD

TUBE: 37 09/25/96 18:37
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583226 ZZZZZZ ***** 0 0 1 962680821002

✓
✓
AVG(ppb) Intensity
-0.0010 2096.0

RR RD

TUBE: 38 09/25/96 18:39
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583226 ZZZZZZ ***** 0 0 1 962680821002

✓
✓
AVG(ppb) Intensity
0.0030 2487.0

RR RD

TUBE: 39 09/25/96 18:41
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583226 ZZZZZZ ***** 0 0 1 962680821002

✓
✓
AVG(ppb) Intensity
1.0600 107281.0

RR RD

TUBE: 40 09/25/96 18:44
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2583227 ZZZZZZ ***** 0 0 1 962680821002

✓
✓
AVG(ppb) Intensity
-0.0010 2128.0

RR RD

180

RUN NAME: 9626903M03

PAGE: 7

ANALYST: 823

LABORATORY: CHROMATON

INSTRUMENT ID: 05226

CV ELEMENT: NO

TUBE:	09/25/96	10:46				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2583830	*****	8	8	1	962680821002	ZZZZZZ

	AVG(ppb)	Intensity	RR	RD
✓	0.0070	2898.0	—	—

TUBE:	09/25/96	10:40				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2583831	*****	8	8	1	962680821002	ZZZZZZ

	AVG(ppb)	Intensity	RR	RD
✓	0.0070	2851.0	—	—

TUBE:	09/25/96	10:50				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2583832	*****	8	8	1	962680821002	ZZZZZZ

	AVG(ppb)	Intensity	RR	RD
✓	0.0030	2466.0	—	—

TUBE:	09/25/96	10:53				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2583833	*****	8	8	1	962680821002	ZZZZZZ

	AVG(ppb)	Intensity	RR	RD
✓	0.0060	2826.0	—	—

TUBE:	09/25/96	10:53				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2583834	*****	8	8	1	962680821002	ZZZZZZ

	AVG(ppb)	Intensity	RR	RD
✓	0.0030	2469.0	—	—

TUBE:	09/25/96	10:57				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
CCV 4	*****	8	8	1		

	AVG(ppb)	Intensity
	1.0300	104910.0

*RECOVERY = 103.0

TUBE:	09/25/96	10:59				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
CCB 4	*****	8	8	1		

	AVG(ppb)	Intensity
	-0.0290	-682.0

190

RUN NAME: 9626903M03
PAGE: 6
ANALYST: 023

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: 10

TUBE: 48 09/25/96 19:02
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PBW PBW ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0080 2989.0

TUBE: 49 09/25/96 19:04
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW LCSW ***** 1 1 1 962680821003

✓
AVG(ppb) Intensity RR RD
1.0500 106876.0

TUBE: 50 09/25/96 19:06
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585276 MEAS ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0000 2145.0

TUBE: 51 09/25/96 19:07
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585277 MEAS ID ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0020 2396.0

TUBE: 52 09/25/96 19:11
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585278 MEAS 20 ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0070 2840.0

TUBE: 53 09/25/96 19:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2585279 MEAS 25 ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0070 2889.0

RUN NAME: 9626003M03
PAGE: 9
ANALYST: 023

CHROMAT. LENGTH: 100
INSTRUMENT ID: 00220
CV ELEMENT: HG

TUBE: 54 09/25/96 19:15
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585279 ***** 8 8 1 962600821003
mRA25 D

✓
AVG(ppb) Intensity RR RD
0.0140 3604.0

TUBE: 55 09/25/96 19:16
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585279 ***** 8 8 1 962600821003
mRA25 S

✓
AVG(ppb) Intensity RR RD
1.1100 112402.0

TUBE: 56 09/25/96 19:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585281 ***** 8 8 1 962600821003
mRA25

✓
AVG(ppb) Intensity RR RD
0.0020 2364.0

TUBE: 57 09/25/96 19:22
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585282 ***** 8 8 1 962600821003
mRA25

✓
AVG(ppb) Intensity RR RD
0.0010 2318.0

TUBE: 58 09/25/96 19:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 5 ***** 0 0 1

AVG(ppb) Intensity
1.0300 103994.0

*RECOVERY = 103.0

TUBE: 59 09/25/96 19:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCR 5 ***** 0 0 1

AVG(ppb) Intensity
-0.0290 -662.0

TUBE: 60 09/25/96 19:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585283 ***** 8 8 1 962600821003
mRA25 D

✓
AVG(ppb) Intensity RR RD
0.0060 2738.0

RUN NAME: 9626903M03
PAGE: 10
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 00220
CV ELEMENT: HG

TUBE: 61 09/25/96 19:32
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585284 MR300 ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0110 3288.0

TUBE: 62 09/25/96 19:34
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2585285 MRAFB ***** 8 8 1 962680821003

✓
AVG(ppb) Intensity RR RD
0.0050 2701.0

TUBE: 63 09/25/96 19:36
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 6 ***** 8 8 1

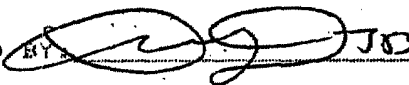
AVG(ppb) Intensity
1.0200 103422.0

%RECOVERY = 102.0

TUBE: 64 09/25/96 19:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 6 ***** 8 8 1

AVG(ppb) Intensity
-0.0310 -840.0

DATA REVIEWED BY: NSM823 9/25/96

DATA VERIFIED BY:  JSB

Extraction/Distillation/Digestion Logs

Water Digestion Logbook
ICP-20

Batch # 262169 5721 ND1

	Sample #	T	Initial Vol (mL)	Final Vol (mL)	EPA #	SDG #	Date	Init
1	25552767	71	100	100	MRAS	FMD 03	9-25-94	4/5
2	5277				MRAD			
3	5278				MRAD			
4	5279				MRAS			
5	5281				MRAS			
6	5282				MRAS			
7	5283				MRAS			
8	5284				MRAS			
9	5285				MRAS			
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Dup	2555279	71	100	100	MRAS	FMD 03	9-25-94	4/5
Spike	5249							
Blank	BLANK							

Sample #	Spike Information					
OC 2555279	Soln ID	1	2	11	12	13
	Lot #	234	249	267	149	115
	Vol. Added (mL)	2mL				
LCS	Soln ID	1	2	3	4	5
	Lot #	234	249	239	234	232
	Vol. Added (mL)	2mL				

Digest Type 5721 Top COC (Y/N)

	Before		After		Stand
	Color	Clarity	Color	Clarity	
1	CL	CR	CL	CR	10L, CLP
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Dup	CL	CR	CL	CR	CLP, CLP
Spike					
Blank					

Reagent	1:1 HNO ₃
Lot #	092

Batch # 5102168 110560 1011

Digest Type 1250-6F CDC (V/N) Y

Sample #	T	Initial Vol (ml)	Final Vol (ml)	EPA #	SDG #	Date	Init
1	2505216	100	100		Final 100	9-25-96	925
2	5217						
3	5218						
4	5219						
5	5251						
6	5252						
7	5253						
8	5254						
9	5255						
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
Dup	2505216	100	100		Final 100	9-25-96	925
Spike	5219						
Blank							

Spike Information				
Sample #	Soln ID	Lot #	Vol. Added (ml)	Vol. Added (ml)
QC 2505216	8	2505216	100	100
LCS				

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Before		After		Notes
Color	Clarity	Color	Clarity	
1				5205216 10/15
2				5205216 10/15
3				5205216 10/15
4				5205216 10/15
5				5205216 10/15
6				5205216 10/15
7				5205216 10/15
8				5205216 10/15
9				5205216 10/15
10				5205216 10/15
11				5205216 10/15
12				5205216 10/15
13				5205216 10/15
14				5205216 10/15
15				5205216 10/15
16				5205216 10/15
17				5205216 10/15
18				5205216 10/15
19				5205216 10/15
20				5205216 10/15
Dup				5205216 10/15
Spike				5205216 10/15
Blank				5205216 10/15

Reagent	1:1 HNO ₃	30% H ₂ O ₂	Date	Init
Lot #	097	5240 KJN	9-25-96	428

Page 84

Batch # 96268 0821 003

Digest Type Mercury CIP4 COC (Y/N)

	Sample #	T	Initial Vol (ml)	Final Vol (ml)	DF	EPA #	SDG #	Date	Init
1	2585276		8	8		MRA 1S	FMDO3	9/24/96	NSM 823
2	5277					MRA 1D			
3	5278					MRA 2D			
4	52794					MRA 2S			
5	5281					MRA 4S			
6	5282					MRA 3S			
7	5283					MRA 3D			
8	5284					MRA 3DD			
9	5285					MRA FB			
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Dup	2585279 D		8	8		MRA 2SD	FMDO3	9/24/96	NSM 823
Spike	52792					S			
Blank	BLANK								

	Before		After		
	Color	Clarity	Color	Clarity	
1					Leeman L
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					Leeman
Dup					
Spike					
Blank					

Sample Number	Spike Information			Date	Init
LCS	Soln ID	1 ppm Hg		9/24/96	NSM 823
	Lot #	268 CONT			
	Vol. Added (ml)	0.1 ml - 2100			
2585279R	Soln ID	0.1 ppm Hg		↓	↓
	Lot #	268 CONT			
	Vol. Added (ml)	0.1 ml - 2100			

Notes

Chain-of-Custody Record



第214

No. 19617

Facility Name DUPONT FORT MADISON		Telephone Number (319) 372-4500		Transporter Name FEDERAL EXPRESS		Project Number 2585287-95		JEM	
Facility Address 801 35th STREET FORT MADISON, IA 52627		Facility Supervisor RAY KROGMEIER		Transporter Address		Telephone Number ()			
Process Producing Sample GM MONITORING-1996 ANNUAL		Special Shipping Instructions PACK IN NET ICE TO LANCASTER LABS		Method of Shipping OVERNIGHT AIR					
Employee(s) Sampling		Remarks *REPORT BY CURRENT CLP STANDARDS. PLEASE FURNISH INTERNAL CHAINS* **TOIMEI & DISMET=TAL LIST**							
Other Employee(s) Handling									
Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Analysis Req. No.	Preservative	T C O L V O A	T C O L V O A
FMN-MRA-1S	9/19/96	9:35A	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-1S	9/20/96	9:35A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-1S-DIS	9/20/96	9:35A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-1D	9/19/96	11:50A	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-1D	9/19/96	11:50A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-1D-DIS	9/19/96	11:50A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2D	9/20/96	10:30A	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-2D	9/20/96	10:30A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2D-DIS	9/20/96	10:30A	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2S	9/19/96	3:20P	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-2S	9/19/96	3:20P	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2S-DIS	9/19/96	3:20P	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2S-MS	9/19/96	3:20P	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-2S-MS	9/19/96	3:20P	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2S-MS-DIS	9/19/96	3:20P	WATER-G	40 ML	AG/S	3	HCL	X	
FMN-MRA-2S-MSD	9/19/96	3:20P	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-2S-MSD-DIS	9/19/96	3:20P	WATER-G	500 ML	DTP	2	HNO3	X	
FMN-MRA-TBLK-3	9/11/96	1055	WATER	40 ML	AG/S	3	HCL	X	
Bottles Relinquished by A. Casagrande		Date/Time 9/11/96 1330	Bottles Received by Ray Krognmeier		Date/Time 9/12/96 10:30A	Condition of Samples Upon Arrival at Final Destination JEM			
Relinquished by Ray Krognmeier		Date/Time 9/20/96 4:45P	Received by		Date/Time	Signature JEM		Date 9/21/96	
Relinquished by		Date/Time	Received by		Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)			
Relinquished by		Date/Time	Received by		Date/Time	Signature 190		Date 9/21/96	
Relinquished by		Date/Time	Received by		Date/Time	Signature 190		Date 9/21/96	

16-01787 X2, 10-31

LAB FILE COPY

No. 19618

Environmental Sample Chain of Custody and Log

7032

122 #

No. 19618

[illegible]

**Sample Administration
Receipt Documentation Log**

7032

2585276-86

2585287-95

Client/Project: CONOCO COC Seal: Present / Not Present on cooler
Date of Receipt: 9/21/96 Broken / Intact
Time of Receipt: 1030 Package: Chilled / Not Chilled
Source Code: 80-1 Unpacker Emp. No.: 205

Temperature of Samples	
#1	#2
Thermometer ID: <u>10103</u>	Thermometer ID: _____
Corrected Temp.: <u>21°</u>	Corrected Temp.: _____
Bottle / <u>Air</u>	Bottle / Air
<u>Wet Ice</u> / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? <u>Y</u> / N	Ice Present? Y / N
#3	#4
Thermometer ID: _____	Thermometer ID: _____
Corrected Temp.: _____	Corrected Temp.: _____
Bottle / Air	Bottle / Air
Wet Ice / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? Y / N	Ice Present? Y / N

Paperwork Discrepancy/Unpacking Problems: _____

Sample Administration Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>M. E.</u>	<u>9/21/96</u>	<u>1109</u>	Unpacking
<u>S. Wyand</u>	<u>9-21-96</u>	<u>1200</u>	Place in Storage or <u>Entry</u>
			Remove from Storage
			Place in Storage or Entry
			Entry <u>20</u>

**Sample Administration
Receipt Documentation Log**

7032
2585276-86
2585287-95

Client/Project: CONOCO COC Seal: Present / Not Present on cooler
Date of Receipt: 9/21/96 Broken / Intact
Time of Receipt: 1030 Package: Chilled / Not Chilled
Source Code: 80-1 Unpacker Emp. No.: 205

Temperature of Samples	
#1	#2
Thermometer ID: <u>10105</u>	Thermometer ID: _____
Corrected Temp.: <u>1.9°</u>	Corrected Temp.: _____
Bottle / <u>Air</u>	Bottle / Air
<u>Wet Ice</u> / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? <u>Y</u> / N	Ice Present? Y / N
#3	#4
Thermometer ID: _____	Thermometer ID: _____
Corrected Temp.: _____	Corrected Temp.: _____
Bottle / Air	Bottle / Air
Wet Ice / Dry Ice / Ice Packs	Wet Ice / Dry Ice / Ice Packs
Ice Present? Y / N	Ice Present? Y / N

Paperwork Discrepancy/Unpacking Problems: _____

Sample Administration Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>M R</u>	<u>9/21/96</u>	<u>1109</u>	Unpacking
<u>S Wyand</u>	<u>9-21-96</u>	<u>1200</u>	Place in Storage or <u>Entry</u>
			Remove from Storage
			Place in Storage or Entry
			Entry

205



Locked Storage Chain of Custody Metals

Sample #: 25852416-49, 81-85 SDG: FIND 4.3

Digest Type (circle one): Hg Metals GF Hydrides Trial No: _____ (If not 1, fill in)

Batch No:

9	6	2	6	9
---	---	---	---	---

5	4	2	0
---	---	---	---

0	0	1
---	---	---

[illegible]

**Locked Storage Chain of Custody
Metals**

Client/Project: DECS - Dupont Fuel Modulator

Sample #: 2585276-79, 81-85 SDG: FM103

Digest Type (circle one): Hg Metals (GF) Hydrides Trial No: _____ (If not 1, fill in)

Batch No:

96269

1056

001

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
2585276-79, 81-85	T 428 Lancaster	Storage	9-25-96	13:45	metals / storage
2585276-79, 81-85	AA Storage	EMR 809	9/25/96	1500	Analysis S
2585276-79, 81-85	EMR 809	AA Storage	9/25/96	1510	Storage AA
2585276-79, 81-85	AA Storage	J. Achilas	9-25-96	15:15	Analysis As
2585276-79, 81-85	J. Achilas	AA Storage	9-25-96	15:20	Storage A1
2585276-79, 81-85	AA Storage	J. Achilas	9-25-96	16:00	Analysis Pb
2585276-79, 81-85	J. Achilas	AA Storage	9-25-96	16:10	Storage A1
2585276-79, 81-85	AA Storage	J. Achilas	9-25-96	18:40	Analysis Ti
2585276-79, 81-85	J. Achilas	AA Storage	9-25-96	18:45	Storage A1
2585276-78, 81-85	AA Storage	Stangorhough 859	9/25/96	2300	Analysis As
2585276-78, 81-85	Stangorhough 859	AA Storage	9/25/96	2305	Storage AA
2585281, 93-95	AA Storage	Stangorhough 859	9/25/96	2320	Analysis Pb
2585281, 93-95	Stangorhough 859	AA Storage	9/25/96	2325	Storage AA
2585276-78, 81-85	AA Storage	Stangorhough 859	9/26/96	0140	Analysis As
2585276-78, 81-85	Stangorhough 859	AA Storage	9/26/96	0415	Storage AA

**Locked Storage Chain of Custody
Metals**

Client/Project: DEPS - DuPont Fort Madison

Sample #: 258 5276-79, 81-85

SDG: FMD03

Digest Type (circle one): Hg Metals GF Hydrides

Trial No: 9 (If not 1, fill in)

Batch No:

9 6 2 6 9

1 0 5 6

0 0 1

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody
2585276	AA Storage	Stacy L. Houghton	9/26/96	0440	Analysis Pb
2585276	Stacy L. Houghton	AA Storage	9/26/96	0445	Storage AA
258 5276-79 81-85	AA Storage	East P. 804	9/26/96	0850	Analysis Se
258 5276-79 81-85	East P. 804	AA Storage	9/26/96	0905	Storage AA
2585276-79, 81-85	AA Storage	J. Schiller	9-26-96	15:25	Analysis Se
2585276-79; 81-85	J. Schiller	AA Storage	9-26-96	15:30	Storage AA
2585281	AA Storage	J. Schiller	9-26-96	22:05	Analysis Se
2585281	J. Schiller	AA Storage	9-26-96	22:10	Storage AA
2585279, 82	AA Storage	Stacy L. Houghton	9/27/96	0155	Analysis Se
2585279, 82	Stacy L. Houghton	AA Storage	9/27/96	0110	Storage AA

208



Client/Project: ERS - Du Pont Fort. Madison

Sample #: 2585276-79, 2585281-85 SDG: FMDR3

Digest Type (circle one): (Hg) Metals GF Hydrides Trial No: _____ (If not 1, fill in)

9	6	0	6	8
---	---	---	---	---

0	8	2	1
---	---	---	---

0	0	3
---	---	---

[illegible]