

108128

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: LANCASTER LABORATORIES _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: AES01

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
JC202	07/04/96		8
JC205	07/04/96		8
JC209	07/04/96		8
JC210	07/04/96		8
JC211	07/04/96		8
JC212	07/04/96		8
JC302	07/04/96		8
JC309	07/04/96		8
JC406	07/04/96		8
JCFBA	07/04/96		8
JCFBB	07/04/96		8
JCR02	07/04/96		8
JCTRI	07/04/96		8
LCSW	07/04/96		8
PBW	07/04/96		8

ANALYSIS RUN LOG

Lab Name: LANCASTER LABORATORIES

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: AES01

Instrument ID Number: 05936

Method: P

Start Date: 07/15/96

End Date: 07/15/96

EPA Sample No.	D/F	Time	% R	Analytes															
				A L	S B	A S	B E	C D	C R	C U	P B	M N	H G	N I	S E	A G	T L	Z N	
S0	1.00	1718		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
S	1.00	1723		X															
S	1.00	1727				X	X	X	X	X	X	X	X	X	X	X	X		
S	1.00	1731			X														
ICV	1.00	1734		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICB	1.00	1739		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CRI	1.00	1744			X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSA	1.00	1749		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
IC SAB	1.00	1754		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV	1.00	1759		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	1.00	1804		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
PBW	1.00	1809		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCSW	1.00	1813		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-204	1.00	1818		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-204A	1.00	1823																	
W-204D	1.00	1828		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-204S	1.00	1833		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-204L	5.00	1838		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-203	1.00	1843		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-303	1.00	1848		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-200	1.00	1853		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV	1.00	1858		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB	1.00	1903		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-400	1.00	1908		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W201S	1.00	1913		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
W-201	1.00	1918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
JCFBA	1.00	1923		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
JC302	1.00	1928		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
JC202	1.00	1933		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
JC205	1.00	1937		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CRI	1.00	1942			X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSA	1.00	1947		X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Raw Data

ICP Data

AR305152

Lancaster Laboratories

Data Reviewed By:

MSOZ 7-15-96

Data Verified By:

G. Jolliffe 7-16-96

Data File Name: 19705T62.DAT

Analyst: 58

Run Name: 9619705T62

Instrument Parameters:

Rinse Time: 60 sec
 Individual Integration Time: 10 sec
 Total Integration Time: 30 sec

Element Symbol	Element Name	Wavelength(nm)
Ag	Silver	328.06
Al	Aluminum	308.21
As	Arsenic	189.04
B	Boron	249.67
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	271.44
K	Potassium	766.49
Mg	Magnesium	279.07
Mn	Manganese	257.61
Mo	Molybdenum	202.03
Na	Sodium	330.23
Ni	Nickel	231.60
Pb	Lead	220.35/1
Pb	Lead	220.35/2
Sb	Antimony	206.83/1
Se	Selenium	196.02/2
Se	Selenium	196.02/1
Sn	Tin	189.98
Sr	Strontium	421.55
Ti	Titanium	334.94
Tl	Thallium	190.86
V	Vanadium	292.40
Y	Yttrium	371.03
Zn	Zinc	206.20

AR305153

The 61E TRACE ICP uses a Crawford-Kunselman Noise Reduction Technique for lead and selenium. This requires the utilization of the first and second order wavelengths in the calculation of each of these metals determinations. The 61E TRACE ICP also utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

determination. The 9000 model for 9125 utilizes a 100% standard to compensate for fluctuations in nebulization and plasma conditions. All lithium readings are expressed in counts.

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LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 1 30

07/15/96

17:18

ELEM	CONC (ppm)	AVG		INTEGRATIONS		
		INTENSITY RATIO	%RSD	#1	#2	#3
__Ag	0.000	-0.00246	12.05	-0.00276	-0.00216	-0.00246
__Al	0.000	0.08345	0.888	0.08321	0.08286	0.08428
__As	0.000	0.00047	207.0	0.00054	-0.00054	0.00143
__B	0.000	0.00082	6.993	0.00078	0.00078	0.00088
__Ba	0.000	0.00119	12.50	0.00103	0.00133	0.00123
__Be	0.000	-0.11162	0.122	-0.11157	-0.11178	-0.11152
__Ca	0.000	-0.00471	2.251	-0.00468	-0.00463	-0.00483
__Cd	0.000	0.00368	53.66	0.00572	0.00354	0.00177
__Co	0.000	-0.00123	20.69	-0.00108	-0.00152	-0.00108
__Cr	0.000	0.00142	10.26	0.00143	0.00157	0.00128
__Cu	0.000	-0.04385	0.140	-0.04384	-0.04379	-0.04392
__Fe	0.000	-0.00223	33.74	-0.00157	-0.00206	-0.00305
__K	0.000	0.01004	11.99	0.01045	0.01098	0.00868
__Mg	0.000	0.00141	15.64	0.00143	0.00162	0.00118
__Mn	0.000	0.01048	8.257	0.00961	0.01049	0.0113
__Mo	0.000	-0.00471	24.05	-0.00582	-0.00477	-0.0035
__Na	0.000	0.00271	1.877	0.00276	0.00266	0.00271
__Ni	0.000	0.00313	18.77	0.00379	0.00266	0.00296
__Pb	0.000	0.00867	34.39	0.01040	0.01039	0.00523
__Sb	0.000	0.00486	41.99	0.00281	0.00689	0.00488
__Se	0.000	-0.04612	8.918	-0.04330	-0.05084	-0.04421
__Sn	0.000	-0.00761	13.91	-0.00882	-0.00709	-0.00690
__Sr	0.000	0.00239	21.00	0.00197	0.00295	0.00227
__Ti	0.000	-0.01492	3.173	-0.01469	-0.01546	-0.01460
__Tl	0.000	-0.00223	34.65	-0.00310	-0.00162	-0.00197
__V	0.000	0.00113	24.25	0.00088	0.00108	0.00143
__Y	N/A	20278.66601	0.086	20274.00000	20298.00000	20264.00000
__Zn	0.000	0.00029	60.11	0.00009	0.00034	0.00044

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LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 2 S1 S

07/15/96

17:23

ELEM	CONC (ppm)	AVG INTENSITY RATIO	%RSD	INTEGRATIONS		
				#1	#2	#3
Al	50.000	5.61672	0.255	5.60041	5.62747	5.62227
Ca	50.000	5.82935	0.159	5.82507	5.82299	5.83999
Fe	50.000	6.99742	0.214	6.98016	7.00442	7.00767
K	50.000	7.16987	0.072	7.17068	7.17461	7.16432
Mg	50.000	7.07441	0.270	7.05321	7.09040	7.07962
Na	50.000	1.00479	0.144	1.00409	1.00646	1.00381
Y	N/A	19697.00000	0.313	19768.00000	19655.00000	19668.00000

Line: 4

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 3 52 S

07/15/96

17:27

ELEMENT	CONC (ppm)	AVG INTENSITY RATIO		%RSD	INTEGRATIONS		
					#1	#2	#3
Ag	1.000	1.36033	1.002	1.37589	1.35467	1.35044	
As	1.000	0.80161	0.746	0.80850	0.79861	0.79771	
B	1.000	0.20472	0.524	0.20588	0.20453	0.20376	
Ba	1.000	2.02607	0.983	2.04907	2.01501	2.01413	
Be	1.000	3.20332	0.973	3.23796	3.19449	3.17751	
Cd	1.000	7.63152	1.136	7.72969	7.59943	7.56543	
Co	1.000	0.72222	0.910	0.72974	0.71933	0.71757	
Cu	1.000	1.27443	0.891	1.28754	1.26805	1.26769	
Mn	1.000	15.36733	0.9	15.52606	15.30321	15.27271	
Ni	1.000	1.62534	0.821	1.64049	1.62026	1.61527	
Pb	1.000	1.26110	1.208	1.27864	1.25107	1.25360	
Se	1.000	3.08719	1.435	3.13837	3.06081	3.06240	
Sr	1.000	57.81412	1.033	58.50242	57.50785	57.43210	
Tl	1.000	0.17060	1.271	0.17310	0.16953	0.16918	
Y	N/A	20207.66601	0.842	20011.00000	20309.00000	20303.00000	
Zn	1.000	0.39616	0.777	0.39908	0.39647	0.39294	

AR305156

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 4 S3 S

07/15/96

17:31

ELEM	CONC (ppm)	AVG INTENSITY RATIO	%RSD	INTEGRATIONS		
				#1	#2	#3
Cr	1.000	1.27106	0.128	1.26949	1.27095	1.27275
Mo	1.000	2.42592	0.586	2.41496	2.42080	2.44199
Sb	1.000	1.27738	0.348	1.27417	1.27552	1.28246
Sn	1.000	2.59924	0.484	2.60231	2.58539	2.61003
Ti	1.000	7.11830	0.163	7.10509	7.12269	7.12711
V	1.000	2.19647	0.068	2.19550	2.19571	2.19821
Y	N/A	20105.66601	0.178	20086.00000	20147.00000	20084.00000

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 5 ICV 07/15/96 17:34

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.62801	0.184	0.62765	0.62930	0.62707		
Al	30.01482	0.137	29.96722	30.03880	30.03842		
As	0.62286	0.164	0.62193	0.62396	0.62270		
B	0.65823	0.693	0.65313	0.65964	0.66192		
Ba	0.61556	0.089	0.61506	0.61615	0.61547		
Be	0.61745	0.286	0.61765	0.61912	0.61559		
Ca	30.22952	0.069	30.24991	30.23061	30.20804		
Cd	0.61708	0.203	0.61677	0.61845	0.61600		
Co	0.62273	0.108	0.62295	0.62328	0.62198		
Cr	0.63108	0.049	0.63141	0.63103	0.63079		
Cu	0.62413	0.341	0.62324	0.62656	0.62259		
Fe	30.23411	0.257	30.20228	30.32286	30.17719		
K	30.51788	0.755	30.44937	30.32923	30.77503		
Mg	30.04922	0.152	30.02720	30.10204	30.01841		
Mn	0.62311	0.147	0.62291	0.62411	0.62231		
Mo	0.63228	0.295	0.63028	0.63258	0.63397		
Na	30.47314	0.635	30.60385	30.25049	30.56507		
Ni	0.62294	0.355	0.62069	0.62513	0.62301		
Pb	0.61453	0.494	0.61201	0.61791	0.61368		
Sb	0.63831	0.813	0.63688	0.64407	0.63398		
Se	0.61192	0.363	0.60989	0.61429	0.61157		
Sn	0.60131	0.628	0.60482	0.60181	0.59731		
Sr	0.60983	0.089	0.60936	0.61043	0.60970		
Ti	0.63822	0.150	0.63773	0.63933	0.63760		
Tl	0.62233	0.851	0.62592	0.62482	0.61625		
V	0.60578	0.248	0.60581	0.60727	0.60426		
Y	19732.00000	0.371	19783.00000	19648.00000	19765.00000		
Zn	0.60771	0.457	0.60621	0.61091	0.60599		

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 6 ICB

07/15/96

17:39

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			
			#1	#2	#3	REREAD REDIG
Ag	0.00019	228.4	0.00041	-0.00031	0.00048	
Al	0.02613	11.51	0.02771	0.02266	0.02802	
As	-0.00169	81.94	-0.00009	-0.00252	-0.00246	
B	0.00855	11.91	0.00969	0.00773	0.00823	
Ba	0.00013	75.81	0.00022	0.00002	0.00014	
Be	-0.00049	42.82	-0.00049	-0.00028	-0.00070	
Ca	-0.04525	5.232	-0.04269	-0.04737	-0.04568	
Cd	-0.00008	90.98	-0.00013	0.00000	-0.00011	
Co	-0.00004	1177.	0.00045	-0.00064	0.00004	
Cr	-0.00115	19.71	-0.00089	-0.00128	-0.00128	
Cu	-0.00185	10.88	-0.00162	-0.00199	-0.00193	
Fe	0.00962	136.5	0.01772	-0.00554	0.01668	
K	0.10665	4.281	0.11130	0.10648	0.10217	
Mg	0.01403	15.37	0.01509	0.01155	0.01545	
Mn	-0.00022	41.25	-0.00025	-0.00029	-0.00011	
Mo	0.00172	8.969	0.00189	0.00163	0.00163	
Na	0.05208	240.2	0.16260	-0.08383	0.07749	
Ni	-0.00008	129.5	-0.00011	-0.00017	0.00003	
Pb	-0.00139	91.48	-0.00135	-0.00267	-0.00013	
Sb	0.00022	663.6	0.00177	-0.00126	0.00017	
Se	0.00072	256.1	-0.00050	0.00285	-0.00018	
Sn	-0.00057	110.1	0.00002	-0.00051	-0.00124	
Sr	0.00008	9.188	0.00009	0.00007	0.00008	
Ti	0.00009	146.2	0.00013	-0.00005	0.00022	
Tl	0.00147	346.6	0.00715	-0.00267	-0.00007	
V	0.00028	2.059	0.00028	0.00027	0.00028	
Y	20001.33398	0.028	20003.00000	20006.00000	19995.00000	
Zn	0.00009	519.5	-0.00024	-0.00011	0.00064	

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 7 CRI

07/15/96

17:44

ELEMENT	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.02040	1.226	0.02062	0.02045	0.02013		
Al	0.01868	8.618	0.01917	0.01688	0.01998		
As	0.01817	5.261	0.01724	0.01915	0.01813		
B	0.00693	16.47	0.00703	0.00574	0.00802		
Ba	0.00005	64.74	0.00004	0.00009	0.00002		
Be	0.00995	0.603	0.01000	0.00997	0.00988		
Ca	-0.04727	1.845	-0.04636	-0.04736	-0.04810		
Cd	0.00996	2.024	0.01018	0.00978	0.00993		
Co	0.10103	0.620	0.10168	0.10043	0.10096		
Cr	0.01924	1.282	0.01938	0.01896	0.01940		
Cu	0.04951	0.695	0.04989	0.04940	0.04923		
Fe	0.07010	80.48	0.01695	0.01223	0.00111		
K	0.10228	7.489	0.10787	0.09355	0.10542		
Mg	0.01006	5.881	0.00938	0.01035	0.01045		
Mn	0.03025	0.244	0.03031	0.03017	0.03028		
Mo	0.00028	198.1	0.00050	0.00070	-0.00035		
Na	0.12575	52.56	0.19413	0.06219	0.12093		
Ni	0.08055	1.243	0.08133	0.08090	0.07942		
Pb	0.00465	39.06	0.00267	0.00624	0.00505		
Sb	0.12466	1.037	0.12432	0.12608	0.12356		
Se	0.00953	27.11	0.01044	0.01153	0.00661		
Sn	-0.00039	626.8	-0.00001	-0.00303	0.00186		
Sr	0.00004	64.24	0.00006	0.00001	0.00004		
Ti	-0.00006	64.71	-0.00002	-0.00011	-0.00006		
Tl	0.02417	16.01	0.02353	0.02832	0.02066		
V	0.10054	0.865	0.10106	0.09953	0.10102		
Y	20125.33398	0.440	20085.00000	20227.00000	20064.00000		
Zn	0.04073	0.801	0.04111	0.04057	0.04052		

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Sample Name: 9619705T62

Tube: 8 ICSA

07/15/96

17:49

ELEMENT	AVG (ppm)	%RSD	INTEGRATIONS		
			#1	#2	#3
Ag	0.00036	55.63	0.00034	0.00058	0.00017
Al	517.31951	0.560	513.98742	518.68933	519.28186
As	-0.00189	177.4	-0.00413	-0.00353	0.00197
B	0.00970	6.795	0.01040	0.00909	0.00961
Ba	0.00911	0.213	0.00909	0.00913	0.00911
Be	-0.00453	4.278	-0.00437	-0.00474	-0.00447
Ca	515.20568	0.521	512.30651	517.61157	515.69897
Cd	-0.00004	985.7	-0.00035	-0.00018	0.00041
Co	0.00160	18.18	0.00147	0.00193	0.00139
Cr	-0.00161	7.917	-0.00175	-0.00159	-0.00150
Cu	-0.00499	3.106	-0.00487	-0.00516	-0.00493
Fe	210.06484	0.473	208.94905	210.85754	210.38793
K	0.12217	1.476	0.12272	0.12016	0.12364
Mg	546.31500	0.304	544.44268	547.62866	546.87371
Mn	0.00593	2.670	0.00595	0.00576	0.00607
Mo	-0.00004	2758.	0.00031	-0.00143	0.00097
Na	0.10863	36.72	0.11560	0.14457	0.06571
Ni	-0.00032	179.1	0.00012	-0.00011	-0.00097
Pb	-0.00797	38.73	-0.01152	-0.00651	-0.00588
Sb	0.00869	10.88	0.00845	0.00973	0.00788
Se	0.00329	63.26	0.00094	0.00491	0.00403
Sn	0.00449	24.23	0.00353	0.00567	0.00426
Sr	0.02118	0.371	0.02109	0.02123	0.02122
Ti	-0.00122	5.258	-0.00128	-0.00115	-0.00123
Tl	-0.03589	9.903	0.03378	0.04000	0.03389
V	0.01212	2.219	0.01188	0.01206	0.01241
Y	17964.00000	0.200	18001.00000	17929.00000	17962.00000
Zn	0.00534	35.33	0.00393	0.00749	0.00461

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 9 ICSAB

07/15/96

17:54

LEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.22441	0.297	0.22368	0.22499	0.22456		
Al	514.06689	0.181	513.97149	513.18585	515.04339		
As	0.10164	2.348	0.10123	0.09949	0.10421		
B	0.02490	3.076	0.02431	0.02576	0.02461		
Ba	0.55275	0.110	0.55277	0.55213	0.55335		
Be	0.50289	0.179	0.50186	0.50350	0.50332		
Ca	513.12677	0.258	511.69509	513.36413	514.32104		
Cd	0.99418	0.177	0.99237	0.99589	0.99427		
Co	0.51884	0.204	0.51763	0.51925	0.51963		
Cr	0.52501	0.302	0.52325	0.52633	0.52546		
Cu	0.58024	0.141	0.58051	0.57932	0.58090		
Fe	209.67155	0.198	209.22372	209.74568	210.04524		
K	0.11427	4.216	0.11024	0.11296	0.11960		
Mg	543.23785	0.120	542.52746	543.36761	543.81848		
Mn	0.52813	0.181	0.52716	0.52815	0.52908		
Mo	0.00182	30.95	0.00247	0.00146	0.00153		
Na	0.22151	31.84	0.18401	0.30287	0.17765		
Ni	1.02356	0.366	1.01998	1.02322	1.02747		
Pb	0.04256	6.435	0.03965	0.04509	0.04293		
Sb	0.65878	1.053	0.65630	0.65342	0.66662		
Se	0.05495	9.901	0.05048	0.05337	0.06101		
Sn	0.00344	28.02	0.00427	0.00238	0.00368		
Sr	0.02106	0.097	0.02105	0.02105	0.02109		
Ti	-0.00141	8.509	-0.00145	-0.00151	-0.00127		
Tl	0.13549	6.040	0.13711	0.12662	0.14275		
V	0.53395	0.255	0.53392	0.53261	0.53534		
Y	18284.66601	0.191	18314.00000	18246.00000	18294.00000		
Zn	0.95908	0.515	0.95443	0.96427	0.95854		

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 10 CCV

07/15/96

17:59

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.51793	0.741	0.52075	0.51356	0.51949		
Al	25.24884	0.929	25.35273	24.98003	25.41377		
As	0.51269	0.166	0.51336	0.51173	0.51299		
B	0.52652	1.009	0.52840	0.52052	0.53064		
Ba	0.51511	1.004	0.51771	0.50915	0.51847		
Be	0.51030	0.714	0.51326	0.50623	0.51141		
Ca	25.02023	0.697	25.19302	24.84410	25.02356		
Cd	0.51249	0.739	0.51595	0.50844	0.51308		
Co	0.51578	0.708	0.51939	0.51208	0.51588		
Cr	0.52240	0.789	0.52571	0.51778	0.52370		
Cu	0.52016	1.069	0.52222	0.51386	0.52440		
Fe	25.10078	0.821	25.25113	24.86576	25.18545		
K	26.05779	1.313	26.21847	25.66482	26.29009		
Mg	25.15939	0.771	25.25781	24.93574	25.28463		
Mn	0.52037	0.678	0.52345	0.51652	0.52113		
Mo	0.52314	1.128	0.52455	0.51666	0.52821		
Na	25.89659	0.865	26.04561	25.63889	26.00526		
Ni	0.52189	0.637	0.52440	0.51812	0.52314		
Pb	0.51140	0.259	0.51173	0.50995	0.51254		
Sb	0.52194	0.923	0.52296	0.51670	0.52617		
Se	0.51207	0.622	0.51371	0.50840	0.51411		
Sn	0.50480	0.956	0.50804	0.49925	0.50710		
Sr	0.50745	0.973	0.51029	0.50174	0.51030		
Ti	0.52359	0.834	0.52662	0.51858	0.52557		
Tl	0.51797	0.262	0.51952	0.51739	0.51699		
V	0.50324	0.668	0.50581	0.49944	0.50449		
Y	19667.33398	0.418	19634.00000	19761.00000	19607.00000		
Zn	0.50589	0.798	0.51035	0.50247	0.50486		

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 11 CCB

07/15/96

18:04

ITEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	-0.00007	614.8	0.00034	-0.00059	0.00002		
Al	0.06307	6.442	0.05849	0.06625	0.06448		
As	-0.00130	27.69	-0.00090	-0.00141	-0.00160		
B	0.00345	37.80	0.00480	0.00338	0.00219		
Ba	0.00009	70.43	0.00017	0.00005	0.00005		
Be	-0.00054	25.93	-0.00044	-0.00049	-0.00070		
Ca	-0.03012	5.364	-0.02826	-0.03098	-0.03113		
Cd	-0.00016	198.2	-0.00029	-0.00040	0.00020		
Co	0.00037	99.39	0.00052	0.00065	-0.00004		
Cr	-0.00062	74.53	-0.00069	-0.00104	-0.00012		
Cu	-0.00274	16.34	-0.00226	-0.00282	-0.00314		
Fe	0.01531	48.07	0.02159	0.00721	0.01711		
K	0.09521	2.819	0.09265	0.09498	0.09801		
Mg	0.02853	13.11	0.03282	0.02593	0.02684		
Mn	-0.00026	4.543	-0.00025	-0.00026	-0.00028		
Mo	0.00094	30.86	0.00126	0.00088	0.00068		
Na	0.06214	78.96	0.04663	0.02270	0.11710		
Ni	-0.00100	44.80	-0.00048	-0.00125	-0.00127		
Pb	-0.00095	162.4	-0.00273	0.00003	-0.00015		
Sb	0.00273	63.98	0.00174	0.00170	0.00475		
Se	0.00082	142.7	0.00216	0.00041	-0.00009		
Sn	-0.00047	336.2	-0.00232	0.00034	0.00054		
Sr	0.00004	30.38	0.00005	0.00003	0.00004		
Ti	-0.00002	640.8	0.00016	-0.00018	-0.00006		
Tl	0.00232	248.0	0.00802	0.00244	-0.00349		
V	0.00031	90.00	0.00051	0.00000	0.00043		
Y	19844.00000	0.700	19985.00000	19840.00000	19707.00000		
Zn	-0.00007	274.4	-0.00011	0.00014	-0.00023		

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AR305164

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 12 PBW
 ***.100-100.DF1.96190572000T.8..

07/15/96

18:09

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
✓Ag	0.00008	351.7	-0.00005	0.00045	-0.00013	_____	_____
✓Al	0.04374	1.226	0.04323	0.04430	0.04370	_____	_____
✓As	-0.00267	18.43	-0.00226	-0.00322	-0.00252	_____	_____
—B	0.00452	19.05	0.00547	0.00431	0.00379	_____	_____
—Ba	0.00007	59.06	0.00009	0.00009	0.00002	_____	_____
✓Be	-0.00032	57.43	-0.00024	-0.00053	-0.00019	_____	_____
—Ca	-0.03965	2.784	-0.03913	-0.03890	-0.04092	_____	_____
✓Cd	-0.00038	40.57	-0.00056	-0.00033	-0.00026	_____	_____
—Co	0.00036	11.90	0.00039	0.00031	0.00039	_____	_____
✓Cr	-0.00096	30.62	-0.00100	-0.00124	-0.00065	_____	_____
✓Cu	-0.00256	5.430	-0.00245	-0.00272	-0.00251	_____	_____
—Fe	0.01638	85.84	0.01149	0.03224	0.00541	_____	_____
—K	0.09753	6.460	0.09220	0.10449	0.09592	_____	_____
—Mg	0.01929	22.21	0.02169	0.02184	0.01434	_____	_____
✓Mn	-0.00020	29.44	-0.00013	-0.00023	-0.00024	_____	_____
—Mo	0.00044	196.5	0.00138	0.00025	-0.00031	_____	_____
—Na	0.08670	85.87	0.03595	0.05197	0.17217	_____	_____
✓Ni	0.00162	52.51	0.00063	0.00207	0.00215	_____	_____
—Pb	-0.00119	117.2	-0.00278	-0.00069	-0.00011	_____	_____
✓Sb	0.00037	280.3	0.00023	-0.00059	0.00149	_____	_____
✓Se	0.00040	473.0	0.00077	0.00210	-0.00166	_____	_____
—Sn	-0.00067	169.8	0.00000	-0.00199	-0.00002	_____	_____
—Sr	0.00002	20.90	0.00003	0.00003	0.00002	_____	_____
—Ti	0.00002	371.5	0.00000	0.00014	-0.00005	_____	_____
—Tl	-0.00072	165.2	0.00057	-0.00095	-0.00178	_____	_____
—V	0.00026	109.6	0.00041	-0.00007	0.00046	_____	_____
✓Y	20047.33398	0.319	20109.00000	19981.00000	20052.00000	_____	_____
✓Zn	0.00177	12.77	0.00151	0.00190	0.00189	_____	_____

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 13 LCSW 07/15/96 18:13
 *** 1-1.DF1,961905720001.8...

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
✓Ag	0.05068	0.376	0.05058	0.05090	0.05055	_____	_____	
✓Al	2.10639	0.221	2.10908	2.10909	2.10101	_____	_____	
✓As	2.04901	0.477	2.04145	2.04552	2.06006	_____	_____	
__B	2.05222	0.536	2.03975	2.05633	2.06058	_____	_____	
__Ba	2.01803	0.015	2.01779	2.01791	2.01840	_____	_____	
✓Be	0.04929	0.407	0.04926	0.04910	0.04950	_____	_____	
__Ca	3.98157	0.174	3.97938	3.97597	3.98935	_____	_____	
✓Cd	0.04975	0.218	0.04988	0.04967	0.04971	_____	_____	
__Co	0.50448	0.169	0.50358	0.50458	0.50528	_____	_____	
✓Cr	0.20617	0.612	0.20593	0.20505	0.20754	_____	_____	
✓Cu	0.25157	0.195	0.25142	0.25118	0.25212	_____	_____	
__Fe	1.03471	0.998	1.04071	1.04065	1.02278	_____	_____	
__K	3.73052	0.551	3.71850	3.75426	3.71881	_____	_____	
__Mg	1.98694	0.125	1.98967	1.98477	1.98637	_____	_____	
✓Mn	0.50873	0.154	0.50887	0.50788	0.50944	_____	_____	
__Mo	2.07288	0.075	2.07446	2.07134	2.07283	_____	_____	
__Na	3.82709	2.155	3.84903	3.73586	3.89639	_____	_____	
✓Ni	0.51246	0.457	0.51515	0.51081	0.51143	_____	_____	
__Pb	0.50248	0.425	0.50461	0.50250	0.50033	E	_____	
✓Sb	0.53154	0.607	0.53113	0.52853	0.53495	_____	_____	
✓Se	2.01790	0.287	2.02268	2.01145	2.01957	_____	_____	
__Sn	3.98599	0.191	3.98198	3.98119	3.99479	_____	_____	
__Sr	1.02395	0.029	1.02402	1.02363	1.02422	_____	_____	
__Ti	1.05094	0.102	1.05031	1.05032	1.05218	_____	_____	
__Tl	2.03873	0.136	2.03566	2.04109	2.03944	E	_____	
__V	0.49739	0.036	0.49720	0.49755	0.49743	_____	_____	
__Y	19850.33398	0.204	19810.00000	19891.00000	19850.00000	_____	_____	
✓Zn	0.49837	0.290	0.49735	0.49772	0.50002	_____	_____	

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 14 2537155 W-204
U***.100-100.DF1.961905720001.8..

07/15/96 18:18

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			
			#1	#2	#3	REREAD REDIG
X Ag	0.00009	166.8	0.00021	0.00014	-0.00008	_____
X Al	0.05160	6.508	0.05388	0.04775	0.05318	_____
X As	-0.00164	67.14	-0.00286	-0.00134	-0.00071	_____
B	10.22082	0.381	10.17676	10.23493	10.25077	_____
Ba	0.04167	0.111	0.04170	0.04162	0.04169	_____
X Be	-0.00078	12.57	-0.00085	-0.00082	-0.00067	_____
Ca	52.11151	0.171	52.01147	52.18426	52.13880	_____
X Cd	-0.00005	492.3	0.00026	-0.00022	-0.00020	_____
Co	0.00135	46.36	0.00198	0.00135	0.00072	_____
X Cr	-0.00058	79.13	-0.00088	-0.00005	-0.00080	_____
X Cu	-0.00266	5.256	-0.00271	-0.00250	-0.00277	_____
Fe	-0.03128	12.61	-0.02840	-0.03578	-0.02965	_____
K	0.86294	0.681	0.86668	0.85616	0.86600	_____
Mg	19.41362	0.051	19.40321	19.41436	19.42329	_____
X Mn	-0.00015	20.25	-0.00015	-0.00012	-0.00018	_____
Mo	0.00205	23.34	0.00256	0.00200	0.00160	_____
Na	22.42053	0.579	22.48501	22.27098	22.50560	_____
X Ni	-0.00002	4392.	0.00009	0.00099	-0.00115	_____
Pb	-0.00007	1486.	0.00032	-0.00130	0.00075	E _____
X Sb	0.00295	36.40	0.00345	0.00171	0.00368	_____
X Se	0.00266	99.79	0.00511	0.00306	-0.00016	_____
Sn	0.00114	117.0	0.00059	0.00016	0.00266	_____
Sr	0.39781	0.028	0.39794	0.39774	0.39776	_____
Ti	-0.00005	97.18	-0.00004	0.00000	-0.00010	_____
Tl	0.00231	169.8	-0.00052	0.00679	0.00066	E _____
V	0.00027	72.05	0.00004	0.00038	0.00038	_____
Y	19795.66601	0.081	19777.00000	19805.00000	19805.00000	_____
X Zn	0.00605	9.595	0.00665	0.00549	0.00600	_____

File: 16

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 15 2537155 W-204A 07/15/96 18:23
UP** 100-100.DF1.961905720001.8...

ELEMENT	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	0.02255	1.850	0.02246	0.02301	0.02219			
Al	0.50115	2.011	0.49689	0.51266	0.49390			
As	0.02251	7.802	0.02142	0.02454	0.02158			
B	10.35658	0.768	10.29060	10.44501	10.33413			
Ba	0.48330	0.696	0.48104	0.48717	0.48169			
Be	0.01012	2.864	0.01021	0.00979	0.01035			
Ca	52.77127	0.959	52.42239	53.35188	52.53952			
Cd	0.01093	3.036	0.01128	0.01089	0.01062			
Co	0.11019	0.447	0.10968	0.11067	0.11021			
Cr	0.02158	0.590	0.02171	0.02158	0.02146			
Cu	0.05268	0.662	0.05266	0.05234	0.05304			
Fe	0.17488	5.214	0.16616	0.18436	0.17412			
K	2.93904	0.582	2.92067	2.95459	2.94185			
Mg	20.27673	0.782	20.17094	20.45925	20.20000			
Mn	0.03343	1.080	0.03316	0.03384	0.03329			
Mo	0.23839	0.610	0.23751	0.24007	0.23758			
Na	24.40584	0.409	24.29188	24.47801	24.44764			
Ni	0.09003	1.674	0.08829	0.09080	0.09100			
Pb	0.01071	7.644	0.01058	0.01158	0.00996	E		
Sb	0.16347	3.300	0.16904	0.16310	0.15826			
Se	0.01269	14.63	0.01104	0.01470	0.01231			
Sn	0.76633	1.778	0.78047	0.76524	0.75327			
Sr	0.41574	0.808	0.41350	0.41960	0.41411			
Ti	0.11386	0.847	0.11350	0.11495	0.11312			
Tl	0.02264	4.616	0.02368	0.02264	0.02159	E		
V	0.10719	0.820	0.10652	0.10819	0.10686			
Y	19657.66601	0.930	19719.00000	19452.00000	19802.00000			
Zn	0.05485	1.941	0.05399	0.05604	0.05452			

AR305168

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 16 2537155 W-204 D 07/15/96 18:28
 n***.100-100.DF1.961905720001.8

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			#3	REREAD	REDIG
			#1	#2	#3			
✓Ag	0.00026	28.15	0.00032	0.00029	0.00018	_____	_____	
✓Al	0.05563	4.746	0.05644	0.05777	0.05268	_____	_____	
✓As	-0.00195	22.92	-0.00147	-0.00203	-0.00236	_____	_____	
—B	10.27014	0.093	10.25950	10.27820	10.27273	_____	_____	
—Ba	0.04163	0.222	0.04154	0.04173	0.04162	_____	_____	
✓Be	-0.00092	19.56	-0.00105	-0.00100	-0.00071	_____	_____	
—Ca	52.41445	0.184	52.32744	52.39772	52.51821	_____	_____	
—Cd	-0.00027	114.5	-0.00052	-0.00039	0.00008	_____	_____	
✓Co	0.00165	4.839	0.00170	0.00170	0.00156	_____	_____	
—Cr	-0.00052	49.12	-0.00056	-0.00076	-0.00025	_____	_____	
✓Cu	-0.00301	9.587	-0.00333	-0.00279	-0.00290	_____	_____	
—Fe	-0.03252	16.75	-0.03879	-0.02990	-0.02888	_____	_____	
—K	0.85875	0.053	0.85822	0.85901	0.85901	_____	_____	
—Mg	19.42004	0.097	19.41580	19.44065	19.40365	_____	_____	
✓Mn	-0.00013	50.26	-0.00018	-0.00014	-0.00005	_____	_____	
—Mo	0.00062	223.1	0.00160	0.00121	-0.00096	_____	_____	
—Na	22.43821	0.679	22.26305	22.54110	22.51047	_____	_____	
✓Ni	-0.00042	163.8	-0.00068	0.00036	-0.00094	_____	_____	
—Pb	-0.00001	3006.	-0.00019	-0.00033	0.00048	E	_____	
✓Sb	0.00253	77.33	0.00409	0.00319	0.00033	_____	_____	
—Se	0.00119	92.51	0.00238	0.00019	0.00101	_____	_____	
✓Sn	-0.00034	465.7	0.00150	-0.00152	-0.00102	_____	_____	
—Sr	0.39867	0.147	0.39828	0.39935	0.39839	_____	_____	
—Ti	-0.00003	349.2	-0.00014	0.00010	-0.00006	_____	_____	
—Tl	0.00057	792.6	0.00210	-0.00455	0.00417	E	_____	
—V	0.00008	406.3	-0.00016	0.00045	-0.00004	_____	_____	
—Y	19823.00000	0.236	19770.00000	19859.00000	19840.00000	_____	_____	
✓Zn	0.00472	10.66	0.00473	0.00522	0.00421	_____	_____	

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 17 2537155 W-2445 07/15/96 18:33
 ***.100-100,DF1,961905720001,8,.

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
✓Ag	0.05169	1.323	0.05137	0.05247	0.05122	_____	_____
✓Al	2.11910	1.150	2.09973	2.14646	2.11111	_____	_____
✓As	0.04195	3.878	0.04307	0.04008	0.04269	_____	_____
__B	12.41999	1.198	12.29513	12.58478	12.38005	_____	_____
__Ba	2.07237	0.980	2.05541	2.09490	2.06679	_____	_____
✓Be	0.04946	0.494	0.04925	0.04973	0.04939	_____	_____
__Ca	56.85126	1.130	56.42031	57.59029	56.54320	_____	_____
✓Cd	0.04961	1.293	0.04928	0.05035	0.04919	_____	_____
✓Co	0.50758	1.349	0.50192	0.51520	0.50562	_____	_____
✓Cr	0.20853	1.108	0.20660	0.21109	0.20789	_____	_____
✓Cu	0.25559	0.966	0.25338	0.25826	0.25514	_____	_____
__Fe	0.97016	2.239	0.97043	0.99174	0.94830	_____	_____
__K	4.77749	0.638	4.74486	4.80535	4.78225	_____	_____
__Mg	21.69325	1.116	21.50549	21.96661	21.60764	_____	_____
✓Mn	0.51119	1.121	0.50706	0.51773	0.50878	_____	_____
__Mo	2.06354	1.166	2.04578	2.09095	2.05389	_____	_____
__Na	27.06825	1.410	26.71189	27.47121	27.02166	_____	_____
✓Ni	0.51227	1.285	0.50835	0.51987	0.50858	_____	_____
__Pb	0.02049	7.839	0.02056	0.02206	0.01885	E	_____
✓Sb	0.53562	1.007	0.53089	0.54149	0.53447	_____	_____
✓Se	0.01350	6.422	0.01450	0.01306	0.01295	_____	_____
__Sn	4.12625	1.265	4.09379	4.18649	4.09846	_____	_____
__Sr	1.44489	0.994	1.43364	1.46109	1.43995	_____	_____
__Ti	1.05157	1.071	1.04261	1.06421	1.04789	_____	_____
__Tl	0.05364	4.942	0.05239	0.05668	0.05184	E	_____
__V	0.49702	1.236	0.49269	0.50405	0.49433	_____	_____
__Y	19596.33398	0.987	19716.00000	19373.00000	19700.00000	_____	_____
✓Zn	0.49599	1.107	0.49214	0.50228	0.49354	_____	_____

AR305170

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 18 2537155 W-2φ4L

07/15/96

18:38

***, 100-100, DF5, 961905720001, 8,

ELEMENT	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00051	31.89	0.00065	0.00055	0.00033		
Al	0.05618	3.074	0.05713	0.05418	0.05722		
As	-0.00252	65.00	-0.00064	-0.00365	-0.00328		
B	2.01556	0.845	2.03487	2.00920	2.00262		
Ba	0.00824	1.023	0.00816	0.00833	0.00822		
Be	-0.00088	14.77	-0.00102	-0.00083	-0.00077		
Ca	9.93307	0.389	9.97066	9.93511	9.89344		
Cd	-0.00009	109.7	0.00000	-0.00006	-0.00021		
Co	0.00086	36.98	0.00058	0.00121	0.00080		
Cr	-0.00030	177.6	0.00030	-0.00049	-0.00073		
Cu	-0.00305	6.135	-0.00326	-0.00295	-0.00293		
Fe	0.00679	100.2	0.01464	0.00265	0.00306		
K	0.25043	1.944	0.24510	0.25465	0.25155		
Mg	3.67273	0.248	3.68310	3.66582	3.66926		
Mn	-0.00003	43.07	-0.00002	-0.00002	-0.00004		
Mo	0.00256	45.79	0.00358	0.00282	0.00126		
Na	4.09012	2.050	4.14610	4.13057	3.99368		
Ni	0.00051	184.1	0.00118	0.00094	-0.00057		
Pb	-0.00036	363.5	-0.00151	0.00110	-0.00068	E	
Sb	0.00188	48.96	0.00212	0.00086	0.00266		
Se	0.00024	461.2	0.00094	0.00088	-0.00108		
Sn	0.00129	140.0	0.00057	-0.00004	0.00336		
Sr	0.07570	0.071	0.07576	0.07569	0.07566		
Ti	0.00033	8.636	0.00036	0.00033	0.00030		
Tl	0.00111	285.4	0.00417	-0.00216	0.00132	E	
V	0.00032	30.63	0.00041	0.00021	0.00035		
Y	19876.00000	0.393	19786.00000	19914.00000	19928.00000		
Zn	0.00657	6.002	0.00703	0.00634	0.00634		

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 19 2537156

W-203

07/15/96

18:43

***.100-100.DF1.961905720001.8..

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
X Ag	-0.00020	175.8	-0.00034	0.00020	-0.00048			
X Al	0.06422	1.424	0.06362	0.06377	0.06528			
X As	-0.00366	12.11	-0.00406	-0.00319	-0.00374			
B	1.46860	0.201	1.47201	1.46664	1.46714			
Ba	0.05239	0.236	0.05252	0.05227	0.05237			
X Be	-0.00064	27.73	-0.00078	-0.00070	-0.00044			
Ca	72.02730	0.420	71.85902	72.37702	71.84585			
X Cd	-0.00001	304.7	-0.00007	0.00004	-0.00002			
Co	-0.00013	277.5	0.00030	-0.00033	-0.00038			
X Cr	-0.00035	230.8	0.00023	0.00000	-0.00128			
X Cu	-0.00224	7.851	-0.00235	-0.00232	-0.00203			
Fe	-0.05352	6.819	-0.05494	-0.04938	-0.05625			
K	0.98530	0.653	0.98972	0.98827	0.97791			
Mg	26.74611	0.113	26.77881	26.74103	26.71849			
X Mn	0.00014	72.69	0.00013	0.00025	0.00004			
Mo	0.00065	56.13	0.00077	0.00093	0.00023			
Na	8.07648	1.106	8.17938	8.03202	8.01803			
X Ni	0.00009	1341.	-0.00106	0.00144	-0.00010			
Pb	0.00075	154.5	0.00000	0.00017	0.00208	E		
X Sb	0.00291	46.62	0.00442	0.00179	0.00253			
X Se	0.00082	123.6	-0.00027	0.00174	0.00101			
Sn	0.00005	2091.	0.00078	-0.00115	0.00052			
Sr	0.63626	0.168	0.63749	0.63553	0.63576			
Ti	-0.00026	29.22	-0.00018	-0.00027	-0.00033			
Tl	0.00374	67.30	0.00384	0.00117	0.00622	E		
V	0.00000	6228.	-0.00003	0.00052	-0.00051			
Y	19753.56601	0.360	19739.00000	19691.00000	19831.00000			
X Zn	0.00768	4.664	0.00743	0.00809	0.00752			

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9519705T62

w-3φ3

Tube: 20 2537157

07/15/96

18:48

***100-100.DF1.961905720001.8..

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		
			#1	#2	#3
X Ag	0.00063	51.43	0.00063	0.00030	0.00096
X Al	0.04946	7.925	0.05156	0.04494	0.05189
X As	0.00113	67.56	0.00028	0.00177	0.00134
B	0.13048	2.453	0.13416	0.12899	0.12830
3a	0.01853	0.705	0.01868	0.01846	0.01845
X Be	-0.00070	26.19	-0.00085	-0.00050	-0.00076
Ca	27.68153	0.368	27.73450	27.56380	27.74630
Cd	-0.00002	492.0	0.00010	-0.00009	-0.00007
X Co	-0.00105	9.849	0.00115	0.00094	0.00107
Cr	-0.00024	242.2	0.00013	-0.00092	0.00005
X Cu	-0.00242	13.36	-0.00280	-0.00224	-0.00223
Fe	-0.00851	150.2	-0.01565	-0.01613	0.00625
K	7.29059	1.043	7.34249	7.32601	7.20327
Mg	11.70804	0.257	11.74263	11.68721	11.69426
X Mn	0.00017	18.91	0.00016	0.00014	0.00020
Mo	0.00095	75.65	0.00117	0.00153	0.00014
Na	5.90891	0.984	5.95136	5.84261	5.93277
X Ni	0.00054	46.37	0.00037	0.00083	0.00041
Pb	-0.00021	416.3	-0.00115	-0.00012	0.00062
X Sb	0.00336	71.55	0.00323	0.00102	-0.00583
X Se	-0.00146	84.84	-0.00218	-0.00217	-0.00002
Sn	0.00017	580.3	0.00134	-0.00054	-0.00027
Sr	0.24457	0.245	0.24523	0.24443	0.24405
Ti	0.00005	61.57	0.00003	0.00003	0.00008
Tl	0.00280	91.88	0.00569	0.00197	0.00074
V	0.00016	254.7	0.00016	-0.00025	0.00058
Y	19990.33398	0.299	19979.00000	20055.00000	19937.00000
X Zn	0.00299	12.19	0.00341	0.00277	0.00279

AR305173

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 21 2537158

W-24φ

07/15/96

18:53

100-100.DF1.961905720001.8..

ELEM	AVG		INTEGRATIONS					REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3				
X Ag	-0.00015	180.7	0.00006	-0.00006	-0.00045				
X Al	0.08867	5.866	0.09174	0.08256	0.09161				
X As	-0.00259	26.31	-0.00261	-0.00190	-0.00326				
B	0.03210	4.624	0.03362	0.03203	0.03066				
Ba	0.01615	0.239	0.01617	0.01618	0.01611				
X Be	-0.00047	30.84	-0.00056	-0.00054	-0.00030				
Ca	23.91322	0.278	23.85182	23.98421	23.90362				
X Cd	-0.00012	150.3	-0.00030	0.00006	-0.00013				
Co	0.00013	191.4	-0.00011	0.00011	0.00039				
X Cr	0.00035	137.4	-0.00017	0.00080	0.00044				
X Cu	-0.00273	3.556	-0.00275	-0.00282	-0.00263				
Fe	-0.01665	88.94	-0.00674	-0.00953	-0.03368				
K	0.94445	0.662	0.95133	0.94290	0.93911				
Mg	11.20578	0.173	11.21719	11.21687	11.18328				
X Mn	0.00029	23.45	0.00028	0.00036	0.00022				
Mo	0.00039	72.92	0.00011	0.00068	0.00038				
Na	1.56038	5.700	1.49878	1.66237	1.52000				
X Ni	-0.00112	62.02	-0.00187	-0.00101	-0.00049				
Pb	-0.00069	180.2	-0.00039	-0.00207	0.00037	E			
X Sb	0.00263	62.05	0.00440	0.00116	0.00234				
X Se	0.00017	1192.	0.00255	-0.00141	-0.00061				
Sn	-0.00013	729.5	-0.00074	0.00098	-0.00063				
Sr	0.09813	0.103	0.09819	0.09819	0.09801				
Ti	-0.00002	385.3	-0.00001	0.00005	-0.00011				
Tl	-0.00080	531.3	-0.00518	-0.00066	0.00342	E			
V	0.00013	242.3	-0.00022	0.00043	0.00019				
Y	19951.33398	0.716	19794.00000	19987.00000	20073.00000				
X Zn	0.01102	1.565	0.01111	0.01112	0.01082				

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 22 CCV

07/15/96

18:58

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.51955	0.393	0.52186	0.51884	0.51797	_____	_____
Al	25.39514	0.207	25.45252	25.38429	25.34862	_____	_____
As	0.51344	0.432	0.51552	0.51370	0.51109	_____	_____
B	0.54182	0.172	0.54115	0.54142	0.54288	_____	_____
Ba	0.51913	0.139	0.51990	0.51903	0.51846	_____	_____
Be	0.50912	0.345	0.51104	0.50871	0.50759	_____	_____
Ca	25.10838	0.404	25.22245	25.07489	25.02779	_____	_____
Cd	0.51385	0.576	0.51693	0.51361	0.51102	_____	_____
Co	0.51651	0.249	0.51788	0.51632	0.51532	_____	_____
Cr	0.52509	0.542	0.52792	0.52513	0.52223	_____	_____
Cu	0.51823	0.108	0.51836	0.51872	0.51762	_____	_____
Fe	25.20550	0.333	25.30147	25.17023	25.14481	_____	_____
K	26.32846	0.186	26.27303	26.34618	26.36617	_____	_____
Mg	25.28337	0.272	25.36259	25.24996	25.23758	_____	_____
Mn	0.52248	0.349	0.52427	0.52254	0.52062	_____	_____
Mo	0.52455	0.353	0.52570	0.52554	0.52241	_____	_____
Na	26.13136	0.332	26.18568	26.17729	26.03109	_____	_____
Ni	0.52308	0.813	0.52757	0.52258	0.51911	_____	_____
Pb	0.51350	1.114	0.51788	0.51558	0.50703	_____	_____
Sb	0.52277	0.248	0.52289	0.52401	0.52142	_____	_____
Se	0.51353	0.586	0.51515	0.51538	0.51005	_____	_____
Sn	0.50335	0.699	0.50741	0.50152	0.50112	_____	_____
Sr	0.51117	0.170	0.51210	0.51106	0.51036	_____	_____
Ti	0.52544	0.236	0.52670	0.52541	0.52421	_____	_____
Tl	0.52278	0.982	0.51692	0.52651	0.52491	_____	_____
V	0.50488	0.355	0.50674	0.50475	0.50316	_____	_____
Y	19663.66601	0.343	19598.00000	19660.00000	19733.00000	_____	_____
Zn	0.50367	0.560	0.50677	0.50298	0.50125	_____	_____

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 23 CCB

07/15/96

19:03

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00026	88.48	0.00050	0.00002	0.00028		
Al	0.04567	9.433	0.04191	0.05037	0.04473		
As	-0.00162	151.8	-0.00237	-0.00362	0.00113		
B	0.01323	8.448	0.01444	0.01301	0.01223		
Ba	0.00017	28.64	0.00019	0.00011	0.00021		
Be	-0.00009	141.2	-0.00022	0.00005	-0.00012		
Ca	-0.04409	1.874	-0.04324	-0.04415	-0.04489		
Cd	-0.00016	103.7	-0.00003	-0.00035	-0.00009		
Co	0.00024	58.57	0.00012	0.00039	0.00019		
Cr	-0.00072	29.81	-0.00061	-0.00057	-0.00097		
Cu	-0.00287	3.848	-0.00282	-0.00299	-0.00279		
Fe	0.01975	72.10	0.02597	0.00346	0.02984		
K	0.10335	5.726	0.10559	0.09663	0.10781		
Mg	0.01623	9.607	0.01635	0.01462	0.01773		
Mn	-0.00027	23.67	-0.00021	-0.00034	-0.00027		
Mo	0.00147	91.07	0.00287	0.00132	0.00020		
Na	0.16237	69.37	0.13762	0.06415	0.28533		
Ni	-0.00037	146.3	0.00020	-0.00089	-0.00043		
Pb	-0.00209	68.85	-0.00046	-0.00320	-0.00263		
Sb	0.00385	37.13	0.00548	0.00332	0.00276		
Se	0.00014	746.6	-0.00093	0.00129	0.00008		
Sn	-0.00026	203.7	-0.00090	0.00004	0.00005		
Sr	0.00009	19.25	0.00011	0.00007	0.00010		
Ti	0.00019	56.04	0.00025	0.00006	0.00025		
Tl	-0.00168	29.97	-0.00110	-0.00199	-0.00195		
V	0.00005	1057.	0.00064	-0.00053	0.00005		
Y	20171.33398	0.130	20176.00000	20143.00000	20195.00000		
Zn	0.00020	241.6	-0.00012	-0.00024	0.00075		

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 24 2537159 W-4ΦΦ 07/15/96 19:08
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ELEM	AVG		INTEGRATIONS					REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3				
X Ag	0.00022	170.4	-0.00021	0.00038	0.00051				
X Al	0.07963	14.74	0.07632	0.09268	0.06990				
X As	-0.00083	138.9	-0.00218	-0.00006	-0.00026				
B	0.02558	2.654	0.02627	0.02554	0.02492				
Ba	0.01716	1.861	0.01701	0.01753	0.01695				
X Be	-0.00133	60.33	-0.00115	-0.00221	-0.00063				
Ca	24.04374	2.280	23.79727	24.67216	23.66179				
X Cd	0.00000	629.6	-0.00002	0.00000	0.00003				
Co	0.00004	660.3	0.00036	-0.00025	0.00003				
X Cr	0.00035	115.7	0.00044	-0.00009	0.00070				
X Cu	-0.00399	23.32	-0.00408	-0.00487	-0.00302				
Fe	-0.02547	2.648	-0.02570	-0.02471	-0.02600				
K	0.95705	2.411	0.94440	0.98370	0.94307				
Mg	11.30825	2.059	11.23813	11.56812	11.11849				
X Mn	-0.00001	233.6	0.00000	-0.00006	0.00001				
Mo	0.00173	50.60	0.00194	0.00077	0.00250				
Na	1.55714	3.376	1.49684	1.58119	1.59338				
X Ni	-0.00058	44.06	-0.00083	-0.00031	-0.00059				
Pb	-0.00091	105.8	-0.00147	-0.00148	0.00020	E			
X Sb	0.00390	72.51	0.00226	0.00716	0.00227				
X Se	0.00146	61.56	0.00197	0.00042	0.00199				
Sn	-0.00015	715.3	-0.00117	0.00100	-0.00029				
Sr	0.10390	2.035	0.10317	0.10628	0.10224				
Ti	-0.00002	315.2	-0.00006	-0.00005	0.00005				
Tl	-0.00103	582.0	-0.00183	0.00535	-0.00661	E			
V	0.00056	27.96	0.00072	0.00054	0.00041				
Y	19488.33398	1.954	19577.00000	19071.00000	19817.00000				
X Zn	0.00490	6.620	0.00517	0.00454	0.00497				

AR305177

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 25 2537160 W201 S
 *** 100-100.DF1.961905720001.8..

07/15/96

19:13

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
X Ag	0.00021	61.05	0.00017	0.00010	0.00036		
X Al	0.06251	5.236	0.06440	0.05873	0.06439		
X As	-0.00221	28.80	-0.00147	-0.00260	-0.00254		
B	0.11178	0.383	0.11227	0.11154	0.11152		
Ba	0.01583	0.232	0.01586	0.01579	0.01585		
X Be	-0.00077	21.74	-0.00089	-0.00058	-0.00084		
Ca	33.86548	0.204	33.89862	33.78595	33.91189		
Cd	0.00004	322.1	-0.00011	0.00008	0.00016		
X Co	0.00063	98.77	0.00128	0.00003	0.00058		
Cr	-0.00087	87.12	-0.00017	-0.00168	-0.00076		
X Cu	-0.00353	3.857	-0.00352	-0.00367	-0.00340		
Fe	-0.00651	120.4	-0.01082	-0.01124	0.00254		
K	0.92088	0.143	0.91947	0.92108	0.92208		
Mg	14.82114	0.248	14.86115	14.78873	14.81354		
X Mn	0.00027	47.95	0.00038	0.00013	0.00029		
Mo	0.00079	32.88	0.00079	0.00104	0.00052		
Na	1.26704	11.20	1.36482	1.10414	1.33217		
X Ni	0.00037	256.8	0.00146	0.00008	-0.00041		
Pb	-0.00187	65.10	-0.00172	-0.00316	-0.00074	E	
X Sb	0.00265	27.63	0.00188	0.00334	0.00273		
X Se	0.00077	93.31	0.00110	-0.00005	0.00126		
Sn	0.00015	755.8	-0.00018	-0.00078	0.00142		
Sr	1.44769	0.231	1.45150	1.44638	1.44520		
Ti	0.00003	217.0	0.00005	-0.00004	0.00008		
Tl	-0.00272	59.88	-0.00228	-0.00454	-0.00136	E	
V	0.00001	805.3	0.00000	-0.00010	0.00015		
Y	19817.33398	0.209	19775.00000	19858.00000	19819.00000		
X Zn	0.00562	6.704	0.00525	0.00560	0.00600		

AR305178

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 26 2537161 W-201 07/15/96 19:18
 ***.100-100,DF1.961905720001.8..

FLEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
X Ag	0.00019	212.3	-0.00025	0.00054	0.00029			
X Al	0.06296	8.853	0.05657	0.06551	0.06680			
X As	-0.00199	75.23	-0.00304	-0.00027	-0.00266			
B	0.13361	0.348	0.13412	0.13322	0.13349			
Ba	0.01145	0.231	0.01148	0.01142	0.01146			
X Be	-0.00068	24.79	-0.00048	-0.00078	-0.00077			
Ca	21.06108	0.127	21.06109	21.08789	21.03427			
X Cd	0.00000	2403.	-0.00006	0.00024	-0.00021			
Co	0.00044	157.1	0.00031	0.00121	-0.00017			
X Cr	0.00017	108.7	0.00006	0.00038	0.00006			
X Cu	-0.00075	36.53	-0.00050	-0.00070	-0.00105			
Fe	-0.00622	166.5	-0.01371	0.00561	-0.01059			
K	7.34499	0.710	7.38769	7.28681	7.36047			
Mg	11.61956	0.124	11.62574	11.60300	11.62995			
X Mn	0.00038	9.938	0.00038	0.00042	0.00034			
Mo	0.00056	161.4	-0.00037	0.00062	0.00144			
Na	8.46910	0.798	8.52814	8.39538	8.48377			
X Ni	-0.00050	234.2	0.00051	-0.00180	-0.00022			
Pb	-0.00182	39.41	-0.00211	-0.00100	-0.00236	E		
X Sb	0.00132	142.0	0.00009	0.00039	0.00348			
X Se	0.00062	178.1	0.00030	0.00186	-0.00029			
Sn	0.00133	138.0	0.00158	0.00303	-0.00062			
Sr	1.26583	0.186	1.26724	1.26311	1.26715			
Ti	0.00019	20.95	0.00015	0.00023	0.00019			
Tl	0.00146	341.2	-0.00423	0.00356	0.00506	E		
V	-0.00028	167.5	-0.00043	0.00024	-0.00065			
Y	19821.33398	0.301	19878.00000	19759.00000	19827.00000			
X Zn	0.01594	3.021	0.01538	0.01625	0.01619			

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

JCFBA

07/15/96

19:23

Tube: 27 2538139
 **** 100-100.DF1.961905720001.8.

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
X Ag	-0.00012	244.1	-0.00043	-0.00009	0.00015		
X Al	0.05241	10.56	0.04650	0.05325	0.05749		
X As	-0.00209	67.57	-0.00359	-0.00190	-0.00078		
B	0.00764	7.029	0.00824	0.00720	0.00748		
Ba	0.00006	85.41	0.00000	0.00009	0.00009		
X Be	-0.00023	31.65	-0.00025	-0.00015	-0.00030		
Ca	-0.03474	33.55	-0.04318	-0.03962	-0.02144		
X Cd	-0.00006	165.7	0.00005	-0.00014	-0.00009		
Co	0.00011	311.0	-0.00009	-0.00008	0.00052		
X Cr	-0.00154	8.885	-0.00156	-0.00167	-0.00140		
X Cu	-0.00332	7.654	-0.00361	-0.00312	-0.00323		
Fe	0.00752	157.4	0.00923	-0.00508	0.01843		
K	0.09979	6.829	0.10154	0.09227	0.10556		
Mg	0.01283	23.20	0.00944	0.01503	0.01402		
X Mn	-0.00022	16.23	-0.00019	-0.00026	-0.00022		
Mo	0.00076	83.63	0.00058	0.00146	0.00023		
Na	0.03302	81.34	0.05917	0.00550	0.03439		
X Ni	-0.00054	78.52	-0.00100	-0.00018	-0.00042		
Pb	0.00006	2520.	0.00158	0.00035	-0.00174	e	
X Sb	0.00169	151.7	0.00217	-0.00108	0.00399		
X Se	0.00066	342.9	-0.00133	0.00018	0.00313		
Sn	-0.00157	30.66	-0.00163	-0.00203	-0.00106		
Sr	0.00030	18.51	0.00026	0.00028	0.00036		
Ti	0.00003	343.2	-0.00004	-0.00001	0.00016		
Tl	-0.00025	447.4	0.00106	-0.00089	-0.00093	e	
V	-0.00006	486.2	-0.00026	-0.00024	0.00030		
Y	20017.33398	0.251	19971.00000	20071.00000	20010.00000		
X Zn	0.00135	30.36	0.00152	0.00088	0.00165		

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AR305180

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Date: 28 2538140

07/15/96

19:28

3C302

***.100-100.DF1.961905720001.8.,

ELEM	AVG		INTEGRATIONS			REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3		
X Ag	0.00001	1435.	0.00018	0.00008	-0.00022	_____	_____
X Al	0.06136	9.954	0.06803	0.05999	0.05605	_____	_____
X As	0.00087	266.8	-0.00059	0.00355	-0.00034	_____	_____
B	0.10185	0.451	0.10213	0.10132	0.10209	_____	_____
Ba	0.00767	0.567	0.00771	0.00769	0.00762	_____	_____
X Be	-0.00076	57.24	-0.00119	-0.00078	-0.00032	_____	_____
Ca	210.87625	0.483	209.74005	211.17677	211.71192	_____	_____
X Cd	-0.00004	111.1	-0.00006	-0.00007	0.00001	_____	_____
Co	0.00076	42.82	0.00042	0.00078	0.00107	_____	_____
X Cr	-0.00074	73.24	-0.00023	-0.00068	-0.00132	_____	_____
X Cu	-0.00344	2.462	-0.00347	-0.00351	-0.00335	_____	_____
Fe	-0.02924	20.04	-0.03449	-0.02291	-0.03033	_____	_____
K	0.98252	0.741	0.99066	0.98030	0.97661	_____	_____
Mg	78.29286	0.125	78.38547	78.30278	78.19033	_____	_____
X Mn	0.00421	0.979	0.00417	0.00425	0.00420	_____	_____
Mo	0.00060	145.1	-0.00011	0.00034	0.00158	_____	_____
Na	3.50429	4.787	3.47601	3.68440	3.35248	_____	_____
X Ni	-0.00066	85.76	-0.00025	-0.00042	-0.00131	_____	_____
Pb	-0.00072	201.0	0.00093	-0.00134	-0.00176	E	_____
X Sb	0.00169	42.82	0.00137	0.00118	0.00253	_____	_____
X Se	-0.00009	2592.	0.00020	0.00211	-0.00258	_____	_____
Sn	0.00035	326.5	-0.00078	0.00152	0.00032	_____	_____
Sr	17.46054	0.109	17.47646	17.46572	17.43944	_____	_____
Ti	-0.00063	17.54	-0.00053	-0.00061	-0.00075	_____	_____
Tl	0.00193	287.0	0.00816	-0.00245	0.00009	E	_____
V	0.00012	141.4	0.00017	0.00028	-0.00007	_____	_____
Y	19607.33398	0.993	19447.00000	19551.00000	19824.00000	_____	_____
X Zn	0.00551	7.753	0.00535	0.00519	0.00600	_____	_____

AR305181

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 29 2538141 J C 242 07/15/96 19:33
 *** 100-100.DF1.961905720001.8

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			
			#1	#2	#3	REREAD REDIG
✓ Ag	0.00050	90.64	0.00086	0.00000	0.00064	_____
X Al	0.04288	14.32	0.04274	0.03682	0.04910	_____
X As	-0.00123	146.3	-0.00177	-0.00271	0.00078	_____
— B	0.19983	0.197	0.19967	0.19954	0.20028	_____
— Ba	0.03323	0.262	0.03321	0.03315	0.03332	_____
X Be	-0.00023	147.3	-0.00024	0.00011	-0.00057	_____
— Ca	45.28570	0.161	45.23901	45.24787	45.37022	_____
X Cd	-0.00009	46.04	-0.00006	-0.00014	-0.00007	_____
— Co	0.00064	184.5	0.00156	-0.00070	0.00108	_____
X Cr	-0.00082	28.48	-0.00105	-0.00058	-0.00085	_____
X Cu	-0.00264	8.022	-0.00255	-0.00248	-0.00288	_____
— Fe	-0.02681	38.26	-0.01654	-0.03706	-0.02685	_____
— K	0.59649	0.490	0.59982	0.59431	0.59534	_____
— Mg	17.02463	0.121	17.01290	17.01256	17.04843	_____
X Mn	0.06974	0.167	0.06975	0.06962	0.06986	_____
— Mo	0.00092	131.1	0.00140	-0.00045	0.00181	_____
— Na	2.76153	0.905	2.78281	2.73400	2.76779	_____
X Ni	-0.00061	60.30	-0.00095	-0.00021	-0.00067	_____
— Pb	-0.00046	141.2	0.00017	-0.00043	-0.00114	E _____
X Sb	0.00207	38.60	0.00156	0.00299	0.00165	_____
X Se	0.00006	1034.	-0.00052	0.00078	-0.00006	_____
— Sn	-0.00025	440.7	0.00037	0.00039	-0.00152	_____
— Sr	4.96789	0.170	4.95912	4.97601	4.96853	_____
— Ti	0.00006	126.3	0.00011	-0.00002	0.00010	_____
— Tl	0.00145	229.6	-0.00210	0.00195	0.00451	E _____
— V	-0.00018	137.8	-0.00007	-0.00046	0.00000	_____
— Y	20054.33398	0.182	20054.00000	20091.00000	20018.00000	_____
X Zn	0.00705	7.311	0.00705	0.00654	0.00757	_____

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 30 2538142 J C 205 07/15/96 19:37
 ***.100-100.DF1.961905720001.8..

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
X Ag	0.00035	63.13	0.00060	0.00028	0.00017			
X Al	0.04106	8.486	0.04471	0.04070	0.03776			
X As	-0.00236	27.73	-0.00299	-0.00242	-0.00168			
B	8.73143	0.171	8.71872	8.72769	8.74789			
Ba	0.03874	0.180	0.03882	0.03870	0.03871			
X Be	-0.00010	212.7	-0.00037	0.00003	0.00001			
Ca	57.85484	0.189	57.97537	57.76189	57.82725			
X Cd	0.00012	160.6	0.00033	-0.00005	0.00008			
Co	0.00026	319.1	0.00053	0.00095	-0.00068			
X Cr	0.00573	12.43	0.00651	0.00511	0.00557			
X Cu	-0.00235	14.07	-0.00244	-0.00198	-0.00262			
Fe	-0.04168	7.382	-0.03857	-0.04177	-0.04472			
K	0.78855	0.872	0.79291	0.78062	0.79212			
Mg	26.30734	0.062	26.32162	26.31116	26.28923			
X Mn	0.00027	23.31	0.00029	0.00020	0.00032			
Mo	0.00086	48.31	0.00038	0.00114	0.00106			
Na	33.67849	0.125	33.62983	33.70578	33.69985			
X Ni	-0.00052	170.4	0.00042	-0.00065	-0.00135			
Pb	0.00002	5083.	-0.00111	0.00084	0.00033	E		
X Sb	0.00340	40.99	0.00299	0.00226	0.00496			
X Se	0.00519	32.58	0.00626	0.00324	0.00606			
Sn	0.00016	752.3	-0.00089	-0.00013	0.00153			
Sr	3.62312	0.012	3.62280	3.62294	3.62363			
Ti	-0.00004	382.9	0.00013	-0.00018	-0.00007			
Tl	0.00021	2166.	0.00399	-0.00484	0.00147	E		
V	0.00039	143.5	0.00071	0.00073	-0.00026			
Y	20160.33398	0.288	20094.00000	20184.00000	20203.00000			
X Zn	0.01047	3.913	0.01068	0.01000	0.01074			

AR305183

LANCASTER LABORATORIES

INSTRUMENT ID: 05935

Run Name: 9619705162

Tube: 31 CRI

07/15/96

19:42

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		
			#1	#2	#3
Ag	0.02080	3.701	0.02151	0.01998	0.02091
Al	0.03806	2.137	0.03800	0.03889	0.03727
As	0.01855	13.83	0.01790	0.01636	0.02137
B	0.03920	21.76	0.04857	0.03717	0.03187
Ba	0.00008	48.65	0.00010	0.00003	0.00010
Be	0.01034	1.042	0.01026	0.01046	0.01030
Ca	-0.03951	1.152	-0.03904	-0.03954	-0.03995
Cd	0.00989	1.836	0.01004	0.00993	0.00968
Co	0.10226	0.331	0.10256	0.10189	0.10233
Cr	0.01913	3.442	0.01863	0.01888	0.01987
Cu	0.04820	0.317	0.04808	0.04816	0.04837
Fe	0.01442	57.69	0.02158	0.00529	0.01638
K	0.09595	3.278	0.09824	0.09236	0.09723
Mg	0.01637	21.56	0.02027	0.01338	0.01546
Mn	0.03038	0.155	0.03033	0.03039	0.03043
Mo	0.00031	170.2	0.00069	0.00054	-0.00029
Na	0.09581	15.93	0.08880	0.11333	0.08531
Ni	0.08053	1.594	0.07906	0.08110	0.08143
Pb	0.00516	33.09	0.00646	0.00579	0.00322
Sb	0.12730	1.033	0.12874	0.12701	0.12616
Se	0.01102	3.961	0.01053	0.01116	0.01136
Sn	0.00020	272.8	-0.00002	0.00083	-0.00020
Sr	0.00074	4.698	0.00078	0.00071	0.00072
Ti	0.00004	421.7	0.00017	-0.00015	0.00010
Tl	0.01900	5.685	0.01824	0.02024	0.01853
V	0.10157	0.150	0.10154	0.10173	0.10143
Y	20409.66601	0.151	20445.00000	20388.00000	20396.00000
Zn	0.04160	1.074	0.04198	0.04111	0.04171

AR305184

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LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 32 ICSA

07/15/96

19:47

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
__Ag	-0.00037	105.3	-0.00011	-0.00018	-0.00083			
__Al	513.65148	0.127	514.40032	513.19415	513.36004			
__As	-0.00193	62.38	-0.00141	-0.00331	-0.00107			
__B	0.02357	4.015	0.02458	0.02344	0.02270			
__Ba	0.00886	0.372	0.00888	0.00888	0.00883			
__Be	-0.00350	2.540	-0.00360	-0.00349	-0.00342			
__Ca	511.34881	0.221	512.31274	511.63562	510.09808			
__Cd	-0.00070	78.46	-0.00007	-0.00094	-0.00109			
__Co	0.00115	35.90	0.00155	0.00072	0.00117			
__Cr	-0.00195	15.29	-0.00216	-0.00161	-0.00207			
__Cu	-0.00558	3.197	-0.00551	-0.00545	-0.00578			
__Fe	208.96995	0.125	209.22961	208.97578	208.70446			
__K	0.11739	3.714	0.11694	0.11327	0.12196			
__Mg	540.91607	0.184	541.93670	539.94195	540.86962			
__Mn	0.00599	2.959	0.00586	0.00619	0.00591			
__Mo	0.00102	71.06	0.00187	0.00064	0.00057			
__Na	0.13427	57.37	0.08088	0.22259	0.09933			
__Ni	0.00133	71.55	0.00085	0.00071	0.00243			
__Pb	-0.00893	15.40	-0.00877	-0.00764	-0.01037			
__Sb	0.01288	7.285	0.01384	0.01283	0.01197			
__Se	-0.00061	220.9	-0.00219	0.00020	0.00013			
__Sn	0.00268	141.3	0.00657	-0.00100	0.00248			
__Sr	0.02143	0.474	0.02154	0.02140	0.02134			
__Ti	-0.00134	1.788	-0.00137	-0.00132	-0.00133			
__Tl	0.04006	14.56	0.03402	0.04567	0.04050			
__V	0.01186	2.268	0.01164	0.01216	0.01178			
__Y	18354.00000	0.146	18336.00000	18385.00000	18341.00000			
__Zn	0.00625	12.18	0.00694	0.00543	0.00638			

AR305185

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LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 33 ICSAB

07/15/96

19:52

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		#3	REREAD REDIG	
			#1	#2			
Ag	0.22366	0.232	0.22317	0.22359	0.22421	_____	_____
Al	513.08905	0.116	512.86749	512.63592	513.76367	_____	_____
As	0.10512	1.349	0.10676	0.10427	0.10433	_____	_____
B	0.03286	3.116	0.03404	0.03219	0.03235	_____	_____
Ba	0.55258	0.033	0.55258	0.55240	0.55276	_____	_____
Be	0.50009	0.161	0.50044	0.49916	0.50065	_____	_____
Ca	513.25537	0.218	514.00231	511.96270	513.80108	_____	_____
Cd	0.99332	0.301	0.99532	0.98987	0.99477	_____	_____
Co	0.51769	0.143	0.51720	0.51733	0.51855	_____	_____
Cr	0.52518	0.337	0.52605	0.52314	0.52634	_____	_____
Cu	0.57329	0.177	0.57220	0.57345	0.57422	_____	_____
Fe	209.73440	0.149	209.83866	209.38264	209.98188	_____	_____
K	0.11798	5.505	0.12528	0.11283	0.11583	_____	_____
Mg	540.50860	0.165	539.87402	540.11968	541.53210	_____	_____
Mn	0.52883	0.170	0.52922	0.52780	0.52947	_____	_____
Mo	0.00080	133.6	-0.00021	0.00069	0.00191	_____	_____
Na	0.18840	13.36	0.16049	0.19529	0.20943	_____	_____
Ni	1.02306	0.251	1.02116	1.02204	1.02600	_____	_____
Pb	0.04284	2.946	0.04417	0.04269	0.04166	_____	_____
Sb	0.65780	0.467	0.65986	0.65427	0.65928	_____	_____
Se	0.05294	2.009	0.05182	0.05394	0.05305	_____	_____
Sn	0.00357	97.34	0.00425	-0.00019	0.00665	_____	_____
Sr	0.02127	0.016	0.02127	0.02128	0.02127	_____	_____
Ti	-0.00138	12.99	-0.00143	-0.00153	-0.00118	_____	_____
Tl	0.13714	5.782	0.14112	0.14229	0.12801	_____	_____
V	0.53393	0.144	0.53391	0.53317	0.53471	_____	_____
Y	18496.66601	0.256	18525.00000	18523.00000	18442.00000	_____	_____
Zn	0.96284	0.057	0.96221	0.96323	0.96309	_____	_____

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05935

Tube: 34 CCV

07/15/96

19:57

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	0.51576	0.283	0.51738	0.51536	0.51454			
Al	25.28169	0.158	25.27579	25.32443	25.24486			
As	0.51227	1.102	0.51493	0.50578	0.51610			
B	0.53137	0.140	0.53067	0.53216	0.53127			
Ba	0.51606	0.177	0.51666	0.51651	0.51501			
Be	0.50608	0.153	0.50686	0.50531	0.50606			
Ca	24.94702	0.211	24.96071	24.88871	24.99164			
Cd	0.51056	0.109	0.51106	0.50996	0.51067			
Co	0.51385	0.286	0.51506	0.51222	0.51428			
Cr	0.52239	0.274	0.52269	0.52083	0.52365			
Cu	0.51604	0.273	0.51640	0.51723	0.51448			
Fe	25.02407	0.218	25.05109	24.96125	25.05986			
K	26.45758	0.155	26.41342	26.49470	26.46463			
Mg	25.09184	0.168	25.11531	25.11709	25.04312			
Mn	0.51934	0.196	0.51998	0.51816	0.51987			
Mo	0.51845	0.399	0.51623	0.52032	0.51881			
Na	26.08870	0.239	26.14340	26.02064	26.10208			
Ni	0.52040	0.082	0.52021	0.52089	0.52010			
Pb	0.51144	0.826	0.51585	0.51107	0.50742			
Sb	0.51977	1.070	0.52009	0.52517	0.51406			
Se	0.51112	0.299	0.51285	0.51058	0.50994			
Sn	0.50203	0.395	0.50390	0.50224	0.49994			
Sr	0.50993	0.187	0.51085	0.50998	0.50895			
Ti	0.52189	0.121	0.52261	0.52163	0.52142			
Tl	0.52295	0.779	0.52762	0.52007	0.52117			
V	0.50118	0.183	0.50224	0.50055	0.50075			
Y	19934.33398	0.307	19899.00000	19899.00000	20005.00000			
Zn	0.50191	0.426	0.50290	0.49946	0.50338			

AR305187

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 35 CCB

07/15/96

20:02

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			
			#1	#2	#3	REREAD REDIG
Ag	0.00002	426.1	-0.00007	0.00000	0.00014	
Al	0.07576	26.13	0.09831	0.06779	0.06119	
As	-0.00371	50.69	-0.00349	-0.00195	-0.00569	
B	0.00756	14.21	0.00879	0.00682	0.00706	
Ba	0.00012	40.27	0.00018	0.00011	0.00008	
Be	0.00012	74.64	0.00019	0.00001	0.00017	
Ca	-0.01508	130.7	0.00726	-0.02248	-0.03002	
Cd	-0.00017	24.48	-0.00012	-0.00020	-0.00018	
Co	0.00006	340.4	-0.00007	0.00034	-0.00006	
Cr	-0.00147	22.43	-0.00112	-0.00178	-0.00151	
Cu	-0.00268	7.669	-0.00282	-0.00278	-0.00244	
Fe	0.02619	57.40	0.04281	0.02222	0.01354	
K	0.10175	2.299	0.10425	0.09961	0.10140	
Mg	0.04532	41.86	0.06659	0.03921	0.03015	
Mn	-0.00026	12.67	-0.00024	-0.00030	-0.00024	
Mo	0.00031	224.6	0.00112	-0.00008	-0.00010	
Na	0.05719	57.35	0.09318	0.02896	0.04944	
Ni	-0.00163	42.27	-0.00114	-0.00242	-0.00132	
Pb	-0.00001	1363.	-0.00028	0.00013	0.00010	
Sb	0.00269	31.55	0.00278	0.00179	0.00348	
Se	0.00088	129.3	0.00220	0.00020	0.00024	
Sn	-0.00067	105.7	-0.00141	-0.00062	0.00001	
Sr	0.00010	48.71	0.00016	0.00008	0.00007	
Ti	0.00005	88.30	0.00009	0.00005	0.00000	
Tl	0.00288	149.3	0.00781	0.00098	-0.00015	
V	-0.00017	152.5	0.00001	-0.00048	-0.00006	
Y	20306.00000	0.183	20263.00000	20328.00000	20327.00000	
Zn	-0.00004	457.4	0.00012	-0.00024	0.00000	

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AR305188

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 36 2538143 JCRD 2 07/15/96 20:07
 ***.100-100.DF1.961905720001.8..

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
X Ag	0.00032	17.26	0.00027	0.00038	0.00030			
X Al	0.06099	4.789	0.06436	0.05913	0.05949			
X As	-0.00030	897.4	-0.00190	0.00288	-0.00190			
B	0.58530	0.588	0.58203	0.58496	0.58889			
Ba	0.04054	0.145	0.04049	0.04052	0.04061			
X Be	-0.00045	48.06	-0.00043	-0.00024	-0.00067			
Ca	58.20230	0.160	58.10684	58.29293	58.20713			
X Cd	0.00022	91.01	0.00045	0.00010	0.00010			
Co	0.00087	83.41	0.00170	0.00032	0.00059			
X Cr	-0.00048	151.7	0.00016	-0.00034	-0.00128			
X Cu	0.01141	1.845	0.01151	0.01155	0.01117			
Fe	-0.01061	34.33	-0.00661	-0.01150	-0.01374			
K	1.20609	0.608	1.20938	1.21120	1.19769			
Mg	15.43914	0.059	15.43634	15.43160	15.44947			
X Mn	-0.00007	101.2	0.00000	-0.00008	-0.00013			
Mo	-0.00020	301.8	-0.00045	-0.00066	0.00050			
Na	10.47483	0.362	10.48567	10.43261	10.50622			
X Ni	0.00279	19.29	0.00239	0.00341	0.00259			
Pb	0.00051	262.6	0.00207	-0.00013	-0.00039	E		
X Sb	0.00261	66.50	0.00075	0.00289	0.00418			
X Se	0.00069	190.5	0.00192	0.00085	-0.00070			
Sn	0.00037	253.6	-0.00065	0.00054	0.00123			
Sr	0.76058	0.080	0.76105	0.75988	0.76081			
Ti	0.00006	95.89	0.00001	0.00004	0.00014			
Tl	0.00273	115.5	-0.00090	0.00485	0.00426	E		
V	0.00029	113.3	0.00068	0.00011	0.00009			
Y	20052.33398	0.168	20083.00000	20058.00000	20016.00000			
X Zn	0.01638	1.895	0.01648	0.01663	0.01603			

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 37 2538144 J C249

07/15/96

20:12

*** 100-100.DF1.961905720001.8.

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
X Ag	0.00000	6397.	-0.00024	0.00005	0.00020		
X Al	0.05522	3.518	0.05526	0.05326	0.05715		
X As	-0.00187	147.1	-0.00504	-0.00041	-0.00015		
B	1.04501	0.245	1.04248	1.04761	1.04493		
Ba	0.05406	0.208	0.05409	0.05415	0.05394		
X Be	-0.00049	14.91	-0.00041	-0.00050	-0.00055		
Ca	38.61020	0.032	38.62222	38.59715	38.61124		
X Cd	0.00006	160.6	0.00016	-0.00003	0.00006		
Co	-0.00007	809.3	-0.00065	-0.00009	0.00052		
X Cr	-0.00062	161.2	0.00001	-0.00179	-0.00010		
X Cu	-0.00280	17.81	-0.00252	-0.00338	-0.00250		
Fe	0.05285	11.00	0.05823	0.05951	0.07081		
K	0.48170	1.502	0.49005	0.47783	0.47722		
Mg	11.80901	0.062	11.81055	11.81555	11.80094		
X Mn	0.05009	0.208	0.05001	0.05005	0.05021		
Mo	0.00040	187.1	-0.00045	0.00095	0.00070		
Na	6.30315	1.907	6.30603	6.18151	6.42192		
X Ni	0.00074	91.27	0.00001	0.00086	0.00136		
Pb	-0.00050	203.9	-0.00033	-0.00162	0.00043	E	
X Sb	0.00097	71.06	0.00019	0.00153	0.00119		
X Se	0.00028	222.4	0.00029	0.00091	-0.00035		
Sn	-0.00017	468.6	0.00047	0.00008	-0.00107		
Sr	0.63227	0.190	0.63301	0.63293	0.63088		
Ti	-0.00002	364.5	-0.00005	-0.00012	0.00008		
Tl	-0.00029	606.4	0.00072	-0.00239	0.00077	E	
V	0.00009	436.9	0.00003	-0.00028	0.00053		
Y	19977.33398	0.248	19921.00000	20015.00000	19996.00000		
X Zn	0.00869	7.134	0.00813	0.00859	0.00936		

AR305190

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 38 2538145 T C3009 07/15/96 20:17
***,100-100.DF1,961905720001,8.,

ELEM	AVG		#1	INTEGRATIONS			REREAD	REDIG
	(ppm)	%RSD		#2	#3			
X Ag	-0.00013	137.3	0.00006	-0.00030	-0.00018			
X Al	0.05545	17.92	0.06664	0.04765	0.05207			
X As	-0.00297	47.21	-0.00375	-0.00381	-0.00135			
B	0.16524	1.105	0.16692	0.16551	0.16330			
Ba	0.01141	0.522	0.01147	0.01136	0.01139			
X Be	-0.00041	132.8	-0.00101	-0.00025	0.00003			
Ca	300.04177	0.346	298.90682	300.95010	300.26837			
X Cd	0.00004	123.2	0.00057	0.00000	-0.00044			
Co	0.00004	120.2	0.00000	0.00009	0.00003			
X Cr	-0.00079	130.1	0.00005	-0.00048	-0.00195			
X Cu	0.00111	42.98	0.00060	0.00117	0.00155			
Fe	-0.00560	162.3	-0.00035	-0.00034	-0.01612			
K	1.96960	0.561	1.98175	1.96015	1.96691			
Mg	105.06105	0.353	105.48963	104.86791	104.82562			
X Mn	0.00500	1.804	0.00503	0.00507	0.00489			
Mo	0.00055	119.1	-0.00020	0.00102	0.00084			
Na	54.49381	0.627	54.88500	54.25175	54.34469			
X Ni	0.00017	500.6	-0.00018	0.00114	-0.00044			
Pb	-0.00084	152.7	0.00036	-0.00070	-0.00220	E		
X Sb	0.00068	137.8	0.00175	-0.00001	0.00030			
X Se	0.00001	6742.	0.00123	-0.00083	-0.00035			
Sn	0.00136	39.70	0.00076	0.00181	0.00153			
Sr	13.15485	0.221	13.18844	13.13563	13.14046			
Ti	-0.00077	11.32	-0.00087	-0.00070	-0.00073			
Tl	0.00118	49.09	0.00070	0.00182	0.00101	E		
V	0.00017	427.2	0.00072	0.00045	-0.00066			
Y	19692.33398	1.352	19392.00000	19785.00000	19900.00000			
X Zn	0.01640	2.990	0.01696	0.01610	0.01613			

AR305191

LANCASTER LABORATORIES

INSTRUMENT ID: 05935

Run Name: 9619705T62

Tube: 39 2538146 JCA12
 ***.100-100.DF1.961905720001.8.

07/15/96 20:22

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			
			#1	#2	#3	REREAD REDIG
XAg	0.00006	1111.	0.00040	0.00048	-0.00071	
XAl	0.03800	24.61	0.04708	0.03851	0.02840	
XAs	-0.00159	132.6	0.00034	-0.00128	-0.00383	
B	0.18478	0.980	0.18587	0.18578	0.18269	
Ba	0.01690	0.913	0.01703	0.01693	0.01673	
XBe	0.00015	173.2	-0.00007	0.00009	0.00046	
Ca	309.46826	0.431	309.63653	310.71194	308.05627	
XCd	-0.00021	6.773	-0.00021	-0.00020	-0.00023	
Co	0.00084	98.63	0.00003	0.00170	0.00080	
XCr	-0.00063	34.50	-0.00073	-0.00038	-0.00077	
XCu	-0.00179	5.060	-0.00188	-0.00179	-0.00170	
Fe	0.34644	6.559	0.35632	0.36255	0.32044	
K	2.56905	0.970	2.59513	2.54547	2.56655	
Mg	106.31353	0.446	106.79335	106.30412	105.84313	
XMn	0.01596	0.367	0.01601	0.01597	0.01590	
Mo	0.00019	365.0	0.00084	0.00033	-0.00058	
Na	136.88294	0.490	137.62031	136.30603	136.72251	
XNi	-0.00022	419.8	0.00030	-0.00131	0.00033	
Pb	-0.00187	35.21	-0.00123	-0.00255	-0.00183	E
XSb	0.00133	69.56	0.00241	0.00077	0.00082	
XSe	0.00072	115.8	0.00011	0.00036	0.00167	
Sn	-0.00101	200.1	-0.00054	-0.00325	0.00073	
Sr	15.16756	0.375	15.23044	15.15283	15.11942	
Ti	-0.00084	15.76	-0.00081	-0.00071	-0.00098	
Tl	-0.00316	127.4	-0.00683	-0.00383	0.00116	E
V	0.00000	2236.	0.00007	-0.00015	0.00009	
Y	19948.33398	0.584	19833.00000	19946.00000	20066.00000	
XZn	0.01646	2.080	0.01685	0.01625	0.01627	

AR305192

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 40 2538147 *JCTR I* 07/15/96 20:27
***.100-100.DF1.961905720001.8..

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
X Ag	0.00018	181.2	0.00006	-0.00007	0.00057		
X Al	0.03154	6.602	0.03368	0.02951	0.03144		
X As	-0.00155	157.0	0.00020	-0.00053	-0.00435		
B	0.00945	6.652	0.01005	0.00880	0.00951		
Ba	0.00006	73.21	0.00006	0.00001	0.00011		
X Be	0.00025	17.74	0.00024	0.00029	0.00020		
Ca	-0.00309	242.2	-0.00952	-0.00491	0.00514		
X Cd	-0.00020	111.9	-0.00044	-0.00018	0.00001		
Co	0.00029	195.9	-0.00034	0.00047	0.00074		
X Cr	-0.00078	77.38	-0.00058	-0.00030	-0.00147		
X Cu	-0.00237	12.57	-0.00264	-0.00242	-0.00205		
Fe	0.01844	85.60	0.03549	0.00432	0.01551		
K	0.09636	4.572	0.09204	0.09618	0.10085		
Mg	0.02573	7.948	0.02370	0.02572	0.02779		
X Mn	-0.00025	19.46	-0.00027	-0.00030	-0.00020		
Mo	0.00066	33.88	0.00086	0.00072	0.00041		
Na	0.12009	65.83	0.08601	0.21048	0.06377		
X Ni	-0.00147	80.18	-0.00282	-0.00056	-0.00105		
Pb	-0.00241	45.88	-0.00183	-0.00368	-0.00171	<i>E</i>	
X Sb	0.00230	34.62	0.00161	0.00317	0.00212		
X Se	-0.00071	271.1	-0.00048	-0.00277	0.00110		
Sn	0.00100	42.85	0.00058	0.00098	0.00144		
Sr	0.00170	10.06	0.00151	0.00174	0.00185		
Ti	0.00004	81.97	0.00003	0.00001	0.00009		
Tl	0.00150	383.5	-0.00395	0.00094	0.00751	<i>E</i>	
V	0.00010	406.9	-0.00038	0.00036	0.00034		
Y	20241.00000	0.206	20194.00000	20255.00000	20274.00000		
X Zn	0.00233	20.13	0.00213	0.00199	0.00286		

AR305193

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 41 2538234

JCF BYB

07/15/96

20:32

*** 100-100.DF1.961905720001.8.,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
X Ag	0.00016	148.4	0.00041	0.00016	-0.00008	_____	_____
X Al	0.03502	9.967	0.03682	0.03724	0.03100	_____	_____
X As	-0.00192	19.71	-0.00159	-0.00233	-0.00183	_____	_____
B	0.00841	3.421	0.00872	0.00815	0.00836	_____	_____
Ba	0.00011	9.864	0.00009	0.00011	0.00011	_____	_____
X Be	-0.00007	88.00	-0.00010	-0.00011	0.00000	_____	_____
Ca	-0.02772	8.992	-0.02613	-0.02644	-0.03059	_____	_____
X Cd	-0.00024	29.71	-0.00017	-0.00023	-0.00032	_____	_____
Co	0.00009	621.9	0.00018	0.00067	-0.00055	_____	_____
X Cr	-0.00115	7.851	-0.00120	-0.00120	-0.00104	_____	_____
X Cu	-0.00256	3.491	-0.00255	-0.00248	-0.00266	_____	_____
Fe	0.02619	38.78	0.02941	0.03435	0.01481	_____	_____
K	0.10098	6.176	0.10790	0.09579	0.09925	_____	_____
Mg	0.01819	25.46	0.01758	0.02309	0.01389	_____	_____
X Mn	-0.00026	25.19	-0.00018	-0.00030	-0.00030	_____	_____
Mo	0.00015	410.0	0.00037	-0.00055	0.00063	_____	_____
Na	0.09776	74.10	0.17881	0.07520	0.03928	_____	_____
X Ni	-0.00101	113.1	0.00006	-0.00089	-0.00221	_____	_____
Pb	-0.00122	60.60	-0.00203	-0.00109	-0.00055	E	_____
X Sb	0.00207	78.98	0.00220	0.00364	0.00037	_____	_____
X Se	0.00118	46.67	0.00094	0.00182	0.00080	_____	_____
Sn	0.00033	330.6	0.00157	-0.00051	-0.00006	_____	_____
Sr	0.00078	10.44	0.00082	0.00084	0.00069	_____	_____
Ti	0.00007	189.3	0.00023	0.00005	-0.00005	_____	_____
Tl	-0.00029	745.9	0.00107	-0.00288	0.00090	E	_____
V	-0.00016	299.1	0.00033	-0.00018	-0.00064	_____	_____
Y	20095.00000	0.492	19988.00000	20114.00000	20183.00000	_____	_____
X Zn	0.00038	117.6	0.00077	-0.00011	0.00050	_____	_____

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AR305194

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 42 2538235 JC210 07/15/96 20:37
 ***.100-100,DF1.961905720001.8..

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
X Ag	-0.00155	29.66	-0.00207	-0.00141	-0.00118		
X Al	0.05876	6.224	0.06143	0.05459	0.06026		
X As	0.01989	12.54	0.01878	0.02275	0.01815		
B	16.33050	0.315	16.37874	16.27618	16.33658		
Ba	0.03900	0.288	0.03912	0.03890	0.03897		
X Be	0.00042	22.53	0.00032	0.00051	0.00043		
Ca	2.73989	0.367	2.73792	2.73093	2.75081		
X Cd	0.00011	103.5	0.00013	-0.00001	0.00021		
Co	0.07793	1.521	0.07852	0.07657	0.07872		
X Cr	0.00348	3.440	0.00347	0.00361	0.00337		
X Cu	0.00332	9.186	0.00297	0.00345	0.00353		
Fe	0.20152	4.014	0.19233	0.20465	0.20757		
K	3.59911	0.492	3.61367	3.60427	3.57939		
Mg	7.11335	0.477	7.13072	7.07423	7.13510		
X Mn	0.00380	0.781	0.00377	0.00381	0.00382		
Mo	0.05661	1.168	0.05737	0.05618	0.05627		
Na	1245.32580	0.258	1248.82958	1242.48193	1244.66589		
X Ni	0.23657	0.229	0.23596	0.23700	0.23675		
Pb	0.00000	18398	-0.00128	0.00082	0.00047	E	
X Sb	0.00198	25.25	0.00195	0.00250	0.00150		
X Se	0.00061	174.3	0.00130	-0.00062	0.00116		
Sn	0.00247	29.31	0.00240	0.00324	0.00179		
Sr	0.39654	0.442	0.39846	0.39502	0.39614		
Ti	0.00164	9.897	0.00146	0.00176	0.00171		
Tl	0.00671	55.09	0.00245	0.00857	0.00910	E	
V	0.00380	3.876	0.00372	0.00398	0.00372		
Y	20131.33398	0.570	20032.00000	20257.00000	20105.00000		
X Zn	0.00797	5.912	0.00797	0.00750	0.00844		

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AR305195

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 43 2538236 J Can 07/15/96 20:42
 ***100-100.DF1.961905720001.8..

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
X Ag	-0.00390	4.184	-0.00381	-0.00409	-0.00381			
X Al	0.09338	2.161	0.09252	0.09568	0.09193			
X As	0.47683	0.179	0.47781	0.47624	0.47644			
B	0.11369	13.50	0.13012	0.11127	0.09969			
Ba	0.09382	0.236	0.09359	0.09384	0.09404			
X Be	0.00065	11.97	0.00059	0.00061	0.00073			
Ca	17.72931	0.404	17.77469	17.76659	17.64665			
X Cd	0.00013	66.74	0.00022	0.00004	0.00012			
Co	0.66430	0.257	0.66426	0.66603	0.66261			
X Cr	0.00735	7.620	0.00799	0.00701	0.00704			
X Cu	0.00146	23.69	0.00115	0.00139	0.00184			
Fe	0.40235	3.019	0.40618	0.41212	0.38874			
K	7.41192	1.259	7.32580	7.39878	7.51117			
Mg	105.19135	0.276	105.32796	105.38865	104.85742			
X Mn	0.00389	3.569	0.00405	0.00384	0.00380			
Mo	0.03365	1.369	0.03334	0.03343	0.03418			
Na	1966.95178	0.169	1963.09985	1968.91589	1968.83947			
X Ni	0.68387	0.350	0.68663	0.68229	0.68269			
Pb	0.00297	58.59	0.00499	0.00208	0.00186	E		
X Sb	-0.00087	183.3	-0.00206	0.00094	-0.00150			
X Se	0.01512	4.108	0.01574	0.01450	0.01511			
Sn	0.00827	3.246	0.00854	0.00829	0.00800			
Sr	1.28546	0.179	1.28292	1.28607	1.28740			
Ti	0.00817	1.989	0.00809	0.00836	0.00806			
Tl	0.00144	139.4	0.00012	0.00044	0.00376	E		
V	0.01854	1.097	0.01877	0.01844	0.01840			
Y	19687.00000	0.691	19583.00000	19637.00000	19841.00000			
X Zn	0.01095	4.725	0.01106	0.01141	0.01039			

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AR305196

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 44 2538237 *JC406* 07/15/96 20:47
 ****.100-100.DF1.961905720001.8..

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REOIG
			#1	#2	#3			
X Ag	-0.00002	907.7	-0.00030	0.00018	0.00003	_____	_____	
X Al	0.03382	32.65	0.02112	0.03910	0.04123	_____	_____	
X As	-0.00204	5.488	-0.00193	-0.00216	-0.00203	_____	_____	
__ B	28.00483	1.576	27.50636	28.16195	28.34616	_____	_____	
__ Ba	0.07256	1.391	0.07140	0.07298	0.07328	_____	_____	
X Be	-0.00010	532.0	0.00055	-0.00043	-0.00044	_____	_____	
__ Ca	73.94281	1.544	72.62465	74.57560	74.62816	_____	_____	
X Cd	0.00039	16.44	0.00046	0.00033	0.00039	_____	_____	
__ Co	0.00023	63.87	0.00008	0.00024	0.00038	_____	_____	
X Cr	-0.00083	27.94	-0.00101	-0.00092	-0.00057	_____	_____	
X Cu	0.00331	11.07	0.00372	0.00301	0.00321	_____	_____	
__ Fe	-0.04728	45.11	-0.05214	-0.02394	-0.06577	_____	_____	
__ K	0.89587	2.212	0.87301	0.90620	0.90839	_____	_____	
__ Mg	32.30089	1.453	31.76430	32.50215	32.63621	_____	_____	
X Mn	0.00174	8.451	0.00157	0.00183	0.00183	_____	_____	
__ Mo	0.00169	48.73	0.00117	0.00125	0.00264	_____	_____	
__ Na	31.95783	0.749	31.68312	32.06768	32.12269	_____	_____	
X Ni	0.00026	153.5	0.00053	-0.00020	0.00045	_____	_____	
__ Pb	-0.00109	135.4	-0.00156	0.00056	-0.00229	<u>E</u> _____	_____	
X Sb	0.00259	77.65	0.00028	0.00352	0.00397	_____	_____	
X Se	0.00147	52.94	0.00237	0.00106	0.00098	_____	_____	
__ Sn	0.00098	41.90	0.00109	0.00053	0.00133	_____	_____	
__ Sr	4.56540	1.251	4.50065	4.58677	4.60878	_____	_____	
__ Ti	-0.00021	104.4	-0.00035	0.00004	-0.00032	_____	_____	
__ Tl	0.00310	68.57	0.00557	0.00189	0.00186	<u>E</u> _____	_____	
__ V	0.00006	160.5	-0.00002	0.00004	0.00018	_____	_____	
__ Y	20071.33398	1.594	20440.00000	19908.00000	19866.00000	_____	_____	
X Zn	0.01817	4.131	0.01741	0.01891	0.01818	_____	_____	

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 45 CCV

07/15/96

20:52

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.52169	0.357	0.52056	0.52384	0.52067		
Al	25.26424	0.393	25.22804	25.37674	25.18794		
As	0.52183	0.893	0.52300	0.52580	0.51670		
B	0.64196	4.123	0.66918	0.64039	0.61631		
Ba	0.51504	0.413	0.51411	0.51747	0.51353		
Be	0.51905	0.381	0.51832	0.52128	0.51753		
Ca	25.45108	0.317	25.37299	25.53431	25.44594		
Cd	0.52107	0.434	0.52041	0.52358	0.51920		
Co	0.52242	0.390	0.52203	0.52463	0.52061		
Cr	0.53044	0.382	0.52960	0.53275	0.52896		
Cu	0.51986	0.560	0.51875	0.52316	0.51766		
Fe	25.41585	0.261	25.35206	25.48461	25.41088		
K	26.42095	0.164	26.42619	26.46148	26.37518		
Mg	25.37637	0.474	25.31877	25.51467	25.29568		
Mn	0.52578	0.377	0.52448	0.52806	0.52479		
Mo	0.52663	0.324	0.52466	0.52761	0.52763		
Na	26.48341	0.492	26.48311	26.61398	26.35314		
Ni	0.52491	0.583	0.52708	0.52623	0.52141		
Pb	0.51650	0.423	0.51716	0.51828	0.51406		
Sb	0.52659	0.617	0.52389	0.53020	0.52567		
Se	0.51665	0.773	0.51235	0.52025	0.51735		
Sn	0.51156	0.579	0.51428	0.51200	0.50840		
Sr	0.50894	0.368	0.50777	0.51111	0.50795		
Ti	0.52589	0.433	0.52452	0.52852	0.52463		
Tl	0.52672	1.501	0.52672	0.53464	0.51881		
V	0.50709	0.220	0.50662	0.50836	0.50627		
Y	19944.33398	0.447	20015.00000	19844.00000	19974.00000		
Zn	0.52172	0.221	0.52042	0.52211	0.52263		

AR305198

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 46 CCB

07/15/96

20:57

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00063	9.858	0.00067	0.00056	0.00067		
Al	0.02957	10.47	0.03310	0.02833	0.02729		
As	-0.00109	224.7	0.00159	-0.00320	-0.00165		
B	0.04617	13.55	0.05281	0.04533	0.04038		
Ba	0.00022	25.64	0.00029	0.00019	0.00019		
Be	-0.00028	54.18	-0.00031	-0.00012	-0.00043		
Ca	-0.03948	13.86	-0.03333	-0.04131	-0.04380		
Cd	0.00004	772.1	0.00022	0.00022	-0.00032		
Co	0.00023	89.99	0.00018	0.00046	0.00005		
Cr	-0.00071	116.5	-0.00010	-0.00038	-0.00167		
Cu	-0.00230	5.085	-0.00217	-0.00237	-0.00236		
Fe	0.02391	26.37	0.03083	0.01848	0.02243		
K	0.10533	10.24	0.11770	0.10041	0.09786		
Mg	0.02222	19.37	0.02675	0.02174	0.01818		
Mn	-0.00017	101.8	-0.00001	-0.00013	-0.00037		
Mo	0.00079	79.03	0.00150	0.00052	0.00034		
Na	0.49655	35.74	0.69033	0.45742	0.34190		
Ni	-0.00080	8.522	-0.00088	-0.00076	-0.00076		
Pb	0.00113	129.8	-0.00056	0.00198	0.00199		
Sb	0.00316	23.26	0.00287	0.00261	0.00399		
Se	0.00165	51.55	0.00084	0.00158	0.00254		
Sn	-0.00042	95.72	-0.00012	-0.00025	-0.00087		
Sr	0.00045	46.97	0.00068	0.00041	0.00026		
Ti	0.00025	32.07	0.00029	0.00030	0.00016		
Tl	0.00265	35.05	0.00196	0.00371	0.00229		
V	0.00025	350.5	0.00065	0.00085	-0.00075		
Y	20058.66601	0.205	20014.00000	20067.00000	20095.00000		
Zn	0.00021	88.34	0.00000	0.00025	0.00038		

AR305199

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 47 CRI

07/15/96

21:02

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.02062	2.124	0.02011	0.02088	0.02086		
Al	0.02262	20.61	0.01807	0.02740	0.02239		
As	0.01846	11.47	0.01831	0.02064	0.01641		
B	0.02984	3.344	0.03065	0.03015	0.02872		
Ba	0.00012	62.61	0.00003	0.00018	0.00016		
Be	0.01029	2.595	0.01060	0.01014	0.01014		
Ca	-0.04356	4.609	-0.04536	-0.04139	-0.04394		
Cd	0.01011	1.412	0.01014	0.00995	0.01023		
Co	0.10245	0.200	0.10229	0.10238	0.10268		
Cr	0.01947	0.843	0.01956	0.01957	0.01928		
Cu	0.04923	0.302	0.04911	0.04940	0.04919		
Fe	0.00637	231.4	-0.00996	0.01037	0.01872		
K	0.10675	12.28	0.09477	0.12076	0.10472		
Mg	0.01543	27.68	0.01060	0.01871	0.01698		
Mn	0.03043	0.505	0.03046	0.03056	0.03026		
Mo	0.00050	113.3	0.00099	-0.00012	0.00066		
Na	0.22397	40.31	0.23318	0.30931	0.12942		
Ni	0.08196	0.491	0.08157	0.08238	0.08194		
Pb	0.00535	12.09	0.00468	0.00597	0.00539		
Sb	0.12578	1.122	0.12431	0.12712	0.12590		
Se	0.00952	24.47	0.01199	0.00736	0.00921		
Sn	-0.00067	32.47	-0.00050	-0.00091	-0.00060		
Sr	0.00013	15.53	0.00011	0.00015	0.00013		
Ti	-0.00001	1483.	-0.00022	0.00009	0.00008		
Tl	0.01942	8.297	0.01768	0.01971	0.02087		
V	0.10083	0.514	0.10040	0.10141	0.10070		
Y	20311.66601	0.396	20404.00000	20275.00000	20256.00000		
Zn	0.04213	1.234	0.04218	0.04159	0.04263		

AR305200

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 48 IC5A

07/15/96

21:06

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	0.00012	199.0	0.00000	0.00042	-0.00003			
Al	516.12469	0.608	517.21087	518.57934	512.58380			
As	-0.00439	39.09	-0.00245	-0.00571	-0.00503			
B	0.03078	8.607	0.03155	0.03297	0.02784			
Ba	0.00896	1.175	0.00898	0.00905	0.00884			
Be	-0.00406	9.347	-0.00408	-0.00443	-0.00367			
Ca	518.54888	1.193	517.35089	525.24926	513.04650			
Cd	-0.00046	26.89	-0.00037	-0.00042	-0.00061			
Co	0.00092	61.25	0.00094	0.00147	0.00034			
Cr	-0.00143	71.04	-0.00169	-0.00030	-0.00229			
Cu	-0.00511	5.261	-0.00526	-0.00527	-0.00480			
Fe	210.95106	0.947	210.67796	213.07260	209.10264			
K	0.11388	2.424	0.11490	0.11598	0.11075			
Mg	546.98413	0.817	547.18719	551.35089	542.41430			
Mn	0.00600	2.538	0.00602	0.00614	0.00584			
Mo	0.00085	103.7	0.00017	0.00184	0.00052			
Na	0.20568	67.80	0.27533	0.29661	0.04511			
Ni	0.00001	8518.	0.00006	0.00148	-0.00149			
Pb	-0.00920	19.66	-0.00819	-0.00811	-0.01129			
Sb	0.00784	48.68	0.00841	0.01135	0.00377			
Se	0.00359	75.49	0.00138	0.00278	0.00662			
Sn	0.00355	41.82	0.00184	0.00453	0.00428			
Sr	0.02118	0.685	0.02121	0.02131	0.02103			
Ti	-0.00131	2.937	-0.00131	-0.00127	-0.00135			
Tl	0.03317	17.73	0.03758	0.02649	0.03543			
V	0.01223	6.956	0.01223	0.01308	0.01138			
Y	18175.66601	0.796	18193.00000	18023.00000	18311.00000			
Zn	0.00542	12.24	0.00536	0.00611	0.00479			

AR305201

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705T62

Tube: 49 ICSAB

07/15/96

21:11

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.22534	0.378	0.22439	0.22559	0.22604			
Al	513.83270	0.146	513.02319	514.50671	513.96813			
As	0.10495	1.571	0.10384	0.10417	0.10685			
B	0.03886	1.451	0.03917	0.03821	0.03921			
Ba	0.55010	0.042	0.54983	0.55024	0.55023			
Be	0.50765	0.107	0.50777	0.50706	0.50813			
Ca	518.31774	0.149	517.56835	519.11968	518.26513			
Cd	1.00023	0.079	0.99985	0.99969	1.00115			
Co	0.52155	0.263	0.52017	0.52291	0.52157			
Cr	0.52879	0.114	0.52882	0.52817	0.52938			
Cu	0.57984	0.268	0.57844	0.57958	0.58152			
Fe	210.89141	0.143	210.54254	211.09275	211.03895			
K	0.11486	3.472	0.11620	0.11037	0.11800			
Mg	544.52764	0.126	543.77874	544.67510	545.12908			
Mn	0.53040	0.127	0.52968	0.53103	0.53049			
Mo	0.00148	35.95	0.00147	0.00203	0.00096			
Na	0.24511	44.83	0.21340	0.36738	0.15455			
Ni	1.02441	0.050	1.02382	1.02473	1.02469			
Pb	0.04211	3.889	0.04353	0.04247	0.04032			
Sb	0.65727	0.355	0.65977	0.65692	0.65513			
Se	0.05273	9.811	0.05522	0.05620	0.04679			
Sn	0.00491	21.74	0.00446	0.00413	0.00612			
Sr	0.02111	0.091	0.02108	0.02112	0.02111			
Ti	-0.00135	10.28	-0.00151	-0.00129	-0.00126			
Tl	0.13959	4.635	0.14172	0.13232	0.14473			
V	0.53667	0.368	0.53438	0.53790	0.53772			
Y	18461.33398	0.128	18483.00000	18436.00000	18465.00000			
Zn	0.98254	0.110	0.98371	0.98156	0.98236			

LANCASTER LABORATORIES

Run Name: 9619705T62

INSTRUMENT ID: 05936

Tube: 50 CCV

07/15/96

21:16

ELEM	AVG		INTEGRATIONS				REREAD REDIG	
	(ppm)	%RSD	#1	#2	#3			
Ag	0.52219	0.465	0.52100	0.52059	0.52499			
Al	25.49884	0.381	25.40293	25.49629	25.59729			
As	0.51743	0.104	0.51713	0.51711	0.51806			
B	0.53679	0.527	0.53434	0.53615	0.53989			
Ba	0.51750	0.428	0.51541	0.51725	0.51983			
Be	0.51494	0.543	0.51375	0.51294	0.51814			
Ca	25.20129	0.542	25.16096	25.08935	25.35356			
Cd	0.51478	0.477	0.51386	0.51292	0.51757			
Co	0.51810	0.514	0.51592	0.51731	0.52107			
Cr	0.52567	0.446	0.52373	0.52500	0.52828			
Cu	0.52680	0.439	0.52450	0.52678	0.52913			
Fe	25.18840	0.502	25.16140	25.07757	25.32623			
K	26.88056	0.465	26.74239	26.98583	26.91345			
Mg	25.37769	0.399	25.28944	25.35503	25.48860			
Mn	0.52191	0.519	0.52045	0.52024	0.52504			
Mo	0.52376	0.747	0.51944	0.52473	0.52709			
Na	26.43041	0.528	26.27110	26.53252	26.48762			
Ni	0.52028	0.999	0.51977	0.51536	0.52572			
Pb	0.51085	0.597	0.51072	0.50786	0.51397			
Sb	0.52683	0.413	0.52563	0.52552	0.52934			
Se	0.51583	0.733	0.51668	0.51169	0.51912			
Sn	0.50594	0.738	0.50274	0.50503	0.51005			
Sr	0.51154	0.438	0.50991	0.51062	0.51410			
Ti	0.52530	0.547	0.52369	0.52359	0.52862			
Tl	0.52894	1.119	0.52362	0.53532	0.52788			
V	0.50477	0.634	0.50229	0.50363	0.50838			
Y	19864.33398	0.376	19909.00000	19906.00000	19778.00000			
Zn	0.51072	0.574	0.51051	0.50790	0.51375			

AR305203

LANCASTER LABORATORIES

INSTRUMENT ID: 05936

Run Name: 9619705J62

Tube: 51 CCB

07/15/96

21:21

ELEM	AVG (ppm)	%RSD	INTEGRATIONS		
			#1	#2	#3
Ag	0.00027	105.7	-0.00003	0.00031	0.00052
Al	0.05721	21.79	0.04788	0.07137	0.05238
As	-0.00208	27.38	-0.00197	-0.00158	-0.00271
B	0.01220	4.015	0.01274	0.01177	0.01210
Ba	0.00019	41.08	0.00010	0.00024	0.00024
Be	-0.00058	44.19	-0.00074	-0.00028	-0.00073
Ca	-0.00806	235.5	-0.02323	0.01324	-0.01420
Cd	-0.00003	519.6	-0.00004	0.00015	-0.00021
Co	0.00053	79.60	0.00100	0.00019	0.00039
Cr	-0.00063	100.7	0.00006	-0.00077	-0.00120
Cu	-0.00190	5.470	-0.00202	-0.00183	-0.00186
Fe	0.03242	34.58	0.02326	0.04492	0.02907
K	0.10504	3.910	0.10566	0.10880	0.10066
Mg	0.05246	27.92	0.03799	0.06728	0.05211
Mn	-0.00014	25.61	-0.00012	-0.00012	-0.00019
Mo	0.00099	34.89	0.00059	0.00122	0.00116
Na	0.18021	78.94	0.30287	0.21352	0.02424
Ni	-0.00029	260.3	0.00054	-0.00092	-0.00049
Pb	-0.00084	166.8	-0.00069	-0.00231	0.00048
Sb	0.00222	78.15	0.00220	0.00049	0.00397
Se	0.00117	149.1	0.00151	-0.00072	0.00272
Sn	-0.00021	527.2	-0.00093	0.00111	-0.00082
Sr	0.00010	44.81	0.00007	0.00015	0.00007
Ti	0.00017	54.46	0.00008	0.00017	0.00027
Tl	0.00245	116.3	0.00217	-0.00024	0.00544
V	0.00016	153.2	0.00045	0.00000	0.00003
Y	20034.00000	0.714	19880.00000	20163.00000	20059.00000
Zn	0.00080	69.72	0.00077	0.00138	0.00025

Data Reviewed by: *JMS 7-15-96*

Data Verified by: *D. Jellwiler 7-16-96*

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Lancaster Laboratories

Data Reviewed By:

[Signature] 7-17-96

Data Verified By:

Jane B. Jellwein 7-18-96

Data File Name: 19902T61.DAT

Analyst: 243

Run Name: 9619902T61

Instrument Parameters:

Rinse Time: 30 sec
Individual Integration Time: 10 sec
Total Integration Time: 30 sec

Element Symbol	Element Name	Wavelength(nm)
Ag	Silver	328.06
Al	Aluminum	308.21
As	Arsenic	189.04
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	271.44
K	Potassium	766.49
Mg	Magnesium	279.07
Mn	Manganese	257.61
Mo	Molybdenum	202.03
Na	Sodium	330.23
Ni	Nickel	231.60
Pb	Lead	220.35/1
Pb	Lead	220.35/2
Sb	Antimony	206.83/1
Sb	Antimony	206.83/2
Se	Selenium	196.02/1
Se	Selenium	196.02/2
Sn	Tin	189.98
Ti	Titanium	334.94
Tl	Thallium	190.86
V	Vanadium	292.40
Y	Yttrium	371.03
Zn	Zinc	213.85

AR305205

The 61E TRACE ICP uses a Crawford-Kunselman Noise Reduction Technique for lead, antimony, and selenium. This requires the utilization of the first and second order wavelengths in the calculation of each of these metal determinations. The 61E TRACE ICP also utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

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LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 1 SO

07/17/96

14:47

ELEM	CONC (ppm)	AVG INTENSITY		INTEGRATIONS		
		RATIO	%RSD	#1	#2	#3
__Ag	0.000	-0.00038	7.335	-0.00038	-0.00034	-0.00040
__Al	0.000	0.01325	4.993	0.01399	0.01305	0.01271
__As	0.000	-0.00074	71.02	-0.00124	-0.00019	-0.00078
__Ba	0.000	0.00017	2.718	0.00018	0.00017	0.00017
__Be	0.000	-0.09438	1.166	-0.09476	-0.09525	-0.09314
__Ca	0.000	0.00003	1388.	0.00057	-0.00019	-0.00028
__Cd	0.000	0.00016	27.48	0.00015	0.00021	0.00012
__Co	0.000	-0.00021	32.02	-0.00023	-0.00013	-0.00027
__Cr	0.000	0.00043	90.91	0.00089	0.00020	0.00020
__Cu	0.000	-0.00249	6.462	-0.00231	-0.00260	-0.00257
__Fe	0.000	0.00010	119.2	0.00025	0.00008	0.00000
__K	0.000	0.00214	6.819	0.00210	0.00202	0.00230
__Mg	0.000	0.00116	49.16	0.00182	0.00086	0.00080
__Mn	0.000	0.00044	46.50	0.00068	0.00034	0.00030
__Mo	0.000	-0.00099	37.68	-0.00056	-0.00120	-0.00121
__Na	0.000	-0.00050	6.903	-0.00046	-0.00053	-0.00051
__Ni	0.000	0.00055	71.56	0.00101	0.00037	0.00028
__Pb	0.000	0.00328	8.142	0.00331	0.00300	0.00353
__Sb	0.000	-0.00020	309.5	-0.00015	0.00040	-0.00085
__Se	0.000	-0.00316	8.308	-0.00312	-0.00344	-0.00292
__Sn	0.000	-0.00020	59.42	-0.00010	-0.00016	-0.00033
__Ti	0.000	-0.00064	13.92	-0.00054	-0.00071	-0.00066
__Tl	0.000	-0.00186	13.65	-0.00156	-0.00199	-0.00202
__V	0.000	0.00002	49.63	0.00000	0.00002	0.00002
__Y	N/A	115655.66406	0.889	115986.00000	114502.00000	116479.00000
__Zn	0.000	-0.00009	19.00	-0.00007	-0.00008	-0.00011

AR305206

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 2 S1 S

07/17/96

14:52

ELEM	CONC (ppm)	AVG		INTEGRATIONS		
		INTENSITY RATIO	%RSD	#1	#2	#3
___Al	50.000	0.87732	1.013	0.86784	0.87865	0.88548
___Ca	50.000	0.56827	0.276	0.56651	0.56879	0.56951
___Fe	50.000	0.19112	0.452	0.19014	0.19144	0.19177
___K	50.000	1.72217	0.942	1.70586	1.72232	1.73833
___Mg	50.000	0.74679	0.841	0.73980	0.74861	0.75196
___Na	50.000	0.14486	0.905	0.14349	0.14497	0.14611
___Y	N/A	110534.66406	1.253	112049.00000	110224.00000	109331.00000

AR305207

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 3 S2 S

07/17/96

14:55

ELEM	CONC (ppm)	AVG INTENSITY		%RSD	INTEGRATIONS		
		RATIO			#1	#2	#3
__Ag	1.000	0.21529	2.439		0.20922	0.21833	0.21830
__As	1.000	0.24548	2.959		0.23711	0.24924	0.25009
__Ba	1.000	0.31459	2.385		0.30593	0.31868	0.31917
__Be	1.000	3.39192	2.661		3.28780	3.44852	3.43944
__Cd	1.000	0.96087	2.597		0.93205	0.97567	0.97489
__Co	1.000	0.21183	2.929		0.20468	0.21580	0.21501
__Cu	1.000	0.24085	2.531		0.23382	0.24405	0.24469
__Mn	1.000	0.86642	2.589		0.84052	0.88005	0.87868
__Ni	1.000	0.14169	2.496		0.13762	0.14400	0.14346
__Pb	1.000	0.27997	2.159		0.27299	0.28330	0.28363
__Se	1.000	0.14250	1.857		0.13948	0.14361	0.14441
__Tl	1.000	0.12122	1.884		0.11858	0.12249	0.12259
__Y	N/A	115334.00000	1.684		117557.00000	114482.00000	113963.00000
__Zn	1.000	0.08749	2.500		0.08497	0.08886	0.08864

AR305208

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LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 4 S3

07/17/96

14:59

ELEM	CONC (ppm)	AVG INTENSITY		%RSD	INTEGRATIONS		
		RATIO			#1	#2	#3
___Cr	1.000	0.10995	2.774		0.10644	0.11195	0.11147
___Mo	1.000	0.40090	3.164		0.38625	0.40814	0.40830
___Sb	1.000	0.37244	3.648		0.35679	0.38128	0.37926
___Sn	1.000	0.08995	2.640		0.08721	0.09120	0.09145
___Ti	1.000	0.48220	2.794		0.46664	0.48982	0.49014
___V	1.000	0.13606	2.662		0.13188	0.13819	0.13811
___Y	N/A	115517.66406	2.095	118311.00000	114194.00000	114048.00000	

AR305209

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 5 ICV

07/17/96 15:03

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.60665	0.724	0.60195	0.61065	0.60736	_____	_____
Al	28.84180	0.558	28.66558	28.98187	28.87796	_____	_____
As	0.60160	0.911	0.59732	0.60778	0.59971	_____	_____
Ba	0.59187	0.634	0.58782	0.59525	0.59254	_____	_____
Be	0.58505	0.846	0.57978	0.58960	0.58576	_____	_____
Ca	29.08084	0.847	28.81376	29.29913	29.12962	_____	_____
Cd	0.58858	0.826	0.58376	0.59349	0.58849	_____	_____
Co	0.58469	0.678	0.58038	0.58819	0.58550	_____	_____
Cr	0.60417	0.722	0.59956	0.60824	0.60471	_____	_____
Cu	0.60107	0.601	0.59754	0.60477	0.60090	_____	_____
Fe	29.01658	0.941	28.73017	29.27458	29.04500	_____	_____
K	29.40896	0.086	29.39878	29.43785	29.39024	_____	_____
Mg	28.98123	0.644	28.78178	29.15205	29.00985	_____	_____
Mn	0.58918	0.733	0.58448	0.59298	0.59008	_____	_____
Mo	0.61041	0.855	0.60443	0.61275	0.61406	_____	_____
Na	29.71379	0.412	29.58532	29.82930	29.72674	_____	_____
Ni	0.59012	0.817	0.58543	0.59508	0.58986	_____	_____
Pb	0.58764	1.022	0.58158	0.59360	0.58775	_____	_____
Sb	0.60831	1.074	0.60086	0.61308	0.61099	_____	_____
Se	0.57812	1.191	0.57155	0.58529	0.57753	_____	_____
Sn	0.58385	0.863	0.57811	0.58755	0.58590	_____	_____
Ti	0.61760	0.783	0.61239	0.62194	0.61848	_____	_____
Tl	0.58767	2.078	0.57357	0.59445	0.59499	_____	_____
V	0.57936	0.712	0.57489	0.58302	0.58018	_____	_____
Y	113635.33593	0.414	114138.00000	113565.00000	113203.00000	_____	_____
Zn	0.58811	0.692	0.58381	0.59190	0.58862	_____	_____

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 6 ICB

07/17/96

15:07

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00010	197.4	-0.00005	0.00033	0.00002	_____	_____
__Al	-0.04322	11.20	-0.04114	-0.03976	-0.04875	_____	_____
__As	0.00104	283.7	0.00169	-0.00218	0.00362	_____	_____
__Ba	0.00020	17.36	0.00021	0.00022	0.00016	_____	_____
__Be	0.00013	249.6	0.00043	-0.00022	0.00018	_____	_____
__Ca	0.02171	15.30	0.02392	0.02331	0.01789	_____	_____
__Cd	0.00035	73.45	0.00063	0.00031	0.00011	_____	_____
__Co	-0.00038	149.0	-0.00103	0.00002	-0.00013	_____	_____
__Cr	-0.00298	13.89	-0.00288	-0.00262	-0.00343	_____	_____
__Cu	-0.00108	14.92	-0.00090	-0.00120	-0.00115	_____	_____
__Fe	-0.00795	75.28	-0.00118	-0.01257	-0.01010	_____	_____
__K	0.06308	9.215	0.06441	0.06812	0.05672	_____	_____
__Mg	-0.02424	19.12	-0.02532	-0.01916	-0.02823	_____	_____
__Mn	0.00000	2408.	0.00009	0.00001	-0.00012	_____	_____
__Mo	0.00100	113.1	0.00214	0.00100	-0.00013	_____	_____
__Na	0.21025	16.93	0.23614	0.22498	0.16965	_____	_____
__Ni	-0.00292	13.97	-0.00247	-0.00302	-0.00328	_____	_____
__Pb	0.00028	202.8	0.00089	0.00017	-0.00023	_____	_____
__Sb	-0.00009	265.3	-0.00034	-0.00006	0.00013	_____	_____
__Se	0.00066	185.4	0.00060	-0.00053	0.00194	_____	_____
__Sn	0.00136	61.21	0.00184	0.00184	0.00039	_____	_____
__Ti	0.00015	59.91	0.00014	0.00025	0.00007	_____	_____
__Tl	0.00074	176.4	0.00021	0.00225	-0.00021	_____	_____
__V	0.00070	41.95	0.00067	0.00100	0.00042	_____	_____
__Y	114447.33593	0.646	114864.00000	113593.00000	114885.00000	_____	_____
__Zn	0.00003	134.1	0.00007	0.00006	-0.00002	_____	_____

AR305211

LANCASTER LABORATORIES

INSTRUMENT ID: 05478

Run Name: 9619902T61

Tube: 7 CRI

07/17/96

15:12

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.02013	1.450	0.01983	0.02041	0.02015	_____	_____
Al	-0.04619	15.01	-0.05399	-0.04072	-0.04384	_____	_____
As	0.02115	4.061	0.02069	0.02215	0.02063	_____	_____
Ba	0.00001	199.1	0.00000	0.00005	0.00000	_____	_____
Be	0.00994	1.895	0.01012	0.00975	0.00996	_____	_____
Ca	0.01266	11.89	0.01246	0.01426	0.01126	_____	_____
Cd	0.01032	2.420	0.01054	0.01037	0.01005	_____	_____
Co	0.09909	0.714	0.09831	0.09970	0.09924	_____	_____
Cr	0.01722	2.211	0.01694	0.01766	0.01708	_____	_____
Cu	0.05022	1.050	0.04967	0.05026	0.05073	_____	_____
Fe	-0.02020	61.20	-0.01410	-0.01206	-0.03443	_____	_____
K	0.05693	4.128	0.05876	0.05775	0.05428	_____	_____
Mg	-0.03440	1.864	-0.03506	-0.03435	-0.03378	_____	_____
Mn	0.03031	0.619	0.03010	0.03046	0.03037	_____	_____
Mo	-0.00012	174.5	-0.00037	-0.00004	0.00004	_____	_____
Na	0.21454	5.397	0.22585	0.21507	0.20271	_____	_____
Ni	0.07826	1.319	0.07752	0.07944	0.07781	_____	_____
Pb	0.00652	10.83	0.00687	0.00571	0.00699	_____	_____
Sb	0.12371	1.037	0.12303	0.12519	0.12291	_____	_____
Se	0.01080	8.714	0.01184	0.01000	0.01056	_____	_____
Sn	0.00074	203.3	0.00058	0.00233	-0.00068	_____	_____
Ti	-0.00005	174.5	-0.00015	0.00001	-0.00001	_____	_____
Tl	0.01907	18.89	0.02161	0.02066	0.01495	_____	_____
V	0.10139	0.543	0.10092	0.10200	0.10126	_____	_____
Y	114129.00000	0.406	114662.00000	113813.00000	113912.00000	_____	_____
Zn	0.04103	0.235	0.04094	0.04113	0.04100	_____	_____

AR305212

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 8 ICSA

07/17/96

15:16

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	-0.00002	2741.	-0.00070	-0.00003	0.00066	_____	_____	
__Al	500.57696	0.693	500.84869	503.90380	496.97842	_____	_____	
__As	-0.00078	335.9	-0.00323	-0.00114	0.00201	_____	_____	
__Ba	0.00805	0.645	0.00804	0.00811	0.00801	_____	_____	
__Be	-0.00015	19.51	-0.00012	-0.00018	-0.00014	_____	_____	
__Ca	493.66339	0.669	489.84875	495.50607	495.63534	_____	_____	
__Cd	0.00914	2.558	0.00941	0.00901	0.00901	_____	_____	
__Co	-0.00089	44.97	-0.00127	-0.00046	-0.00095	_____	_____	
__Cr	-0.00211	41.37	-0.00308	-0.00140	-0.00184	_____	_____	
__Cu	-0.00276	0.353	-0.00277	-0.00275	-0.00276	_____	_____	
__Fe	198.96209	0.512	197.91514	199.95175	199.01940	_____	_____	
__K	0.06259	5.354	0.06275	0.05915	0.06585	_____	_____	
__Mg	506.30706	0.524	504.46914	509.35287	505.09921	_____	_____	
__Mn	0.00398	2.880	0.00411	0.00393	0.00389	_____	_____	
__Mo	-0.00220	45.59	-0.00212	-0.00325	-0.00124	_____	_____	
__Na	0.21803	15.65	0.23455	0.17877	0.24077	_____	_____	
__Ni	-0.00653	10.58	-0.00691	-0.00696	-0.00573	_____	_____	
__Pb	0.00126	33.66	0.00101	0.00175	0.00101	_____	_____	
__Sb	-0.00204	257.6	0.00374	-0.00329	-0.00658	_____	_____	
__Se	-0.00700	22.37	-0.00550	-0.00687	-0.00863	_____	_____	
__Sn	0.00198	172.2	0.00434	-0.00193	0.00353	_____	_____	
__Ti	-0.00107	18.03	-0.00126	-0.00107	-0.00087	_____	_____	
__Tl	0.00076	569.3	-0.00311	0.00549	-0.00008	_____	_____	
__V	-0.00627	4.606	-0.00595	-0.00633	-0.00652	_____	_____	
__Y	105551.33593	0.328	105162.00000	105666.00000	105826.00000	_____	_____	
__Zn	0.01152	0.951	0.01157	0.01139	0.01160	_____	_____	

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 9 ICSAB

07/17/96

15:20

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.21467	1.828	0.21476	0.21856	0.21071		
Al	499.66061	1.445	500.96594	506.14151	491.87435		
As	0.10031	1.005	0.10003	0.10142	0.09947		
Ba	0.52158	1.427	0.52341	0.52795	0.51340		
Be	0.46855	2.126	0.46971	0.47789	0.45806		
Ca	498.31924	2.847	498.74176	512.29125	483.92474		
Cd	0.93952	2.071	0.94057	0.95844	0.91956		
Co	0.46977	2.168	0.46984	0.47992	0.45955		
Cr	0.49067	2.501	0.49216	0.50213	0.47772		
Cu	0.55629	1.196	0.55795	0.56196	0.54897		
Fe	199.56192	2.397	199.88577	204.17617	194.62382		
K	0.06039	14.56	0.05840	0.07001	0.05276		
Mg	507.73367	1.789	509.11773	516.04693	498.03634		
Mn	0.48425	2.203	0.48514	0.49445	0.47316		
Mo	0.00062	109.0	0.00096	-0.00015	0.00107		
Na	0.22581	22.33	0.23259	0.27251	0.17234		
Ni	0.94112	2.079	0.94686	0.95717	0.91932		
Pb	0.05188	3.112	0.05121	0.05372	0.05071		
Sb	0.62729	2.323	0.62589	0.64252	0.61347		
Se	0.04189	2.843	0.04233	0.04279	0.04054		
Sn	0.00030	1907.	0.00383	-0.00650	0.00360		
Ti	-0.00086	8.287	-0.00087	-0.00078	-0.00093		
Tl	0.10308	7.299	0.09480	0.10492	0.10951		
V	0.48489	2.092	0.48622	0.49430	0.47414		
Y	106047.66406	2.073	105785.00000	103992.00000	108366.00000		
Zn	0.99048	2.029	0.99246	1.00952	0.96947		

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 10 CCV

07/17/96

15:25

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			RERÉAD	REDIG
			#1	#2	#3		
__Ag	0.51688	0.332	0.51502	0.51721	0.51841	_____	_____
__Al	24.21346	0.597	24.36577	24.07801	24.19658	_____	_____
__As	0.52765	0.236	0.52835	0.52621	0.52839	_____	_____
__Ba	0.51207	0.194	0.51171	0.51131	0.51320	_____	_____
__Be	0.50766	0.594	0.50431	0.51018	0.50850	_____	_____
__Ca	24.65552	0.302	24.58313	24.73214	24.65127	_____	_____
__Cd	0.50862	0.481	0.50605	0.51093	0.50887	_____	_____
__Co	0.50090	0.493	0.49808	0.50269	0.50193	_____	_____
__Cr	0.52064	0.354	0.51872	0.52240	0.52081	_____	_____
__Cu	0.51105	0.395	0.51245	0.50873	0.51198	_____	_____
__Fe	24.09130	0.444	23.97158	24.17768	24.12463	_____	_____
__K	24.98566	0.865	25.19175	24.76044	25.00478	_____	_____
__Mg	24.62296	0.214	24.68291	24.58268	24.60330	_____	_____
__Mn	0.50914	0.467	0.50646	0.51099	0.50997	_____	_____
__Mo	0.52625	1.050	0.51993	0.52861	0.53020	_____	_____
__Na	25.22235	0.441	25.35100	25.15832	25.15774	_____	_____
__Ni	0.51228	0.386	0.51048	0.51440	0.51195	_____	_____
__Pb	0.50652	0.716	0.50233	0.50859	0.50864	_____	_____
__Sb	0.51890	0.923	0.51350	0.52052	0.52267	_____	_____
__Se	0.52956	0.346	0.52752	0.53010	0.53107	_____	_____
__Sn	0.50337	0.950	0.49824	0.50771	0.50418	_____	_____
__Ti	0.52762	0.348	0.52551	0.52848	0.52888	_____	_____
__Tl	0.51728	0.726	0.51295	0.51917	0.51971	_____	_____
__V	0.49955	0.435	0.49719	0.50147	0.50000	_____	_____
__Y	114325.33593	0.497	114903.00000	114308.00000	113765.00000	_____	_____
__Zn	0.51436	0.421	0.51189	0.51596	0.51524	_____	_____

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AR305215

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 11 CCB

07/17/96

15:29

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00012	171.5	-0.00011	0.00028	0.00020		
Al	0.00395	168.9	0.01153	0.00145	-0.00111		
As	0.00279	91.70	0.00568	0.00076	0.00194		
Ba	0.00018	47.55	0.00025	0.00019	0.00008		
Be	0.00010	8.046	0.00010	0.00011	0.00010		
Ca	0.05944	8.588	0.06379	0.06071	0.05382		
Cd	0.00051	26.13	0.00066	0.00046	0.00041		
Co	-0.00046	22.23	-0.00056	-0.00035	-0.00048		
Cr	-0.00364	7.110	-0.00334	-0.00375	-0.00383		
Cu	-0.00157	8.245	-0.00171	-0.00154	-0.00146		
Fe	0.00843	55.54	0.00993	0.01218	0.00318		
K	0.05963	5.837	0.06210	0.06114	0.05565		
Mg	0.01356	36.24	0.01747	0.01516	0.00804		
Mn	-0.00003	238.5	0.00004	-0.00003	-0.00012		
Mo	0.00131	77.53	0.00185	0.00196	0.00013		
Na	0.17636	7.171	0.18709	0.17956	0.16242		
Ni	-0.00335	8.809	-0.00302	-0.00345	-0.00358		
Pb	0.00003	1788.	-0.00069	0.00008	0.00072		
Sb	0.00108	62.02	0.00100	0.00179	0.00045		
Se	0.00142	17.07	0.00140	0.00118	0.00167		
Sn	0.00063	216.8	0.00203	-0.00070	0.00056		
Ti	0.00016	49.02	0.00019	0.00021	0.00007		
Tl	0.00171	58.82	0.00243	0.00056	0.00214		
V	0.00039	101.6	0.00082	0.00030	0.00004		
Y	113225.66406	0.041	113253.00000	113171.00000	113253.00000		
Zn	0.00009	59.94	0.00016	0.00006	0.00006		

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AR305216

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 12 PBW 07/17/96 15:34
 ****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	-0.00012	371.7	0.00038	-0.00045	-0.00029	_____	_____
__Al	-0.02452	15.51	-0.02291	-0.02179	-0.02887	_____	_____
__As	0.00224	70.91	0.00051	0.00255	0.00365	_____	_____
__Ba	0.00002	125.7	0.00005	0.00000	0.00002	_____	_____
__Be	0.00027	25.57	0.00022	0.00035	0.00024	_____	_____
__Ca	0.03299	18.11	0.03977	0.03077	0.02844	_____	_____
__Cd	0.00031	61.92	0.00042	0.00008	0.00042	_____	_____
__Co	-0.00044	179.4	0.00039	-0.00119	-0.00054	_____	_____
__Cr	-0.00301	21.36	-0.00232	-0.00359	-0.00311	_____	_____
__Cu	-0.00163	10.16	-0.00156	-0.00182	-0.00151	_____	_____
__Fe	-0.00342	281.6	0.00763	-0.00781	-0.01009	_____	_____
__K	0.05591	16.81	0.06660	0.04893	0.05220	_____	_____
__Mg	-0.01273	74.44	-0.00203	-0.01606	-0.02008	_____	_____
__Mn	-0.00001	256.9	0.00003	-0.00002	-0.00006	_____	_____
__Mo	-0.00031	239.5	0.00049	-0.00043	-0.00102	_____	_____
__Na	0.18772	20.58	0.21363	0.14330	0.20622	_____	_____
__Ni	-0.00118	37.80	-0.00105	-0.00167	-0.00081	_____	_____
✓__Pb	0.00016	380.5	0.00012	0.00079	-0.00042	_____	_____
__Sb	-0.00006	937.1	0.00005	0.00047	-0.00072	_____	_____
__Se	0.00013	1350.	0.00017	0.00186	-0.00164	_____	_____
__Sn	-0.00027	125.2	0.00010	-0.00037	-0.00056	_____	_____
✓__Ti	0.00002	485.5	0.00017	-0.00009	0.00000	_____	_____
✓__Tl	-0.00099	274.9	0.00040	-0.00416	0.00076	_____	_____
__V	0.00050	41.22	0.00074	0.00035	0.00042	_____	_____
__Y	114844.66406	0.097	114747.00000	114966.00000	114821.00000	_____	_____
__Zn	0.00172	8.833	0.00185	0.00175	0.00155	_____	_____

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 13 LCSW

07/17/96

15:38

****,1-1,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.05244	0.500	0.05256	0.05262	0.05214	_____	_____
Al	2.01586	1.540	2.01606	2.04681	1.98471	_____	_____
As	2.07786	0.893	2.07265	2.09849	2.06245	_____	_____
Ba	2.06500	0.697	2.06010	2.08121	2.05368	_____	_____
Be	0.04904	0.406	0.04887	0.04926	0.04899	_____	_____
Ca	4.02983	0.933	4.03830	4.06250	3.98869	_____	_____
Cd	0.05023	1.445	0.04997	0.05105	0.04967	_____	_____
Co	0.49705	0.711	0.49658	0.50080	0.49376	_____	_____
Cr	0.20783	0.920	0.20706	0.21001	0.20643	_____	_____
Cu	0.25795	0.821	0.25756	0.26024	0.25606	_____	_____
Fe	0.96791	0.847	0.96238	0.97733	0.96402	_____	_____
K	3.90363	0.915	3.90173	3.94026	3.86890	_____	_____
Mg	1.97936	1.071	1.98132	1.99952	1.95723	_____	_____
Mn	0.50938	0.766	0.50944	0.51326	0.50545	_____	_____
Mo	2.12233	0.684	2.11579	2.13898	2.11222	_____	_____
Na	4.12659	2.619	4.12059	4.23755	4.02162	_____	_____
Ni	0.51552	1.026	0.51616	0.52046	0.50993	_____	_____
✓Pb	0.50648	0.780	0.50644	0.51045	0.50254	_____	_____
Sb	0.52372	0.614	0.52447	0.52650	0.52020	_____	_____
Se	2.04721	0.844	2.03697	2.06716	2.03750	_____	_____
Sn	3.99835	0.882	3.99580	4.03482	3.96442	_____	_____
Ti	1.07550	0.695	1.07354	1.08377	1.06920	_____	_____
✓Tl	2.04578	0.898	2.02985	2.06588	2.04160	_____	_____
V	0.50569	0.877	0.50570	0.51012	0.50124	_____	_____
Y	111384.66406	0.958	110723.00000	110815.00000	112616.00000	_____	_____
Zn	0.50936	0.777	0.50892	0.51352	0.50564	_____	_____

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AR305218

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 14 2537155 W-204 07/17/96 15:43
 U***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	-0.00032	103.1	-0.00006	-0.00069	-0.00020	_____	_____
__Al	-0.03880	9.102	-0.03914	-0.03512	-0.04216	_____	_____
__As	0.00099	177.4	0.00277	-0.00075	0.00096	_____	_____
__Ba	0.04383	0.403	0.04399	0.04385	0.04364	_____	_____
__Be	0.00053	44.26	0.00026	0.00072	0.00060	_____	_____
__Ca	50.08208	0.655	49.70583	50.30898	50.23143	_____	_____
__Cd	0.00024	140.9	0.00060	0.00020	-0.00007	_____	_____
__Co	0.00082	41.99	0.00113	0.00045	0.00089	_____	_____
__Cr	-0.00282	9.652	-0.00297	-0.00250	-0.00298	_____	_____
__Cu	-0.00137	12.75	-0.00144	-0.00117	-0.00150	_____	_____
__Fe	-0.00768	99.04	-0.01212	-0.01204	0.00110	_____	_____
__K	0.83915	0.623	0.83804	0.84485	0.83457	_____	_____
__Mg	18.72339	0.543	18.61908	18.82237	18.72872	_____	_____
__Mn	0.00007	56.80	0.00013	0.00006	0.00004	_____	_____
__Mo	0.00294	65.53	0.00515	0.00199	0.00166	_____	_____
__Na	22.09834	0.666	21.94926	22.24354	22.10223	_____	_____
__Ni	-0.00224	20.26	-0.00189	-0.00207	-0.00275	_____	_____
✓__Pb	-0.00039	93.23	-0.00002	-0.00075	-0.00040	_____	_____
__Sb	0.00003	1476.	0.00031	-0.00048	0.00027	_____	_____
__Se	0.00280	29.00	0.00370	0.00212	0.00258	_____	_____
__Sn	0.00425	47.31	0.00318	0.00299	0.00656	_____	_____
__Ti	0.00009	307.9	0.00042	-0.00010	-0.00004	_____	_____
X__Tl	0.00852	44.82	0.01227	0.00865	0.00463	_____	_____
__V	0.00057	6.190	0.00060	0.00053	0.00059	_____	_____
__Y	117012.66406	0.517	116556.00000	116783.00000	117699.00000	_____	_____
__Zn	0.00772	1.793	0.00758	0.00786	0.00771	_____	_____

AR305219

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 15 2537155 W-2Φ4 A 07/17/96 15:47
 UP**,100-100,DF1,961905720001,8,,

ELEM	AVG		%RSD	INTEGRATIONS			REREAD	REDIG
	(ppm)			#1	#2	#3		
__Ag	0.02015	1.221		0.01994	0.02042	0.02010	_____	_____
__Al	0.93196	1.354		0.92410	0.94652	0.92526	_____	_____
__As	0.49732	0.722		0.49624	0.50133	0.49439	_____	_____
__Ba	0.09918	0.760		0.09850	0.09999	0.09904	_____	_____
__Be	0.01952	0.484		0.01953	0.01942	0.01960	_____	_____
__Ca	50.68735	0.652		50.50791	51.06926	50.48490	_____	_____
__Cd	0.04839	0.211		0.04842	0.04847	0.04828	_____	_____
__Co	0.09627	0.631		0.09590	0.09697	0.09594	_____	_____
__Cr	0.19594	0.732		0.19556	0.19753	0.19473	_____	_____
__Cu	0.49536	0.852		0.49188	0.50006	0.49414	_____	_____
__Fe	0.45384	2.004		0.45300	0.46332	0.44519	_____	_____
__K	2.78772	0.571		2.77627	2.80591	2.78097	_____	_____
__Mg	19.56796	0.783		19.44328	19.73919	19.52139	_____	_____
__Mn	0.05839	0.712		0.05809	0.05886	0.05822	_____	_____
__Mo	0.20413	0.830		0.20217	0.20509	0.20513	_____	_____
__Na	23.93897	0.643		23.78260	24.09063	23.94368	_____	_____
__Ni	0.14603	0.994		0.14471	0.14759	0.14580	_____	_____
__Pb	0.04830	1.191		0.04764	0.04854	0.04871	_____	_____
__Sb	0.38404	1.351		0.37843	0.38866	0.38504	_____	_____
__Se	0.79867	1.025		0.79140	0.80754	0.79707	_____	_____
__Sn	0.57911	0.845		0.57457	0.58429	0.57848	_____	_____
__Ti	0.10309	0.694		0.10248	0.10387	0.10290	_____	_____
__Tl	0.98892	0.436		0.99136	0.99147	0.98393	_____	_____
__V	0.09729	0.704		0.09672	0.09805	0.09710	_____	_____
__Y	114765.33593	0.832		115162.00000	113676.00000	115458.00000	_____	_____
__Zn	0.13242	0.513		0.13200	0.13320	0.13205	_____	_____

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AR305220

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 16 2537155 W-204D 07/17/96 15:52
 D***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	-0.00019	195.1	0.00003	0.00001	-0.00064	_____	_____
Al	-0.04191	15.61	-0.04851	-0.04182	-0.03542	_____	_____
As	-0.00079	83.29	-0.00155	-0.00044	-0.00037	_____	_____
Ba	0.04802	1.288	0.04750	0.04786	0.04870	_____	_____
Be	0.00062	18.38	0.00072	0.00050	0.00065	_____	_____
Ca	50.72934	0.568	50.58985	50.53730	51.06088	_____	_____
Cd	0.00024	27.41	0.00024	0.00017	0.00030	_____	_____
Co	0.00101	52.34	0.00093	0.00158	0.00052	_____	_____
Cr	-0.00266	10.48	-0.00244	-0.00297	-0.00257	_____	_____
Cu	-0.00133	10.04	-0.00118	-0.00144	-0.00137	_____	_____
Fe	-0.01287	88.88	-0.00322	-0.00987	-0.02550	_____	_____
K	0.83706	0.837	0.83768	0.82976	0.84374	_____	_____
Mg	18.76194	0.899	18.62208	18.71423	18.94950	_____	_____
Mn	0.00005	13.42	0.00004	0.00006	0.00005	_____	_____
Mo	0.00068	22.83	0.00073	0.00080	0.00050	_____	_____
Na	22.02450	0.689	21.90336	21.97532	22.19482	_____	_____
Ni	-0.00225	4.012	-0.00221	-0.00220	-0.00236	_____	_____
✓Pb	0.00045	8.299	0.00049	0.00041	0.00044	_____	_____
Sb	0.00080	146.7	0.00191	-0.00043	0.00094	_____	_____
Se	0.00042	293.7	0.00188	-0.00040	-0.00018	_____	_____
Sn	0.00271	45.05	0.00242	0.00166	0.00405	_____	_____
Ti	-0.00005	203.5	0.00006	-0.00008	-0.00013	_____	_____
✓Tl	0.00156	147.2	0.00243	0.00331	-0.00104	_____	_____
V	0.00047	66.79	0.00047	0.00015	0.00079	_____	_____
Y	116749.66406	0.964	117783.00000	116917.00000	115549.00000	_____	_____
Zn	0.00946	3.221	0.00926	0.00932	0.00981	_____	_____

AR305221

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 17 2537155 W-2φ45 07/17/96 15:56
 R***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
__Ag	0.05138	0.672	0.05106	0.05175	0.05134	_____	_____
__Al	1.91800	0.431	1.90997	1.92651	1.91753	_____	_____
__As	0.04603	3.578	0.04607	0.04436	0.04766	_____	_____
__Ba	2.07128	0.278	2.06562	2.07714	2.07109	_____	_____
__Be	0.04833	0.636	0.04812	0.04868	0.04818	_____	_____
__Ca	54.69871	0.535	54.48266	55.03204	54.58141	_____	_____
__Cd	0.04842	0.455	0.04835	0.04866	0.04824	_____	_____
__Co	0.47444	0.531	0.47380	0.47722	0.47231	_____	_____
__Cr	0.20379	0.770	0.20232	0.20545	0.20360	_____	_____
__Cu	0.25002	0.371	0.25035	0.25074	0.24897	_____	_____
__Fe	0.92540	1.202	0.93275	0.91260	0.93084	_____	_____
__K	4.89924	0.355	4.89074	4.91925	4.88774	_____	_____
__Mg	20.84334	0.319	20.82831	20.91606	20.78564	_____	_____
__Mn	0.49037	0.576	0.48777	0.49338	0.48996	_____	_____
__Mo	2.04669	0.799	2.02847	2.06012	2.05148	_____	_____
__Na	26.70884	0.439	26.62132	26.84223	26.66296	_____	_____
__Ni	0.49638	0.553	0.49322	0.49821	0.49771	_____	_____
✓__Pb	0.02073	4.042	0.02136	0.02105	0.01978	_____	_____
__Sb	0.50311	0.147	0.50360	0.50348	0.50225	_____	_____
__Se	0.01197	24.82	0.01105	0.00958	0.01530	_____	_____
__Sn	4.00390	0.635	3.98720	4.03317	3.99134	_____	_____
__Ti	1.03546	0.331	1.03301	1.03938	1.03400	_____	_____
✓__Tl	0.04728	5.829	0.04905	0.04410	0.04868	_____	_____
__V	0.48750	0.608	0.48465	0.49057	0.48729	_____	_____
__Y	114032.33593	0.023	114063.00000	114017.00000	114017.00000	_____	_____
__Zn	0.52851	0.680	0.52488	0.53208	0.52858	_____	_____

AR305222

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 18 2537155 *w-2441* 07/17/96 16:00
 UL**,100-100,DF5,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00014	109.3	0.00017	0.00029	-0.00002		
Al	-0.04331	7.206	-0.04670	-0.04055	-0.04268		
As	0.00067	80.23	0.00067	0.00122	0.00013		
Ba	0.00863	2.061	0.00883	0.00851	0.00854		
Be	0.00081	3.481	0.00080	0.00084	0.00079		
Ca	10.37410	0.473	10.32620	10.42441	10.37169		
Cd	0.00020	75.36	0.00037	0.00011	0.00011		
Co	-0.00016	69.40	-0.00023	-0.00003	-0.00023		
Cr	-0.00334	9.784	-0.00297	-0.00344	-0.00360		
Cu	-0.00242	8.565	-0.00230	-0.00231	-0.00267		
Fe	-0.01569	29.27	-0.02084	-0.01421	-0.01202		
K	0.20496	2.024	0.20697	0.20772	0.20018		
Mg	3.76529	0.388	3.74878	3.77666	3.77045		
Mn	0.00002	333.1	0.00010	0.00004	-0.00006		
Mo	0.00249	61.20	0.00413	0.00221	0.00112		
Na	4.19448	1.465	4.19018	4.25797	4.13529		
Ni	-0.00286	29.49	-0.00231	-0.00244	-0.00383		
Pb	-0.00023	208.9	-0.00053	0.00033	-0.00051		
Sb	0.00043	229.3	0.00088	0.00114	-0.00071		
Se	0.00000	27940	0.00237	-0.00090	-0.00144		
Sn	0.01130	14.85	0.01290	0.01145	0.00955		
Ti	0.00020	67.74	0.00035	0.00016	0.00008		
Tl	0.00203	29.39	0.00208	0.00260	0.00140		
V	0.00045	28.91	0.00059	0.00041	0.00034		
Y	116594.33593	0.130	116422.00000	116708.00000	116653.00000		
Zn	0.00759	2.792	0.00776	0.00736	0.00766		

AR305223

144

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 19 2537156 W-2φ3 07/17/96 16:05
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00030	89.07	0.00000	0.00035	0.00054	_____	_____
__Al	-0.04625	15.41	-0.04008	-0.05406	-0.04460	_____	_____
__As	0.00109	113.1	0.00236	0.00104	-0.00011	_____	_____
__Ba	0.05036	0.759	0.05065	0.04993	0.05050	_____	_____
__Be	0.00104	17.86	0.00092	0.00126	0.00095	_____	_____
__Ca	69.03440	0.278	69.09135	68.81974	69.19210	_____	_____
__Cd	0.00017	79.00	0.00016	0.00031	0.00004	_____	_____
__Co	-0.00026	172.8	-0.00080	0.00002	-0.00002	_____	_____
__Cr	-0.00303	7.396	-0.00289	-0.00291	-0.00329	_____	_____
__Cu	-0.00102	20.18	-0.00125	-0.00087	-0.00092	_____	_____
__Fe	-0.01336	53.43	-0.01863	-0.00523	-0.01622	_____	_____
__K	0.93533	1.250	0.94661	0.92326	0.93613	_____	_____
__Mg	25.39738	0.627	25.48362	25.21349	25.49504	_____	_____
__Mn	0.00030	11.88	0.00029	0.00034	0.00027	_____	_____
__Mo	0.00089	8.464	0.00084	0.00098	0.00085	_____	_____
__Na	7.71681	0.609	7.76255	7.66857	7.71930	_____	_____
__Ni	-0.00269	15.26	-0.00316	-0.00240	-0.00251	_____	_____
✓__Pb	0.00026	450.5	0.00061	0.00125	-0.00107	_____	_____
__Sb	0.00039	260.3	0.00032	-0.00059	0.00144	_____	_____
__Se	0.00093	126.3	0.00216	0.00086	-0.00020	_____	_____
__Sn	0.00115	144.1	0.00013	0.00307	0.00025	_____	_____
__Ti	-0.00005	206.1	-0.00018	0.00000	0.00002	_____	_____
✓__Tl	0.00141	202.7	0.00129	0.00432	-0.00139	_____	_____
__V	0.00042	46.08	0.00028	0.00065	0.00034	_____	_____
__Y	117549.33593	1.060	116308.00000	118801.00000	117539.00000	_____	_____
__Zn	0.00712	1.590	0.00699	0.00715	0.00721	_____	_____

AR305224

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 20 2537157 W-343 07/17/96 16:09
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00029	72.22	0.00005	0.00040	0.00043			
Al	-0.03729	4.791	-0.03526	-0.03801	-0.03861			
As	0.00172	64.46	0.00062	0.00170	0.00285			
Ba	0.01818	0.250	0.01814	0.01818	0.01823			
Be	0.00076	6.078	0.00080	0.00077	0.00071			
Ca	26.75595	0.622	26.59755	26.74064	26.92967			
Cd	0.00010	82.94	0.00015	0.00000	0.00014			
Co	-0.00039	69.50	-0.00048	-0.00061	-0.00008			
Cr	-0.00231	4.177	-0.00242	-0.00226	-0.00225			
Cu	-0.00189	3.168	-0.00189	-0.00183	-0.00195			
Fe	-0.00331	287.6	-0.01426	0.00327	0.00103			
K	7.26344	0.611	7.31023	7.25832	7.22177			
Mg	11.29720	0.182	11.27576	11.29890	11.31696			
Mn	0.00032	9.618	0.00029	0.00034	0.00034			
Mo	0.00079	97.87	0.00150	0.00090	-0.00003			
Na	5.82827	0.402	5.81449	5.85539	5.81494			
Ni	-0.00281	17.85	-0.00316	-0.00304	-0.00224			
X Pb	0.00114	92.36	0.00074	0.00235	0.00035			
Sb	0.00005	1459.	0.00090	-0.00029	-0.00045			
Se	-0.00016	767.9	0.00126	-0.00050	-0.00126			
Sn	0.00153	42.51	0.00175	0.00079	0.00204			
Ti	0.00005	190.0	-0.00005	0.00013	0.00007			
X Tl	0.00115	50.39	0.00088	0.00076	0.00182			
V	0.00050	32.34	0.00035	0.00067	0.00048			
Y	115879.33593	0.389	116326.00000	115889.00000	115423.00000			
Zn	0.00329	4.456	0.00332	0.00342	0.00313			

AR305225

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 21 2537158 w - $\lambda\phi\phi$ 07/17/96 16:14
 ****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00022	75.70	0.00041	0.00012	0.00012	_____	_____
__Al	-0.02722	3.600	-0.02730	-0.02621	-0.02816	_____	_____
__As	0.00005	2724.	-0.00151	0.00059	0.00107	_____	_____
__Ba	0.01576	0.176	0.01573	0.01576	0.01579	_____	_____
__Be	0.00071	14.73	0.00083	0.00065	0.00065	_____	_____
__Ca	23.06017	1.222	22.77127	23.07447	23.33476	_____	_____
__Cd	0.00018	122.6	-0.00007	0.00029	0.00033	_____	_____
__Co	-0.00050	38.82	-0.00043	-0.00036	-0.00073	_____	_____
__Cr	-0.00179	27.94	-0.00235	-0.00163	-0.00139	_____	_____
__Cu	-0.00241	3.279	-0.00233	-0.00249	-0.00241	_____	_____
__Fe	-0.00694	48.57	-0.00757	-0.00330	-0.00996	_____	_____
__K	0.91112	0.283	0.91285	0.91236	0.90815	_____	_____
__Mg	10.79346	0.497	10.74433	10.78518	10.85086	_____	_____
__Mn	0.00034	16.79	0.00027	0.00036	0.00038	_____	_____
__Mo	0.00042	263.4	-0.00076	0.00056	0.00147	_____	_____
__Na	1.60517	5.785	1.50156	1.63300	1.68094	_____	_____
__Ni	-0.00170	47.01	-0.00262	-0.00121	-0.00126	_____	_____
X__Pb	-0.00042	168.8	0.00023	-0.00119	-0.00031	_____	_____
__Sb	0.00101	5.903	0.00097	0.00099	0.00108	_____	_____
__Se	0.00066	89.99	0.00133	0.00048	0.00018	_____	_____
__Sn	0.00063	292.8	0.00270	0.00013	-0.00092	_____	_____
__Ti	0.00007	30.33	0.00009	0.00004	0.00007	_____	_____
X__Tl	0.00096	499.6	0.00617	-0.00338	0.00010	_____	_____
__V	0.00060	48.43	0.00028	0.00067	0.00086	_____	_____
__Y	116382.00000	0.591	117109.00000	116298.00000	115739.00000	_____	_____
__Zn	0.00594	3.855	0.00575	0.00587	0.00619	_____	_____

AR305226

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LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 22 CCV

07/17/96

16:18

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.50503	0.190	0.50408	0.50601	0.50501	_____	_____
Al	23.33926	0.958	23.26510	23.59063	23.16207	_____	_____
As	0.51310	0.110	0.51347	0.51244	0.51339	_____	_____
Ba	0.50379	0.801	0.50123	0.50844	0.50168	_____	_____
Be	0.49220	0.588	0.49215	0.48934	0.49513	_____	_____
Ca	23.59464	0.624	23.62649	23.43391	23.72351	_____	_____
Cd	0.49631	0.628	0.49566	0.49356	0.49970	_____	_____
Co	0.47525	0.607	0.47565	0.47219	0.47792	_____	_____
Cr	0.50736	0.521	0.50775	0.50453	0.50979	_____	_____
Cu	0.49715	0.879	0.49501	0.50218	0.49426	_____	_____
Fe	22.83921	0.334	22.82604	22.77017	22.92140	_____	_____
K	24.83589	1.144	24.78123	25.14349	24.58295	_____	_____
Mg	23.62547	0.442	23.56625	23.74617	23.56399	_____	_____
Mn	0.49550	0.332	0.49530	0.49396	0.49724	_____	_____
Mo	0.51592	0.791	0.51131	0.51737	0.51908	_____	_____
Na	24.47210	0.595	24.52535	24.58376	24.30719	_____	_____
Ni	0.50485	0.911	0.50407	0.50069	0.50980	_____	_____
Pb	0.49966	1.078	0.49559	0.50578	0.49763	_____	_____
Sb	0.50673	1.090	0.50272	0.51304	0.50443	_____	_____
Se	0.52546	1.285	0.51966	0.53288	0.52384	_____	_____
Sn	0.49071	0.375	0.49197	0.48860	0.49156	_____	_____
Ti	0.51248	0.282	0.51083	0.51355	0.51306	_____	_____
Tl	0.50388	0.999	0.49833	0.50513	0.50817	_____	_____
V	0.48767	0.304	0.48692	0.48671	0.48938	_____	_____
Y	115723.33593	0.916	116649.00000	114566.00000	115955.00000	_____	_____
Zn	0.50280	0.393	0.50277	0.50084	0.50479	_____	_____

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 23 CCB

07/17/96

16:23

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00028	57.08	0.00046	0.00014	0.00024	_____	_____
__Al	-0.04538	5.603	-0.04433	-0.04354	-0.04828	_____	_____
__As	0.00259	58.04	0.00423	0.00227	0.00127	_____	_____
__Ba	0.00012	65.05	0.00022	0.00009	0.00006	_____	_____
__Be	0.00118	13.69	0.00136	0.00110	0.00107	_____	_____
__Ca	0.01932	17.05	0.02310	0.01700	0.01787	_____	_____
__Cd	0.00034	38.67	0.00029	0.00050	0.00024	_____	_____
__Co	-0.00037	80.02	-0.00006	-0.00066	-0.00040	_____	_____
__Cr	-0.00324	11.04	-0.00345	-0.00282	-0.00344	_____	_____
__Cu	-0.00255	13.74	-0.00215	-0.00282	-0.00267	_____	_____
__Fe	-0.00976	39.22	-0.00534	-0.01188	-0.01208	_____	_____
__K	0.05683	15.48	0.06401	0.04701	0.05946	_____	_____
__Mg	-0.02832	14.34	-0.02371	-0.02988	-0.03138	_____	_____
__Mn	-0.00003	189.0	0.00003	-0.00009	-0.00004	_____	_____
__Mo	0.00144	73.93	0.00219	0.00191	0.00022	_____	_____
__Na	0.19094	23.33	0.15265	0.18033	0.23986	_____	_____
__Ni	-0.00324	33.74	-0.00317	-0.00438	-0.00219	_____	_____
__Pb	-0.00027	255.8	0.00030	-0.00007	-0.00104	_____	_____
__Sb	0.00097	193.9	0.00192	-0.00120	0.00220	_____	_____
__Se	0.00036	401.8	-0.00132	0.00140	0.00102	_____	_____
__Sn	0.00242	31.87	0.00176	0.00327	0.00223	_____	_____
__Ti	0.00024	62.70	0.00040	0.00009	0.00022	_____	_____
__Tl	0.00201	126.7	0.00451	0.00212	-0.00059	_____	_____
__V	0.00070	10.06	0.00065	0.00078	0.00066	_____	_____
__Y	117178.00000	0.685	117817.00000	117441.00000	116276.00000	_____	_____
__Zn	0.00026	79.71	0.00049	0.00020	0.00008	_____	_____

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AR305228

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 24 2537159 W-444 07/17/96 16:27
 ***100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS					
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG	
Ag	0.00020	100.1	-0.00002	0.00037	0.00025	_____	_____	
Al	-0.01467	30.48	-0.01967	-0.01328	-0.01105	_____	_____	
As	0.00139	124.0	0.00278	-0.00054	0.00195	_____	_____	
Ba	0.01681	0.882	0.01665	0.01686	0.01693	_____	_____	
Be	0.00018	117.9	0.00043	0.00007	0.00003	_____	_____	
Ca	23.57103	0.561	23.52231	23.72076	23.47002	_____	_____	
Cd	0.00045	31.00	0.00051	0.00056	0.00029	_____	_____	
Co	-0.00061	60.63	-0.00087	-0.00077	-0.00018	_____	_____	
Cr	-0.00206	26.61	-0.00144	-0.00230	-0.00246	_____	_____	
Cu	-0.00309	7.795	-0.00292	-0.00337	-0.00299	_____	_____	
Fe	-0.01324	24.98	-0.01684	-0.01032	-0.01258	_____	_____	
K	0.90943	0.736	0.90229	0.91044	0.91557	_____	_____	
Mg	10.94849	0.571	10.87659	10.99009	10.97880	_____	_____	
Mn	0.00003	57.90	0.00003	0.00005	0.00001	_____	_____	
Mo	0.00029	354.4	-0.00085	0.00121	0.00053	_____	_____	
Na	1.53687	0.908	1.54834	1.52133	1.54095	_____	_____	
Ni	-0.00236	21.08	-0.00179	-0.00270	-0.00258	_____	_____	
X Pb	0.00104	42.34	0.00055	0.00117	0.00141	_____	_____	
Sb	0.00022	137.7	-0.00010	0.00026	0.00050	_____	_____	
Se	0.00031	261.7	-0.00054	0.00110	0.00038	_____	_____	
Sn	0.00337	42.07	0.00339	0.00477	0.00194	_____	_____	
Ti	0.00000	161.2	0.00000	0.00001	0.00001	_____	_____	
X Tl	-0.00008	386.9	-0.00021	0.00029	-0.00033	_____	_____	
V	0.00049	47.22	0.00055	0.00023	0.00068	_____	_____	
Y	113727.00000	0.513	114397.00000	113331.00000	113453.00000	_____	_____	
Zn	0.00428	2.698	0.00416	0.00429	0.00439	_____	_____	

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AR305229

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 25 2537160 W2015 07/17/96 16:31
 ***100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				
			#1	#2	#3	REREAD REDIG	
Ag	0.00012	239.7	0.00027	0.00031	-0.00021		
Al	-0.01544	76.73	-0.00186	-0.02370	-0.02075		
As	-0.00233	60.72	-0.00078	-0.00264	-0.00356		
Ba	0.01570	1.710	0.01599	0.01546	0.01565		
Be	0.00014	344.6	-0.00041	0.00036	0.00047		
Ca	33.10220	1.798	33.77754	32.65372	32.87535		
Cd	0.00044	29.53	0.00035	0.00038	0.00060		
Co	-0.00021	208.7	-0.00003	0.00011	-0.00071		
Cr	-0.00326	17.55	-0.00268	-0.00328	-0.00383		
Cu	-0.00296	10.22	-0.00330	-0.00270	-0.00288		
Fe	-0.01619	51.38	-0.01288	-0.01004	-0.02567		
K	0.89910	1.126	0.90977	0.88960	0.89792		
Mg	14.49377	1.828	14.78640	14.26970	14.42520		
Mn	0.00038	6.022	0.00039	0.00040	0.00036		
Mo	-0.00016	382.8	0.00013	-0.00087	0.00025		
Na	1.22702	0.855	1.23676	1.22840	1.21589		
Ni	-0.00236	7.485	-0.00218	-0.00236	-0.00253		
Pb	0.00075	104.8	0.00159	0.00063	0.00002		
Sb	-0.00001	4593.	0.00092	-0.00048	-0.00048		
Se	0.00180	88.28	0.00130	0.00359	0.00052		
Sn	0.00270	101.5	0.00034	0.00204	0.00571		
Ti	0.00013	77.23	0.00018	0.00020	0.00001		
Tl	-0.00193	120.0	0.00038	-0.00191	-0.00427		
V	0.00029	136.8	0.00043	0.00060	-0.00016		
Y	113969.00000	1.644	111834.00000	115346.00000	114727.00000		
Zn	0.00541	1.312	0.00549	0.00536	0.00539		

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AR305230

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 26 2537161 W-20 \ 07/17/96 16:36
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00013	305.3	0.00047	0.00026	-0.00032		
Al	-0.01796	35.32	-0.01877	-0.01124	-0.02386		
As	0.00033	232.4	0.00074	-0.00056	0.00081		
Ba	0.01131	0.875	0.01132	0.01141	0.01121		
Be	0.00038	117.7	0.00030	-0.00002	0.00086		
Ca	20.79123	0.594	20.70879	20.93340	20.73150		
Cd	0.00053	28.84	0.00071	0.00047	0.00042		
Co	-0.00048	29.39	-0.00033	-0.00051	-0.00061		
Cr	-0.00206	12.02	-0.00217	-0.00223	-0.00177		
Cu	-0.00021	30.72	-0.00027	-0.00014	-0.00022		
Fe	-0.00784	112.4	-0.00784	0.00098	-0.01666		
K	7.40130	0.443	7.40190	7.43384	7.36815		
Mg	11.35407	0.619	11.30577	11.43478	11.32167		
Mn	0.00056	4.089	0.00055	0.00059	0.00054		
Mo	0.00072	57.65	0.00117	0.00035	0.00063		
Na	8.33242	0.196	8.31717	8.34974	8.33035		
Ni	-0.00253	8.940	-0.00278	-0.00234	-0.00248		
Pb	0.00031	279.3	0.00042	0.00113	-0.00061		
Sb	0.00021	796.2	0.00099	-0.00178	0.00144		
Se	0.00151	138.5	-0.00065	0.00352	0.00166		
Sn	0.00400	33.19	0.00310	0.00553	0.00338		
Ti	0.00011	108.4	0.00009	0.00024	0.00000		
Tl	0.00133	13.92	0.00115	0.00132	0.00152		
V	0.00031	10.59	0.00029	0.00029	0.00035		
Y	114864.66406	0.520	115119.00000	114182.00000	115293.00000		
Zn	0.01653	1.705	0.01633	0.01685	0.01641		

AR305231

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 27 2538139 JCFBA 07/17/96 16:40
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00026	127.5	0.00003	0.00065	0.00010		
Al	-0.04866	25.28	-0.06258	-0.03923	-0.04418		
As	0.00039	143.6	-0.00003	0.00104	0.00018		
Ba	0.00001	327.4	0.00000	0.00006	-0.00001		
Be	0.00136	37.59	0.00195	0.00099	0.00115		
Ca	0.02171	14.97	0.02163	0.02499	0.01849		
Cd	0.00012	199.8	0.00020	-0.00015	0.00032		
Co	-0.00063	104.3	-0.00101	0.00013	-0.00103		
Cr	-0.00314	6.225	-0.00301	-0.00305	-0.00337		
Cu	-0.00309	6.538	-0.00286	-0.00324	-0.00317		
Fe	-0.01171	20.68	-0.00918	-0.01195	-0.01401		
K	0.05815	3.013	0.05644	0.05995	0.05807		
Mg	-0.03268	10.93	-0.03380	-0.02868	-0.03556		
Mn	-0.00005	45.53	-0.00002	-0.00005	-0.00007		
Mo	-0.00043	72.01	-0.00061	-0.00061	-0.00007		
Na	0.17770	13.89	0.19159	0.14920	0.19232		
Ni	-0.00290	22.15	-0.00231	-0.00359	-0.00281		
Pb	0.00034	135.0	0.00028	0.00082	-0.00009		
Sb	-0.00027	216.6	0.00010	-0.00095	0.00002		
Se	-0.00014	714.5	0.00092	-0.00115	-0.00020		
Sn	0.00246	76.79	0.00462	0.00109	0.00166		
Ti	0.00012	60.55	0.00004	0.00020	0.00013		
Tl	0.00184	108.7	-0.00046	0.00284	0.00316		
V	0.00033	47.17	0.00045	0.00040	0.00015		
Y	118486.66406	1.736	120855.00000	117136.00000	117469.00000		
Zn	0.00232	5.111	0.00220	0.00244	0.00233		

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AR305232

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 28 2538140

IC 302

07/17/96

16:45

***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	-0.00005	242.0	-0.00015	-0.00009	0.00009			
Al	-0.02193	77.42	-0.04020	-0.01897	-0.00662			
As	0.00049	223.7	-0.00016	-0.00012	0.00177			
Ba	0.00740	2.222	0.00723	0.00742	0.00755			
Be	0.00055	115.3	0.00126	0.00035	0.00003			
Ca	209.79602	3.018	202.99662	210.86824	215.52317			
Cd	0.00023	58.91	0.00011	0.00038	0.00020			
Co	-0.00065	38.52	-0.00036	-0.00083	-0.00076			
Cr	-0.00340	7.012	-0.00320	-0.00366	-0.00333			
Cu	-0.00301	14.07	-0.00261	-0.00298	-0.00345			
Fe	0.07249	7.608	0.06713	0.07815	0.07218			
K	0.94453	1.233	0.93401	0.94252	0.95706			
Mg	75.65395	2.434	73.70759	75.88475	77.36951			
Mn	0.00414	2.019	0.00405	0.00414	0.00422			
Mo	0.00018	123.5	0.00021	-0.00005	0.00040			
Na	3.39222	1.988	3.31924	3.45224	3.40517			
Ni	-0.00246	12.93	-0.00218	-0.00238	-0.00281			
Pb	0.00002	4055.	0.00111	-0.00103	0.00000			
Sb	-0.00080	184.8	0.00079	-0.00106	-0.00215			
Se	-0.00034	204.7	0.00002	0.00009	-0.00115			
Sn	0.00108	229.7	0.00051	0.00381	-0.00106			
Ti	-0.00057	12.95	-0.00061	-0.00049	-0.00062			
Tl	-0.00222	202.7	0.00294	-0.00424	-0.00537			
V	0.00051	64.56	0.00075	0.00065	0.00013			
Y	113035.33593	2.305	115922.00000	112329.00000	110855.00000			
Zn	0.00469	2.676	0.00466	0.00458	0.00482			

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AR305233

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 29 2538141 *JC202* 07/17/96 16:49
 ****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	-0.00445	174.8	0.00007	-0.01345	0.00000		
Al	-0.25148	131.9	-0.01248	-0.11153	-0.63044		
As	0.01402	156.3	-0.00073	0.03920	0.00358		
Ba	0.02112	87.47	0.03345	0.03002	-0.00011		
Be	0.01249	92.40	0.00036	0.01377	0.02335		
Ca	31.20915	86.58	46.94973	46.67147	0.00625		
Cd	0.00015	91.06	0.00012	0.00031	0.00003		
Co	-0.00242	164.5	-0.00058	-0.00701	0.00030		
Cr	-0.00339	11.52	-0.00310	-0.00323	-0.00384		
Cu	0.00262	217.7	-0.00325	0.00297	0.00814		
Fe	-0.03532	169.0	-0.01960	-0.10132	0.01495		
K	0.37913	78.75	0.57345	0.52858	0.03535		
Mg	11.45997	86.94	17.14887	17.27663	-0.04559		
Mn	0.04581	87.38	0.07206	0.06564	-0.00026		
Mo	0.00039	243.3	0.00062	-0.00066	0.00123		
Na	1.87743	69.14	2.71787	2.53211	0.38230		
Ni	-0.00274	29.49	-0.00181	-0.00312	-0.00328		
Pb	0.00106	103.7	0.00178	0.00161	-0.00020	L	
Sb	0.00264	175.4	0.00167	0.00768	-0.00143		
Se	0.00165	221.9	0.00109	0.00559	-0.00171		
Sn	0.00191	53.37	0.00302	0.00102	0.00167		
Ti	-0.00161	189.4	-0.00025	-0.00510	0.00052		
Tl	0.00886	98.15	-0.00037	0.01690	0.01007	L	
V	-0.00001	1193.	-0.00015	0.00012	0.00000		
Y	216935.67187	80.89	112200.00000	119069.00000	419538.00000		
Zn	0.00384	89.25	0.00727	0.00383	0.00041		

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AR305234

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 30 2538142 JC 24 5 07/17/96 16:54
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
__Ag	0.00015	241.0	0.00054	0.00014	-0.00021	_____	_____	
__Al	-0.22726	149.3	-0.03324	-0.02938	-0.61914	_____	_____	
__As	0.00081	209.9	-0.00115	0.00167	0.00193	_____	_____	
__Ba	0.02555	86.89	0.03809	0.03865	-0.00008	_____	_____	
__Be	0.00823	150.7	0.00123	0.00090	0.02258	_____	_____	
__Ca	38.62602	86.58	57.58624	58.28022	0.01160	_____	_____	
__Cd	0.00022	34.06	0.00020	0.00030	0.00015	_____	_____	
__Co	-0.00001	1826.	0.00022	-0.00014	-0.00010	_____	_____	
__Cr	0.00050	751.1	0.00272	0.00262	-0.00385	_____	_____	
__Cu	0.00072	825.4	-0.00250	-0.00295	0.00764	_____	_____	
__Fe	-0.00264	574.4	-0.00531	-0.01629	0.01368	_____	_____	
__K	0.53495	70.14	0.75230	0.75089	0.10167	_____	_____	
__Mg	17.09535	86.79	25.47132	25.85065	-0.03592	_____	_____	
__Mn	0.00008	362.9	0.00028	0.00025	-0.00028	_____	_____	
__Mo	0.00079	33.19	0.00097	0.00049	0.00093	_____	_____	
__Na	22.12844	85.27	32.78534	33.26031	0.33968	_____	_____	
__Ni	-0.00331	18.99	-0.00269	-0.00395	-0.00329	_____	_____	
__Pb	0.00057	90.80	0.00101	0.00071	0.00000	_____	_____	
__Sb	-0.00062	149.5	0.00028	-0.00159	-0.00057	_____	_____	
__Se	0.00160	173.6	0.00352	0.00287	-0.00159	_____	_____	
__Sn	0.00229	30.72	0.00157	0.00232	0.00298	_____	_____	
__Ti	0.00010	366.1	-0.00007	-0.00015	0.00053	_____	_____	
__Tl	0.00499	64.22	0.00192	0.00472	0.00832	_____	_____	
__V	0.00008	365.2	-0.00002	0.00041	-0.00014	_____	_____	
__Y	205807.00000	74.16	118159.00000	117207.00000	382055.00000	_____	_____	
__Zn	0.00737	83.86	0.01095	0.01093	0.00023	_____	_____	

AR305235

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 31 CRI

07/17/96

16:58

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.02105	0.678	0.02121	0.02096	0.02097		
Al	-0.04397	12.25	-0.05016	-0.04143	-0.04032		
As	0.02079	7.277	0.02003	0.01981	0.02253		
Ba	-0.00004	29.57	-0.00003	-0.00006	-0.00003		
Be	0.01190	1.155	0.01205	0.01180	0.01183		
Ca	0.02846	6.509	0.03058	0.02763	0.02716		
Cd	0.01088	1.010	0.01083	0.01100	0.01080		
Co	0.10126	0.945	0.10031	0.10222	0.10126		
Cr	0.01835	2.408	0.01798	0.01884	0.01824		
Cu	0.04679	0.756	0.04640	0.04686	0.04709		
Fe	-0.02380	5.556	-0.02282	-0.02328	-0.02531		
K	0.06237	10.05	0.06902	0.06152	0.05656		
Mg	-0.03383	5.167	-0.03184	-0.03448	-0.03515		
Mn	0.03194	0.929	0.03161	0.03219	0.03202		
Mo	-0.00008	323.4	-0.00012	-0.00033	0.00020		
Na	0.17875	20.91	0.18359	0.21347	0.13918		
Ni	0.08450	1.490	0.08308	0.08546	0.08497		
Pb	0.00668	7.688	0.00636	0.00641	0.00727		
Sb	0.12699	1.966	0.12412	0.12867	0.12816		
Se	0.01151	22.47	0.01089	0.00929	0.01435		
Sn	0.00380	35.15	0.00509	0.00387	0.00242		
Ti	-0.00007	56.53	-0.00006	-0.00011	-0.00003		
Tl	0.02005	13.62	0.02143	0.01691	0.02183		
V	0.10656	1.169	0.10518	0.10761	0.10689		
Y	115448.33593	0.695	116302.00000	114707.00000	115336.00000		
Zn	0.04426	1.161	0.04369	0.04467	0.04443		

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 32 ICSA

07/17/96

17:02

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	0.00008	125.1	0.00003	0.00001	0.00021			
Al	469.06863	1.297	462.34536	470.65466	474.20590			
As	-0.00019	2038.	-0.00456	0.00051	0.00345			
Ba	0.00754	1.476	0.00741	0.00758	0.00762			
Be	0.00225	6.581	0.00238	0.00226	0.00209			
Ca	500.44049	0.700	496.53280	501.47604	503.31259			
Cd	0.00647	8.098	0.00678	0.00675	0.00586			
Co	-0.00104	59.54	-0.00168	-0.00099	-0.00044			
Cr	-0.00256	8.054	-0.00242	-0.00247	-0.00280			
Cu	-0.00441	5.857	-0.00429	-0.00423	-0.00470			
Fe	191.44921	0.800	189.71682	192.00692	192.62390			
K	0.05951	13.07	0.06345	0.05055	0.06454			
Mg	488.47442	0.961	483.18997	490.07107	492.16226			
Mn	0.00368	1.929	0.00374	0.00371	0.00360			
Mo	-0.00089	149.7	-0.00240	0.00019	-0.00048			
Na	0.19725	12.21	0.21060	0.16943	0.21171			
Ni	-0.00712	4.515	-0.00694	-0.00749	-0.00693			
Pb	0.00181	141.2	-0.00073	0.00177	0.00439			
Sb	0.00003	2503.	-0.00009	0.00088	-0.00069			
Se	-0.00856	35.87	-0.01201	-0.00613	-0.00753			
Sn	0.00322	59.07	0.00498	0.00119	0.00350			
Ti	-0.00107	12.43	-0.00113	-0.00117	-0.00092			
Tl	0.00298	60.65	0.00468	0.00108	0.00316			
V	-0.00717	9.490	-0.00647	-0.00721	-0.00783			
Y	111694.66406	0.614	112411.00000	111630.00000	111043.00000			
Zn	0.01192	0.986	0.01180	0.01195	0.01203			

AR305237

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 33 ICSAB

07/17/96

17:07

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	0.21450	0.442	0.21358	0.21443	0.21548	_____	_____	
__Al	479.37316	0.941	475.05685	478.99783	484.06478	_____	_____	
__As	0.10048	0.835	0.10144	0.10005	0.09993	_____	_____	
__Ba	0.51335	0.772	0.50940	0.51331	0.51733	_____	_____	
__Be	0.47694	0.187	0.47597	0.47773	0.47713	_____	_____	
__Ca	504.79797	0.252	503.36840	505.20489	505.82058	_____	_____	
__Cd	0.96639	0.325	0.96283	0.96880	0.96754	_____	_____	
__Co	0.45994	0.536	0.45721	0.46060	0.46201	_____	_____	
__Cr	0.50475	0.461	0.50207	0.50588	0.50630	_____	_____	
__Cu	0.53151	0.984	0.52636	0.53135	0.53683	_____	_____	
__Fe	192.61442	0.362	191.84767	192.78317	193.21243	_____	_____	
__K	0.05529	11.02	0.06232	0.05160	0.05194	_____	_____	
__Mg	496.81039	0.674	493.39770	496.93325	500.10018	_____	_____	
__Mn	0.49131	0.326	0.48958	0.49159	0.49275	_____	_____	
__Mo	-0.00102	223.5	-0.00366	0.00025	0.00034	_____	_____	
__Na	0.22136	12.78	0.22632	0.24685	0.19090	_____	_____	
__Ni	0.97208	0.232	0.96952	0.97287	0.97383	_____	_____	
__Pb	0.05345	3.076	0.05419	0.05459	0.05156	_____	_____	
__Sb	0.61148	0.926	0.60744	0.60904	0.61795	_____	_____	
__Se	0.04021	4.888	0.03813	0.04045	0.04204	_____	_____	
__Sn	0.00373	102.4	0.00749	0.00386	-0.00015	_____	_____	
__Ti	-0.00101	10.66	-0.00095	-0.00094	-0.00114	_____	_____	
__Tl	0.10344	6.845	0.09801	0.11145	0.10087	_____	_____	
__V	0.48812	0.299	0.48646	0.48868	0.48922	_____	_____	
__Y	109628.33593	0.686	110244.00000	109851.00000	108790.00000	_____	_____	
__Zn	1.01792	0.340	1.01413	1.01870	1.02092	_____	_____	

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 34 CCV

07/17/96

17:11

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
__Ag	0.51221	0.592	0.50871	0.51403	0.51390	_____	_____	
__Al	23.15719	0.284	23.15552	23.22398	23.09207	_____	_____	
__As	0.52131	1.038	0.51508	0.52489	0.52396	_____	_____	
__Ba	0.49769	0.370	0.49564	0.49923	0.49819	_____	_____	
__Be	0.51142	0.497	0.50848	0.51271	0.51306	_____	_____	
__Ca	24.98462	0.184	24.93923	25.03117	24.98345	_____	_____	
__Cd	0.51920	0.553	0.51593	0.52032	0.52134	_____	_____	
__Co	0.48472	0.644	0.48112	0.48662	0.48643	_____	_____	
__Cr	0.52983	0.449	0.52713	0.53075	0.53161	_____	_____	
__Cu	0.48453	0.575	0.48143	0.48683	0.48533	_____	_____	
__Fe	23.19369	0.384	23.09157	23.25658	23.23291	_____	_____	
__K	23.90764	0.148	23.87038	23.94103	23.91149	_____	_____	
__Mg	23.82781	0.257	23.83110	23.88740	23.76493	_____	_____	
__Mn	0.51207	0.561	0.50876	0.51363	0.51384	_____	_____	
__Mo	0.53147	1.134	0.52459	0.53585	0.53396	_____	_____	
__Na	23.89219	0.441	23.77123	23.93987	23.96548	_____	_____	
__Ni	0.52686	0.288	0.52539	0.52842	0.52677	_____	_____	
__Pb	0.50669	0.994	0.50100	0.50846	0.51060	_____	_____	
__Sb	0.50627	1.800	0.49576	0.51117	0.51190	_____	_____	
__Se	0.52232	1.431	0.51525	0.52156	0.53014	_____	_____	
__Sn	0.50654	0.503	0.50360	0.50785	0.50817	_____	_____	
__Ti	0.51638	0.546	0.51312	0.51813	0.51789	_____	_____	
__Tl	0.50330	1.296	0.49819	0.51065	0.50106	_____	_____	
__V	0.50070	0.481	0.49795	0.50170	0.50245	_____	_____	
__Y	118526.00000	0.376	118962.00000	118071.00000	118545.00000	_____	_____	
__Zn	0.52281	0.542	0.51958	0.52398	0.52487	_____	_____	

100

AR305239

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 35 CCB

07/17/96

17:16

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	0.00028	84.52	0.00055	0.00023	0.00007	_____	_____	
__Al	0.01491	41.63	0.02198	0.01245	0.01031	_____	_____	
__As	0.00125	103.1	0.00260	0.00002	0.00112	_____	_____	
__Ba	0.00014	56.95	0.00024	0.00013	0.00007	_____	_____	
__Be	0.00138	6.909	0.00149	0.00133	0.00132	_____	_____	
__Ca	0.06431	5.782	0.06858	0.06177	0.06259	_____	_____	
__Cd	0.00028	88.95	0.00000	0.00046	0.00039	_____	_____	
__Co	-0.00011	52.48	-0.00012	-0.00004	-0.00016	_____	_____	
__Cr	-0.00367	12.00	-0.00415	-0.00327	-0.00359	_____	_____	
__Cu	-0.00355	4.560	-0.00342	-0.00374	-0.00350	_____	_____	
__Fe	0.01505	22.55	0.01431	0.01875	0.01208	_____	_____	
__K	0.06081	6.154	0.06309	0.06285	0.05649	_____	_____	
__Mg	0.01586	40.87	0.02320	0.01348	0.01090	_____	_____	
__Mn	-0.00008	68.96	-0.00005	-0.00005	-0.00015	_____	_____	
__Mo	0.00119	42.92	0.00164	0.00130	0.00063	_____	_____	
__Na	0.15056	22.35	0.13215	0.18941	0.13011	_____	_____	
__Ni	-0.00408	3.004	-0.00395	-0.00408	-0.00420	_____	_____	
__Pb	0.00009	962.9	0.00070	0.00048	-0.00091	_____	_____	
__Sb	0.00111	33.53	0.00116	0.00145	0.00071	_____	_____	
__Se	0.00121	138.5	0.00099	-0.00034	0.00298	_____	_____	
__Sn	0.00239	78.46	0.00435	0.00223	0.00060	_____	_____	
__Ti	0.00017	99.81	0.00032	0.00019	-0.00001	_____	_____	
__Tl	0.00066	248.6	0.00245	0.00037	-0.00082	_____	_____	
__V	0.00023	46.47	0.00017	0.00017	0.00036	_____	_____	
__Y	115301.33593	0.205	115287.00000	115072.00000	115545.00000	_____	_____	
__Zn	0.00021	68.99	0.00038	0.00018	0.00008	_____	_____	

AR305240

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 36 2538143 JCRΦ2 07/17/96 17:20
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00045	75.13	0.00056	0.00073	0.00007		
Al	0.02159	119.4	-0.00597	0.04512	0.02563		
As	-0.00104	143.7	-0.00033	-0.00003	-0.00276		
Ba	0.03967	0.345	0.03972	0.03977	0.03951		
Be	0.00160	10.86	0.00150	0.00150	0.00180		
Ca	59.68497	0.239	59.76149	59.77360	59.51982		
Cd	0.00062	15.45	0.00051	0.00067	0.00068		
Co	0.00015	414.2	0.00040	0.00065	-0.00058		
Cr	-0.00279	13.42	-0.00265	-0.00250	-0.00321		
Cu	0.01049	1.087	0.01054	0.01057	0.01036		
Fe	0.02215	65.55	0.00543	0.03168	0.02934		
K	1.14078	0.117	1.14166	1.14144	1.13923		
Mg	15.03581	0.173	15.02055	15.06595	15.02093		
Mn	0.00012	27.47	0.00010	0.00017	0.00011		
Mo	0.00059	149.5	-0.00042	0.00097	0.00124		
Na	9.91408	0.394	9.90239	9.95775	9.88209		
Ni	0.00115	42.31	0.00104	0.00168	0.00072		
Pb	0.00274	9.179	0.00303	0.00259	0.00260		
Sb	0.00119	130.3	-0.00047	0.00144	0.00261		
Se	0.00155	28.38	0.00205	0.00136	0.00123		
Sn	0.00179	92.95	0.00127	0.00365	0.00044		
Ti	0.00013	23.20	0.00015	0.00016	0.00010		
X Tl	-0.00017	1055.	0.00043	0.00127	-0.00223		
V	0.00069	32.12	0.00092	0.00067	0.00048		
Y	116893.00000	0.744	116142.00000	116691.00000	117846.00000		
Zn	0.01811	0.421	0.01806	0.01807	0.01820		

AR305241

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 37 2538144 J C 20 9

07/17/96

17:25

***,100-100,DF1,961905720001,B,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				
			#1	#2	#3	REREAD REDIG	
Ag	0.00043	46.92	0.00051	0.00020	0.00059		
Al	-0.02467	8.957	-0.02316	-0.02721	-0.02365		
As	-0.00013	1114.	0.00082	0.00061	-0.00184		
Ba	0.05207	0.255	0.05222	0.05199	0.05199		
Be	0.00157	8.321	0.00156	0.00171	0.00145		
Ca	38.15061	0.184	38.23174	38.11217	38.10793		
Cd	0.00029	60.53	0.00044	0.00034	0.00009		
Co	-0.00004	556.6	0.00005	-0.00033	0.00014		
Cr	-0.00335	8.726	-0.00314	-0.00369	-0.00322		
Cu	-0.00291	5.866	-0.00296	-0.00272	-0.00306		
Fe	0.07088	12.08	0.06170	0.07866	0.07229		
K	0.42781	1.097	0.43323	0.42532	0.42489		
Mg	11.18710	0.264	11.21160	11.15424	11.19546		
Mn	0.04932	0.187	0.04943	0.04925	0.04929		
Mo	0.00007	863.5	0.00061	-0.00063	0.00024		
Na	5.81623	0.376	5.81226	5.79661	5.83982		
Ni	-0.00194	28.16	-0.00258	-0.00163	-0.00162		
Pb	-0.00077	63.86	-0.00132	-0.00057	-0.00040		
Sb	-0.00067	153.6	0.00025	-0.00179	-0.00048		
Se	0.00074	73.08	0.00115	0.00012	0.00093		
Sn	0.00079	100.7	-0.00011	0.00139	0.00110		
Ti	0.00003	307.0	-0.00008	0.00005	0.00014		
X Tl	0.00058	248.7	0.00095	-0.00102	0.00182		
V	0.00026	59.61	0.00024	0.00042	0.00011		
Y	118423.00000	0.250	118098.00000	118678.00000	118493.00000		
Zn	0.00918	1.374	0.00908	0.00932	0.00914		

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 38 2538145 JC 309 07/17/96 17:29
***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00022	109.2	0.00003	0.00014	0.00050			
Al	-0.03010	2.846	-0.03015	-0.03093	-0.02922			
As	0.00049	652.4	0.00164	-0.00316	0.00302			
Ba	0.01070	0.659	0.01062	0.01074	0.01074			
Be	0.00170	4.496	0.00176	0.00161	0.00172			
Ca	297.23797	2.195	289.70349	300.88021	301.13021			
Cd	0.00040	32.15	0.00029	0.00054	0.00038			
Co	-0.00018	155.4	-0.00026	-0.00043	0.00013			
Cr	-0.00298	23.22	-0.00321	-0.00220	-0.00352			
Cu	0.00053	15.37	0.00055	0.00044	0.00061			
Fe	0.09961	11.10	0.09657	0.09038	0.11187			
K	1.87765	0.704	1.89044	1.87847	1.86404			
Mg	98.28053	1.053	97.08656	98.92118	98.83384			
Mn	0.00491	1.241	0.00484	0.00496	0.00492			
Mo	0.00013	206.2	0.00029	-0.00018	0.00028			
Na	51.15703	0.215	51.04952	51.26988	51.15167			
Ni	-0.00213	26.40	-0.00275	-0.00166	-0.00197			
Pb	-0.00046	203.2	-0.00067	-0.00129	0.00057			
Sb	0.00069	237.1	-0.00118	0.00179	0.00146			
Se	0.00000	24206	0.00131	0.00107	-0.00241			
Sn	0.00270	48.48	0.00204	0.00185	0.00421			
Ti	-0.00060	2.544	-0.00060	-0.00059	-0.00062			
Tl	0.00046	35.28	0.00030	0.00045	0.00063			
V	0.00069	15.28	0.00075	0.00075	0.00056			
Y	117535.00000	0.185	117728.00000	117299.00000	117578.00000			
Zn	0.01639	1.735	0.01609	0.01641	0.01666			

AR305243

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 39 2538146 *JC212* 07/17/96 17:34
 ****,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.00019	121.1	0.00030	0.00036	-0.00007		
Al	-0.02160	45.92	-0.01034	-0.02907	-0.02539		
As	0.00119	186.3	0.00344	0.00116	-0.00101		
Ba	0.01624	0.724	0.01637	0.01617	0.01617		
Be	0.00120	27.98	0.00081	0.00133	0.00144		
Ca	308.03854	0.079	307.87219	307.92535	308.31805		
Cd	0.00019	9.465	0.00020	0.00017	0.00021		
Co	-0.00032	104.9	-0.00022	-0.00069	-0.00004		
Cr	-0.00330	9.851	-0.00366	-0.00304	-0.00320		
Cu	-0.00318	10.00	-0.00348	-0.00285	-0.00321		
Fe	0.40068	0.937	0.39974	0.40482	0.39749		
K	2.51163	1.194	2.54626	2.49420	2.49442		
Mg	100.51135	0.604	101.19715	100.04133	100.29555		
Mn	0.01564	0.573	0.01574	0.01562	0.01556		
Mo	-0.00049	191.2	-0.00036	0.00038	-0.00150		
Na	133.02178	0.886	134.32536	132.03088	132.70913		
Ni	-0.00263	32.13	-0.00284	-0.00170	-0.00335		
Pb	0.00178	38.35	0.00219	0.00099	0.00216		
Sb	0.00018	703.4	-0.00082	-0.00029	0.00169		
Se	0.00070	82.65	0.00085	0.00120	0.00006		
Sn	0.00164	33.07	0.00105	0.00174	0.00212		
Ti	-0.00077	5.144	-0.00073	-0.00081	-0.00075		
X Tl	0.00082	394.7	0.00163	0.00359	-0.00276		
V	0.00022	149.3	0.00009	0.00060	-0.00002		
Y	115209.33593	0.938	113967.00000	115727.00000	115934.00000		
Zn	0.01559	1.138	0.01545	0.01552	0.01579		

AR305244

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 40 2538147

JCTR

07/17/96

17:38

****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	#1	INTEGRATIONS #2	#3	REREAD	REDIG
Ag	-0.00029	147.0	-0.00060	0.00019	-0.00045		
Al	-0.02804	29.16	-0.03375	-0.01867	-0.03170		
As	0.00054	119.9	0.00028	0.00005	0.00127		
Ba	-0.00002	85.91	-0.00004	0.00000	-0.00001		
Be	0.00150	21.57	0.00178	0.00114	0.00159		
Ca	0.09440	37.01	0.13468	0.07235	0.07616		
Cd	-0.00003	781.0	-0.00001	-0.00028	0.00020		
Co	-0.00088	52.51	-0.00099	-0.00037	-0.00128		
Cr	-0.00362	4.433	-0.00344	-0.00367	-0.00375		
Cu	-0.00387	3.594	-0.00382	-0.00402	-0.00376		
Fe	-0.01344	46.02	-0.02058	-0.01001	-0.00972		
K	0.05734	2.470	0.05718	0.05883	0.05601		
Mg	-0.01085	82.17	-0.00083	-0.01791	-0.01381		
Mn	-0.00018	26.21	-0.00022	-0.00013	-0.00018		
Mo	-0.00045	165.4	0.00038	-0.00104	-0.00070		
Na	0.17053	14.33	0.16578	0.19700	0.14881		
Ni	-0.00292	24.37	-0.00359	-0.00217	-0.00298		
Pb	0.00014	410.6	0.00078	-0.00002	-0.00033		
Sb	0.00116	116.5	0.00014	0.00271	0.00065		
Se	0.00155	57.81	0.00124	0.00256	0.00085		
Sn	0.00108	98.81	0.00232	0.00050	0.00043		
Ti	-0.00004	144.6	-0.00011	0.00002	-0.00004		
Tl	-0.00228	93.85	-0.00142	-0.00473	-0.00070		
V	0.00015	141.6	0.00034	0.00022	-0.00009		
Y	116523.33593	0.891	117282.00000	115339.00000	116949.00000		
Zn	0.00097	16.95	0.00078	0.00106	0.00107		

AR305245

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 41 2538234

JCFBB

07/17/96

17:42

****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00016	40.25	0.00024	0.00011	0.00014	_____	_____	
Al	-0.04096	3.488	-0.04192	-0.03932	-0.04163	_____	_____	
As	0.00029	429.7	0.00086	-0.00114	0.00115	_____	_____	
Ba	0.00001	82.12	0.00002	0.00000	0.00000	_____	_____	
Be	0.00173	10.58	0.00193	0.00167	0.00158	_____	_____	
Ca	0.04185	6.110	0.04476	0.04084	0.03996	_____	_____	
Cd	0.00014	176.4	0.00019	-0.00012	0.00035	_____	_____	
Co	-0.00071	27.37	-0.00088	-0.00050	-0.00074	_____	_____	
Cr	-0.00304	3.740	-0.00291	-0.00314	-0.00306	_____	_____	
Cu	-0.00368	6.767	-0.00340	-0.00388	-0.00376	_____	_____	
Fe	-0.00382	30.86	-0.00518	-0.00312	-0.00315	_____	_____	
K	0.06570	5.073	0.06951	0.06331	0.06428	_____	_____	
Mg	-0.02793	5.712	-0.02619	-0.02827	-0.02933	_____	_____	
Mn	-0.00013	29.13	-0.00013	-0.00017	-0.00009	_____	_____	
Mo	-0.00075	31.08	-0.00065	-0.00059	-0.00102	_____	_____	
Na	0.20902	3.977	0.21051	0.20006	0.21648	_____	_____	
Ni	-0.00247	10.82	-0.00246	-0.00221	-0.00275	_____	_____	
Pb	0.00033	282.2	0.00075	0.00097	-0.00073	✓	_____	
Sb	-0.00043	114.9	-0.00100	-0.00010	-0.00018	_____	_____	
Se	-0.00012	789.4	0.00098	-0.00099	-0.00036	_____	_____	
Sn	0.00305	49.50	0.00298	0.00157	0.00459	_____	_____	
Ti	0.00004	141.4	-0.00002	0.00006	0.00009	_____	_____	
Tl	-0.00076	279.0	0.00090	-0.00002	-0.00318	_____	_____	
V	0.00019	71.43	0.00027	0.00028	0.00003	_____	_____	
Y	118094.33593	0.543	118794.00000	117956.00000	117533.00000	_____	_____	
Zn	0.00155	6.379	0.00155	0.00145	0.00165	_____	_____	

AR305246

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 42 2538235 *TC 210* 07/17/96 17:47
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	-0.00264	14.19	-0.00229	-0.00259	-0.00304		
Al	0.02224	22.11	0.02686	0.02278	0.01707		
As	0.02505	12.65	0.02324	0.02871	0.02319		
Ba	0.03620	0.146	0.03621	0.03625	0.03614		
Be	0.00062	43.11	0.00032	0.00070	0.00084		
Ca	2.68354	0.396	2.67196	2.69284	2.68584		
Cd	0.00024	60.12	0.00007	0.00034	0.00030		
Co	0.06802	0.365	0.06828	0.06779	0.06799		
Cr	0.00084	34.71	0.00056	0.00114	0.00081		
Cu	0.00033	89.03	0.00011	0.00067	0.00021		
Fe	0.38280	1.837	0.39073	0.38037	0.37730		
K	3.54941	0.542	3.56673	3.55284	3.52866		
Mg	6.08654	0.274	6.06842	6.10142	6.08978		
Mn	0.00371	2.220	0.00362	0.00377	0.00374		
Mo	0.05696	0.551	0.05670	0.05687	0.05731		
Na	1148.78881	0.183	1150.27185	1149.72460	1146.36987		
Ni	0.23125	0.492	0.22994	0.23177	0.23204		
Pb	-0.00014	239.4	-0.00036	-0.00032	0.00025		
Sb	-0.00139	58.87	-0.00068	-0.00119	-0.00229		
Se	0.00108	56.57	0.00115	0.00165	0.00043		
Sn	0.00575	33.32	0.00479	0.00450	0.00795		
Ti	0.00130	10.75	0.00146	0.00123	0.00120		
<u>X</u> Tl	0.00204	95.97	0.00273	0.00357	-0.00016		
V	0.00363	3.166	0.00350	0.00370	0.00369		
Y	112145.33593	0.139	112266.00000	111968.00000	112202.00000		
Zn	0.00868	0.787	0.00864	0.00876	0.00864		

AR305247

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 43 2538236

07/17/96

17:51

****,100-100,DF1,961905720001,8,,

J C 211

ELEM	AVG		#1	INTEGRATIONS			REREAD	REDIG
	(ppm)	%RSD		#2	#3			
Ag	-0.00564	7.604	-0.00611	-0.00528	-0.00551			
Al	0.01381	69.07	0.01829	0.02030	0.00285			
As	0.50271	1.470	0.49632	0.51081	0.50099			
Ba	0.08294	1.027	0.08267	0.08390	0.08226			
Be	0.00254	10.56	0.00275	0.00224	0.00264			
Ca	16.66780	1.562	16.36964	16.85037	16.78338			
Cd	0.00014	166.1	0.00035	-0.00011	0.00018			
Co	0.56254	1.235	0.55493	0.56854	0.56416			
Cr	0.00442	10.26	0.00474	0.00390	0.00462			
Cu	-0.00041	50.88	-0.00031	-0.00066	-0.00028			
Fe	0.88742	2.965	0.85763	0.89714	0.90749			
K	6.86569	2.103	6.97783	6.91650	6.70274			
Mg	85.82468	1.106	84.87926	86.77825	85.81653			
Mn	0.00370	1.977	0.00364	0.00369	0.00378			
Mo	0.03489	1.392	0.03470	0.03453	0.03545			
Na	1719.21508	0.658	1722.21789	1728.72363	1706.70361			
Ni	0.65125	1.365	0.64105	0.65736	0.65535			
Pb	0.00246	50.89	0.00191	0.00157	0.00389			
Sb	-0.00137	107.4	-0.00202	-0.00241	0.00031			
Se	0.01184	9.671	0.01170	0.01305	0.01077			
Sn	0.01096	13.11	0.01261	0.00995	0.01032			
Ti	0.00742	1.906	0.00726	0.00745	0.00754			
Tl	0.00300	126.9	0.00513	-0.00140	0.00529			
V	0.01791	1.545	0.01799	0.01760	0.01814			
Y	109701.00000	0.991	110928.00000	108857.00000	109318.00000			
Zn	0.01187	0.797	0.01180	0.01197	0.01183			

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 44 2538237

J C 4 φ 6

07/17/96

17:56

***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
Ag	0.00021	44.73	0.00015	0.00016	0.00032	_____	_____	
Al	-0.04040	38.92	-0.05849	-0.02994	-0.03278	_____	_____	
As	0.00029	548.6	-0.00149	0.00162	0.00074	_____	_____	
Ba	0.06943	1.884	0.06792	0.07018	0.07020	_____	_____	
Be	0.00192	29.01	0.00256	0.00160	0.00159	_____	_____	
Ca	73.11898	0.181	73.26224	73.00041	73.09431	_____	_____	
Cd	0.00043	51.53	0.00031	0.00029	0.00069	_____	_____	
Co	0.00064	46.08	0.00081	0.00030	0.00081	_____	_____	
Cr	-0.00324	7.189	-0.00329	-0.00345	-0.00299	_____	_____	
Cu	0.00108	30.66	0.00144	0.00101	0.00078	_____	_____	
Fe	-0.00673	80.48	-0.00752	-0.00095	-0.01170	_____	_____	
K	0.80611	2.998	0.78580	0.79969	0.83284	_____	_____	
Mg	30.37825	1.326	29.91295	30.61575	30.60604	_____	_____	
Mn	0.00184	0.971	0.00184	0.00183	0.00186	_____	_____	
Mo	0.00110	106.4	-0.00014	0.00217	0.00127	_____	_____	
Na	29.81898	0.816	29.64734	30.09762	29.71199	_____	_____	
Ni	-0.00250	7.512	-0.00233	-0.00246	-0.00270	_____	_____	
Pb	0.00019	295.2	0.00008	0.00082	-0.00032	_____	_____	
Sb	-0.00196	85.78	-0.00309	-0.00275	-0.00002	_____	_____	
Se	0.00069	64.99	0.00057	0.00119	0.00031	_____	_____	
Sn	0.00380	60.21	0.00627	0.00335	0.00176	_____	_____	
Ti	-0.00013	83.25	-0.00012	-0.00002	-0.00025	_____	_____	
X TL	0.00194	80.86	0.00368	0.00062	0.00152	_____	_____	
V	0.00032	11.83	0.00034	0.00034	0.00027	_____	_____	
Y	118505.33593	0.441	117907.00000	118729.00000	118880.00000	_____	_____	
Zn	0.01921	0.695	0.01921	0.01907	0.01934	_____	_____	

AR305249

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 45 CCV

07/17/96

18:00

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
Ag	0.52247	0.423	0.52057	0.52193	0.52490		
Al	23.07335	0.512	23.01795	22.99297	23.20913		
As	0.53959	0.859	0.53438	0.54112	0.54327		
Ba	0.50374	0.623	0.50187	0.50199	0.50736		
Be	0.52443	0.677	0.52093	0.52434	0.52803		
Ca	25.38407	0.579	25.23499	25.38808	25.52913		
Cd	0.53559	0.557	0.53349	0.53427	0.53901		
Co	0.49576	0.559	0.49303	0.49569	0.49858		
Cr	0.54722	0.761	0.54353	0.54640	0.55174		
Cu	0.48768	0.499	0.48676	0.48584	0.49044		
Fe	23.54471	0.620	23.40097	23.54018	23.69298		
K	24.15643	0.593	24.25624	23.99224	24.22080		
Mg	23.80074	0.616	23.69205	23.74240	23.96778		
Mn	0.52597	0.617	0.52294	0.52559	0.52939		
Mo	0.54391	1.169	0.53789	0.54328	0.55056		
Na	24.22838	0.705	24.25126	24.04715	24.38674		
Ni	0.54326	0.656	0.53958	0.54349	0.54671		
Pb	0.51893	1.226	0.51361	0.51720	0.52599		
Sb	0.51501	1.057	0.50993	0.51433	0.52076		
Se	0.53406	1.440	0.52553	0.53617	0.54049		
Sn	0.52236	0.826	0.51815	0.52215	0.52677		
Ti	0.52498	0.583	0.52251	0.52401	0.52840		
Tl	0.51622	1.193	0.51414	0.51137	0.52315		
V	0.51230	0.657	0.50920	0.51182	0.51589		
Y	118981.66406	0.807	119818.00000	119194.00000	117933.00000		
Zn	0.53896	0.634	0.53565	0.53874	0.54248		

AR305250

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 46 CCB

07/17/96

18:05

ELEMENT	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00041	13.96	0.00046	0.00042	0.00035		
Al	-0.00902	84.80	-0.00095	-0.00994	-0.01617		
As	0.00168	105.9	-0.00020	-0.00334	0.00192		
Ba	0.00011	51.51	0.00016	0.00013	0.00004		
Be	0.00096	2.576	0.00099	0.00095	0.00094		
Ca	0.02051	19.83	0.02517	0.01765	0.01871		
Cd	0.00035	75.96	0.00025	0.00066	0.00015		
Co	-0.00068	57.44	-0.00112	-0.00054	-0.00037		
Cr	-0.00356	14.35	-0.00415	-0.00319	-0.00335		
Cu	-0.00454	1.226	-0.00451	-0.00449	-0.00460		
Fe	-0.01311	71.01	-0.01015	-0.02353	-0.00563		
K	0.06387	3.719	0.06135	0.06607	0.06418		
Mg	-0.02642	9.851	-0.02344	-0.02756	-0.02826		
Mn	-0.00012	60.21	-0.00003	-0.00016	-0.00016		
Mo	0.00084	151.8	0.00205	0.00096	-0.00049		
Na	0.28307	1.396	0.27870	0.28639	0.28410		
Ni	-0.00354	17.40	-0.00414	-0.00358	-0.00291		
Pb	-0.00019	251.8	-0.00038	-0.00058	0.00036		
Sb	0.00211	21.73	0.00237	0.00158	0.00238		
Se	0.00043	486.2	0.00216	-0.00189	0.00101		
Sn	0.00142	88.30	0.00271	0.00019	0.00136		
Ti	0.00007	74.95	0.00013	0.00004	0.00003		
Tl	0.00007	2442.	0.00000	0.00206	-0.00182		
V	0.00042	40.41	0.00035	0.00029	0.00061		
Y	114589.00000	0.334	114298.00000	114445.00000	115024.00000		
Zn	0.00037	26.39	0.00047	0.00027	0.00037		

AR305251

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 47 CRI

07/17/96

18:09

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				
			#1	#2	#3	REREAD REDIG	
Ag	0.02220	1.834	0.02177	0.02258	0.02225		
Al	-0.00184	515.4	-0.01237	0.00070	0.00612		
As	0.02403	11.11	0.02702	0.02186	0.02322		
Ba	0.00005	25.75	0.00005	0.00003	0.00006		
Be	0.01168	2.746	0.01205	0.01146	0.01153		
Ca	0.01778	6.716	0.01893	0.01786	0.01654		
Cd	0.01147	3.654	0.01140	0.01192	0.01109		
Co	0.10649	0.595	0.10588	0.10714	0.10646		
Cr	0.01963	2.496	0.01915	0.02013	0.01963		
Cu	0.04728	0.476	0.04702	0.04745	0.04735		
Fe	-0.01110	81.00	-0.01920	-0.00142	-0.01269		
K	0.06551	10.21	0.07110	0.06733	0.05810		
Mg	-0.03003	10.45	-0.03320	-0.02692	-0.02998		
Mn	0.03377	1.238	0.03348	0.03425	0.03357		
Mo	0.00069	187.9	0.00166	0.00120	-0.00078		
Na	0.25469	10.69	0.26824	0.22333	0.27249		
Ni	0.09129	1.922	0.09075	0.09325	0.08986		
Pb	0.00651	7.304	0.00662	0.00599	0.00693		
Sb	0.13111	2.014	0.12806	0.13280	0.13246		
Se	0.01173	8.822	0.01194	0.01061	0.01265		
Sn	0.00274	117.5	-0.00087	0.00530	0.00381		
Ti	0.00001	507.8	-0.00005	0.00005	0.00003		
Tl	0.01997	9.326	0.02033	0.01795	0.02163		
V	0.11241	1.112	0.11144	0.11382	0.11196		
Y	112806.66406	0.926	113990.00000	112007.00000	112423.00000		
Zn	0.04694	1.183	0.04643	0.04753	0.04687		

AR305252

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 48 ICSA

07/17/96

18:14

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00004	856.7	0.00010	-0.00033	0.00034		
Al	499.05715	1.248	492.51748	499.72573	504.92828		
As	-0.00233	210.9	0.00334	-0.00551	-0.00483		
Ba	0.00796	1.195	0.00786	0.00796	0.00805		
Be	0.00126	13.59	0.00134	0.00137	0.00106		
Ca	549.81414	1.006	545.72174	547.61254	556.10815		
Cd	0.00602	3.388	0.00626	0.00593	0.00588		
Co	-0.00109	47.72	-0.00150	-0.00128	-0.00050		
Cr	-0.00259	17.76	-0.00244	-0.00311	-0.00223		
Cu	-0.00624	4.176	-0.00597	-0.00626	-0.00649		
Fe	205.83058	0.817	204.49653	205.27391	207.72131		
K	0.07175	9.592	0.07783	0.06428	0.07312		
Mg	523.70007	1.051	518.53491	523.06805	529.49719		
Mn	0.00398	4.176	0.00416	0.00383	0.00396		
Mo	-0.00152	141.1	0.00087	-0.00217	-0.00326		
Na	0.25730	14.19	0.22752	0.24632	0.29805		
Ni	-0.00624	12.67	-0.00627	-0.00702	-0.00544		
Pb	0.00167	18.71	0.00136	0.00164	0.00199		
Sb	0.00212	99.89	0.00301	-0.00029	0.00364		
Se	-0.00845	15.94	-0.00998	-0.00744	-0.00794		
Sn	0.00479	55.86	0.00785	0.00293	0.00357		
Ti	-0.00120	6.164	-0.00120	-0.00128	-0.00113		
Tl	0.00133	52.08	0.00157	0.00055	0.00187		
V	-0.00722	7.822	-0.00658	-0.00766	-0.00741		
Y	105793.00000	0.663	106252.00000	106142.00000	104985.00000		
Zn	0.01258	1.655	0.01237	0.01258	0.01279		

AR305253

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 49 ICSAB

07/17/96

18:18

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
___Ag	0.23221	0.948	0.22988	0.23248	0.23425	_____	_____
___Al	511.29931	1.265	504.88537	511.18496	517.82757	_____	_____
___As	0.11197	2.654	0.10868	0.11277	0.11446	_____	_____
___Ba	0.54845	0.940	0.54293	0.54927	0.55314	_____	_____
___Be	0.52094	0.844	0.51597	0.52255	0.52431	_____	_____
___Ca	560.86334	1.023	554.43707	562.67578	565.47717	_____	_____
___Cd	1.06270	0.894	1.05284	1.06344	1.07181	_____	_____
___Co	0.49806	1.095	0.49198	0.49969	0.50252	_____	_____
___Cr	0.55500	0.876	0.54946	0.55702	0.55854	_____	_____
___Cu	0.56087	1.044	0.55469	0.56158	0.56634	_____	_____
___Fe	209.23194	1.113	206.62738	209.95326	211.11520	_____	_____
___K	0.06606	7.295	0.07163	0.06335	0.06321	_____	_____
___Mg	535.15087	1.021	529.19451	536.31726	539.94085	_____	_____
___Mn	0.53780	0.872	0.53263	0.53898	0.54178	_____	_____
___Mo	-0.00117	46.11	-0.00078	-0.00179	-0.00094	_____	_____
___Na	0.28927	20.02	0.35451	0.26943	0.24385	_____	_____
___Ni	1.07600	0.777	1.06690	1.07774	1.08336	_____	_____
___Pb	0.05697	3.930	0.05453	0.05893	0.05744	_____	_____
___Sb	0.65671	0.894	0.64993	0.66034	0.65986	_____	_____
___Se	0.04303	2.372	0.04275	0.04217	0.04416	_____	_____
___Sn	0.00440	81.39	0.00817	0.00102	0.00402	_____	_____
___Ti	-0.00123	9.496	-0.00112	-0.00122	-0.00135	_____	_____
___Tl	0.11020	1.105	0.10895	0.11139	0.11026	_____	_____
___V	0.53326	0.619	0.52953	0.53439	0.53584	_____	_____
___Y	103963.00000	0.679	104728.00000	103826.00000	103335.00000	_____	_____
___Zn	1.11548	0.931	1.10383	1.11882	1.12379	_____	_____

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AR305254

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 50 CCV

07/17/96

18:22

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.55688	0.133	0.55708	0.55751	0.55606	_____	_____
__Al	24.61293	0.390	24.72296	24.57087	24.54498	_____	_____
__As	0.57131	0.490	0.56939	0.57452	0.57000	_____	_____
__Ba	0.53542	0.080	0.53515	0.53592	0.53519	_____	_____
__Be	0.56118	0.530	0.55788	0.56367	0.56200	_____	_____
__Ca	27.39406	0.215	27.34294	27.45873	27.38052	_____	_____
__Cd	0.57522	0.255	0.57396	0.57683	0.57486	_____	_____
__Co	0.53052	0.438	0.52820	0.53285	0.53052	_____	_____
__Cr	0.58692	0.318	0.58483	0.58843	0.58750	_____	_____
__Cu	0.51513	0.172	0.51583	0.51543	0.51413	_____	_____
__Fe	25.15754	0.313	25.06937	25.22160	25.18167	_____	_____
__K	25.28193	0.568	25.44632	25.21881	25.18066	_____	_____
__Mg	25.52101	0.163	25.55605	25.53228	25.47468	_____	_____
__Mn	0.56424	0.320	0.56238	0.56598	0.56435	_____	_____
__Mo	0.58224	0.435	0.57956	0.58460	0.58258	_____	_____
__Na	25.29899	0.350	25.39405	25.21832	25.28460	_____	_____
__Ni	0.58355	0.267	0.58192	0.58503	0.58370	_____	_____
__Pb	0.55388	0.502	0.55069	0.55516	0.55579	_____	_____
__Sb	0.54859	0.286	0.54826	0.55029	0.54720	_____	_____
__Se	0.56692	1.153	0.55971	0.57248	0.56858	_____	_____
__Sn	0.55690	0.528	0.55365	0.55938	0.55767	_____	_____
__Ti	0.55988	0.323	0.55796	0.56157	0.56011	_____	_____
__Tl	0.54868	0.811	0.54604	0.55382	0.54619	_____	_____
__V	0.54805	0.200	0.54686	0.54901	0.54829	_____	_____
__Y	112133.00000	0.184	112344.00000	112124.00000	111931.00000	_____	_____
__Zn	0.57670	0.176	0.57555	0.57748	0.57707	_____	_____

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 51 CCB

07/17/96

18:27

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00030	176.8	0.00087	-0.00020	0.00024	_____	_____
__Al	0.05964	23.53	0.07219	0.06226	0.04448	_____	_____
__As	0.00161	112.3	0.00233	-0.00044	0.00295	_____	_____
__Ba	0.00024	53.34	0.00039	0.00019	0.00014	_____	_____
__Be	0.00081	56.66	0.00028	0.00101	0.00113	_____	_____
__Ca	0.07465	18.56	0.06728	0.09064	0.06604	_____	_____
__Cd	0.00050	55.43	0.00026	0.00043	0.00081	_____	_____
__Co	0.00000	35403	0.00050	-0.00089	0.00038	_____	_____
__Cr	-0.00331	6.070	-0.00308	-0.00342	-0.00342	_____	_____
__Cu	-0.00477	6.465	-0.00510	-0.00472	-0.00449	_____	_____
__Fe	0.01453	41.96	0.01923	0.01671	0.00764	_____	_____
__K	0.07275	10.74	0.08168	0.06945	0.06713	_____	_____
__Mg	0.02576	36.37	0.02441	0.03574	0.01714	_____	_____
__Mn	0.00003	161.0	0.00010	0.00001	-0.00001	_____	_____
__Mo	0.00174	59.54	0.00285	0.00158	0.00079	_____	_____
__Na	0.17036	10.95	0.14992	0.17467	0.18649	_____	_____
__Ni	-0.00359	11.73	-0.00337	-0.00408	-0.00333	_____	_____
__Pb	0.00068	153.5	0.00102	0.00153	-0.00049	_____	_____
__Sb	0.00189	59.46	0.00271	0.00060	0.00237	_____	_____
__Se	0.00097	36.49	0.00137	0.00067	0.00088	_____	_____
__Sn	0.00180	19.03	0.00213	0.00184	0.00144	_____	_____
__Ti	0.00016	111.5	0.00037	0.00003	0.00008	_____	_____
__Tl	0.00503	54.90	0.00781	0.00229	0.00497	_____	_____
__V	0.00053	18.45	0.00052	0.00063	0.00043	_____	_____
__Y	112000.33593	1.610	109932.00000	113248.00000	112821.00000	_____	_____
__Zn	0.00090	12.93	0.00096	0.00097	0.00076	_____	_____

Data Reviewed by:

[Signature] 7-17-96

Data Verified by:

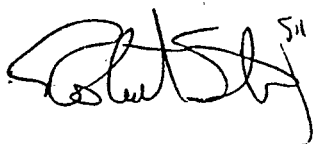
[Signature] 7-18-96

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AR305256

Lancaster Laboratories

Data Reviewed By:

 7-20-96

Data Verified By:

 7-23-96

Data File Name: 20104T61.DAT

Analyst: 811

Run Name: 9620104T61

Instrument Parameters:

Rinse Time: 30 sec
 Individual Integration Time: 10 sec
 Total Integration Time: 30 sec

Element Symbol	Element Name	Wavelength(nm)
Ag	Silver	328.06
Al	Aluminum	308.21
As	Arsenic	189.04
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	271.44
K	Potassium	766.49
Mg	Magnesium	279.07
Mn	Manganese	257.61
Mo	Molybdenum	202.03
Na	Sodium	330.23
Ni	Nickel	231.60
Pb	Lead	220.35/1
Pb	Lead	220.35/2
Sb	Antimony	206.83/1
Sb	Antimony	206.83/2
Se	Selenium	196.02/1
Se	Selenium	196.02/2
Sn	Tin	189.98
Ti	Titanium	334.94
Tl	Thallium	190.86
V	Vanadium	292.40
Y	Yttrium	371.03
Zn	Zinc	213.85

The 61E TRACE ICP uses a Crawford-Kunselman Noise Reduction Technique for lead, antimony, and selenium. This requires the utilization of the first and second order wavelengths in the calculation of each of these metal determinations. The 61E TRACE ICP also utilizes Yttrium as an internal standard to compensate for fluctuations in nebulization and plasma conditions. All Yttrium readings are expressed in counts.

AR305257

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 1 S0

07/19/96

20:45

ELEM	CONC (ppm)	AVG		INTEGRATIONS		
		INTENSITY RATIO	%RSD	#1	#2	#3
__Ag	0.000	-0.00031	20.48	-0.00027	-0.00038	-0.00027
__Al	0.000	0.01013	0.070	0.01014	0.01012	0.01013
__As	0.000	-0.00054	68.40	-0.00081	-0.00070	-0.00011
__Ba	0.000	0.00014	5.388	0.00013	0.00015	0.00015
__Be	0.000	-0.06456	0.506	-0.06435	-0.06438	-0.06493
__Ca	0.000	-0.00095	0.559	-0.00095	-0.00095	-0.00094
__Cd	0.000	0.00026	29.41	0.00028	0.00018	0.00033
__Co	0.000	-0.00024	29.59	-0.00015	-0.00028	-0.00028
__Cr	0.000	0.00001	407.2	-0.00003	0.00007	0.00000
__Cu	0.000	-0.00315	1.142	-0.00312	-0.00314	-0.00319
__Fe	0.000	-0.00005	37.31	-0.00007	-0.00005	-0.00003
__K	0.000	0.00179	7.760	0.00171	0.00196	0.00172
__Mg	0.000	0.00011	23.52	0.00008	0.00014	0.00011
__Mn	0.000	0.00021	6.472	0.00019	0.00022	0.00021
__Mo	0.000	-0.00070	24.66	-0.00062	-0.00058	-0.00088
__Na	0.000	-0.00061	12.38	-0.00066	-0.00052	-0.00066
__Ni	0.000	0.00002	316.6	-0.00003	0.00008	0.00001
__Pb	0.000	0.00314	24.25	0.00241	0.00394	0.00308
__Sb	0.000	0.00038	62.69	0.00064	0.00016	0.00035
__Se	0.000	-0.00204	25.76	-0.00265	-0.00176	-0.00171
__Sn	0.000	-0.00013	54.55	-0.00009	-0.00021	-0.00008
__Ti	0.000	-0.00049	3.724	-0.00048	-0.00052	-0.00049
__Tl	0.000	-0.00145	8.445	-0.00131	-0.00154	-0.00149
__V	0.000	0.00001	172.8	-0.00001	0.00004	0.00001
__Y	N/A	150279.00000	0.232	150669.00000	149993.00000	150175.00000
__Zn	0.000	-0.00005	19.72	-0.00005	-0.00004	-0.00005

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 2 S1 S

07/19/96

20:50

ELEM	CONC (ppm)	AVG INTENSITY		%RSD	INTEGRATIONS		
		RATIO			#1	#2	#3
Al	50.000	0.53318	0.778		0.53553	0.53561	0.52838
Ca	50.000	0.41088	0.620		0.40827	0.41099	0.41337
Fe	50.000	0.11683	0.558		0.11611	0.11701	0.11738
K	50.000	1.17752	0.948		1.18428	1.18365	1.16463
Mg	50.000	0.48405	0.361		0.48422	0.48571	0.48223
Na	50.000	0.09166	1.356		0.09280	0.09183	0.09034
Y	N/A	148525.32812	0.536	148640.00000	147678.00000	149258.00000	

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 0547

Tube: 3 S2

07/19/96

20:54

ELEM	CONC (ppm)	AVG		INTEGRATIONS		
		INTENSITY RATIO	%RSD	#1	#2	#3
__Ag	1.000	0.16032	0.153	0.16055	0.16035	0.16006
__As	1.000	0.18539	0.223	0.18499	0.18535	0.18582
__Ba	1.000	0.21527	0.385	0.21609	0.21530	0.21443
__Be	1.000	2.56620	0.322	2.55781	2.56644	2.57436
__Cd	1.000	0.77210	0.208	0.77052	0.77205	0.77374
__Co	1.000	0.14334	0.435	0.14264	0.14355	0.14383
__Cu	1.000	0.15222	0.499	0.15296	0.15225	0.15144
__Mn	1.000	0.65284	0.115	0.65203	0.65298	0.65352
__Ni	1.000	0.11416	0.069	0.11416	0.11409	0.11425
__Pb	1.000	0.20281	0.207	0.20330	0.20262	0.20252
__Se	1.000	0.09967	0.312	0.09997	0.09970	0.09935
__Tl	1.000	0.08421	0.499	0.08421	0.08463	0.08379
__Y	N/A	148935.32812	0.067	148912.00000	149046.00000	148848.00000
__Zn	1.000	0.06987	0.128	0.06977	0.06989	0.06995

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AR305260

LANCASTER LABORATORIES

INSTRUMENT ID: 05478

Run Name: 9619902T61

Tube: 37 2538144 J C 20 9
 ****,100-100,DF1,961905720001,8,,

07/17/96 17:25

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00043	46.92	0.00051	0.00020	0.00059		
Al	-0.02467	8.957	-0.02316	-0.02721	-0.02365		
As	-0.00013	1114.	0.00082	0.00061	-0.00184		
Ba	0.05207	0.255	0.05222	0.05199	0.05199		
Be	0.00157	8.321	0.00156	0.00171	0.00145		
Ca	38.15061	0.184	38.23174	38.11217	38.10793		
Cd	0.00029	60.53	0.00044	0.00034	0.00009		
Co	-0.00004	556.6	0.00005	-0.00033	0.00014		
Cr	-0.00335	8.726	-0.00314	-0.00369	-0.00322		
Cu	-0.00291	5.866	-0.00296	-0.00272	-0.00306		
Fe	0.07088	12.08	0.06170	0.07866	0.07229		
K	0.42781	1.097	0.43323	0.42532	0.42489		
Mg	11.18710	0.264	11.21160	11.15424	11.19546		
Mn	0.04932	0.187	0.04943	0.04925	0.04929		
Mo	0.00007	863.5	0.00061	-0.00063	0.00024		
Na	5.81623	0.376	5.81226	5.79661	5.83982		
Ni	-0.00194	28.16	-0.00258	-0.00163	-0.00162		
Pb	-0.00077	63.86	-0.00132	-0.00057	-0.00040		
Sb	-0.00067	153.6	0.00025	-0.00179	-0.00048		
Se	0.00074	73.08	0.00115	0.00012	0.00093		
Sn	0.00079	100.7	-0.00011	0.00139	0.00110		
Tl	0.00003	307.0	-0.00008	0.00005	0.00014		
X Tl	0.00058	248.7	0.00095	-0.00102	0.00182		
V	0.00026	59.61	0.00024	0.00042	0.00011		
Y	118423.00000	0.250	118098.00000	118678.00000	118493.00000		
Zn	0.00918	1.374	0.00908	0.00932	0.00914		

LANCASTER LABORATORIES

Run Name: 9619902T61

INSTRUMENT ID: 05478

Tube: 38 2538145 *JL 309* 07/17/96 17:29
 ****,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
___Ag	0.00022	109.2	0.00003	0.00014	0.00050	_____	_____	
___Al	-0.03010	2.846	-0.03015	-0.03093	-0.02922	_____	_____	
___As	0.00049	652.4	0.00164	-0.00316	0.00302	_____	_____	
___Ba	0.01070	0.659	0.01062	0.01074	0.01074	_____	_____	
___Be	0.00170	4.496	0.00176	0.00161	0.00172	_____	_____	
___Ca	297.23797	2.195	289.70349	300.88021	301.13021	_____	_____	
___Cd	0.00040	32.15	0.00029	0.00054	0.00038	_____	_____	
___Co	-0.00018	155.4	-0.00026	-0.00043	0.00013	_____	_____	
___Cr	-0.00298	23.22	-0.00321	-0.00220	-0.00352	_____	_____	
___Cu	0.00053	15.37	0.00055	0.00044	0.00061	_____	_____	
___Fe	0.09961	11.10	0.09657	0.09038	0.11187	_____	_____	
___K	1.87765	0.704	1.89044	1.87847	1.86404	_____	_____	
___Mg	98.28053	1.053	97.08656	98.92118	98.83384	_____	_____	
___Mn	0.00491	1.241	0.00484	0.00496	0.00492	_____	_____	
___Mo	0.00013	206.2	0.00029	-0.00018	0.00028	_____	_____	
___Na	51.15703	0.215	51.04952	51.26988	51.15167	_____	_____	
___Ni	-0.00213	26.40	-0.00275	-0.00166	-0.00197	_____	_____	
___Pb	-0.00046	203.2	-0.00067	-0.00129	0.00057	_____	_____	
___Sb	0.00069	237.1	-0.00118	0.00179	0.00146	_____	_____	
___Se	0.00000	24206	0.00131	0.00107	-0.00241	_____	_____	
___Sn	0.00270	48.48	0.00204	0.00185	0.00421	_____	_____	
___Ti	-0.00060	2.544	-0.00060	-0.00059	-0.00062	_____	_____	
___Tl	0.00046	35.28	0.00030	0.00045	0.00063	_____	_____	
___V	0.00069	15.28	0.00075	0.00075	0.00056	_____	_____	
___Y	117535.00000	0.185	117728.00000	117299.00000	117578.00000	_____	_____	
___Zn	0.01639	1.735	0.01609	0.01641	0.01666	_____	_____	

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 6 ICB

07/19/96

21:06

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	0.00051	187.4	0.00081	-0.00056	0.00128			
__Al	0.00771	281.1	0.00172	0.03178	-0.01035			
__As	0.00019	587.9	0.00001	0.00145	-0.00087			
__Ba	0.00035	13.04	0.00040	0.00030	0.00036			
__Be	-0.00004	599.1	0.00013	0.00006	-0.00032			
__Ca	0.09906	1.815	0.10113	0.09783	0.09823			
__Cd	0.00022	5.558	0.00022	0.00024	0.00021			
__Co	0.00040	180.8	0.00051	-0.00037	0.00107			
__Cr	0.00085	65.22	0.00039	0.00070	0.00147			
__Cu	0.00094	13.67	0.00085	0.00088	0.00109			
__Fe	0.05964	37.87	0.06341	0.03541	0.08011			
__K	0.06817	23.57	0.06926	0.05158	0.08367			
__Mg	0.04717	10.13	0.04767	0.04216	0.05169			
__Mn	0.00037	8.358	0.00036	0.00035	0.00041			
__Mo	0.00067	49.42	0.00092	0.00029	0.00081			
__Na	0.25827	24.92	0.20212	0.24415	0.32853			
__Ni	0.00113	65.44	0.00070	0.00070	0.00199			
__Pb	0.00007	1106.	0.00091	0.00008	-0.00077			
__Sb	-0.00098	194.3	-0.00318	0.00031	-0.00008			
__Se	-0.00181	103.0	0.00002	-0.00176	-0.00371			
__Sn	0.00254	44.97	0.00374	0.00146	0.00241			
__Ti	0.00043	49.03	0.00048	0.00020	0.00062			
__Tl	0.00229	105.1	0.00457	0.00252	-0.00022			
__V	0.00061	75.77	0.00013	0.00065	0.00105			
__Y	148981.67187	0.218	148855.00000	148739.00000	149351.00000			
__Zn	0.00055	26.37	0.00071	0.00043	0.00052			

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 7 CRI 07/19/96 21:11

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.02098	1.287	0.02078	0.02087	0.02129	_____	_____
__Al	0.00482	53.33	0.00652	0.00609	0.00186	_____	_____
__As	0.02085	4.948	0.02195	0.01990	0.02069	_____	_____
__Ba	0.00017	26.24	0.00018	0.00012	0.00021	_____	_____
__Be	0.01022	1.623	0.01031	0.01032	0.01003	_____	_____
__Ca	0.09136	0.829	0.09156	0.09052	0.09200	_____	_____
__Cd	0.00999	0.586	0.00992	0.01004	0.01001	_____	_____
__Co	0.10281	0.187	0.10292	0.10259	0.10292	_____	_____
__Cr	0.02081	2.682	0.02039	0.02144	0.02061	_____	_____
__Cu	0.05351	0.557	0.05323	0.05347	0.05382	_____	_____
__Fe	0.03555	12.06	0.04021	0.03177	0.03467	_____	_____
__K	0.06188	3.831	0.06289	0.06357	0.05917	_____	_____
__Mg	0.03325	2.146	0.03257	0.03399	0.03318	_____	_____
__Mn	0.03108	0.186	0.03111	0.03113	0.03102	_____	_____
__Mo	0.00076	75.37	0.00014	0.00087	0.00128	_____	_____
__Na	0.22448	2.163	0.22938	0.21967	0.22438	_____	_____
__Ni	0.08180	2.063	0.08136	0.08037	0.08366	_____	_____
__Pb	0.00644	18.79	0.00781	0.00554	0.00595	_____	_____
__Sb	0.12678	0.783	0.12757	0.12711	0.12567	_____	_____
__Se	0.00841	13.59	0.00971	0.00798	0.00755	_____	_____
__Sn	0.00175	131.3	0.00023	0.00441	0.00062	_____	_____
__Ti	0.00024	67.04	0.00029	0.00005	0.00036	_____	_____
__Tl	0.01923	19.89	0.01924	0.01540	0.02305	_____	_____
__V	0.10183	0.373	0.10139	0.10208	0.10202	_____	_____
__Y	149086.67187	0.325	148989.00000	148658.00000	149613.00000	_____	_____
__Zn	0.04208	0.262	0.04201	0.04221	0.04202	_____	_____

AR305264

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 8 IC5A

07/19/96

21:16

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	-0.00002	868.7	-0.00013	-0.00017	0.00023			
Al	535.40167	0.228	534.57312	534.82720	536.80462			
As	-0.00032	485.5	-0.00113	0.00148	-0.00132			
Ba	0.00800	0.271	0.00797	0.00802	0.00800			
Be	0.00030	14.59	0.00029	0.00026	0.00035			
Ca	529.48333	0.360	527.44183	529.78350	531.22467			
Cd	-0.00229	3.759	-0.00219	-0.00233	-0.00234			
Co	-0.00054	8.823	-0.00059	-0.00049	-0.00054			
Cr	0.00127	18.62	0.00152	0.00105	0.00123			
Cu	-0.00169	11.49	-0.00149	-0.00187	-0.00170			
Fe	219.51898	0.401	218.53984	219.76763	220.24946			
K	0.06019	3.090	0.06113	0.06140	0.05805			
Mg	552.35443	0.327	550.60174	552.24536	554.21624			
Mn	0.00364	2.324	0.00372	0.00356	0.00363			
Mo	-0.00155	31.03	-0.00178	-0.00189	-0.00100			
Na	0.29520	12.54	0.26279	0.33555	0.28726			
Ni	-0.00391	5.355	-0.00370	-0.00391	-0.00411			
Pb	0.00121	32.82	0.00166	0.00104	0.00092			
Sb	-0.00102	480.3	0.00416	-0.00558	-0.00164			
Se	-0.00263	140.0	-0.00320	0.00130	-0.00601			
Sn	0.00399	34.09	0.00468	0.00242	0.00488			
Ti	-0.00096	48.88	-0.00130	-0.00116	-0.00042			
Tl	0.00268	110.3	-0.00059	0.00515	0.00348			
V	0.00211	32.19	0.00285	0.00197	0.00151			
Y	140993.67187	0.345	140573.00000	140880.00000	141528.00000			
Zn	0.00276	5.963	0.00279	0.00259	0.00291			

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 9 ICSAB 07/19/96 21:21

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.21041	0.371	0.21026	0.21126	0.20972	_____	_____
__Al	524.95159	0.316	525.38659	526.34967	523.11859	_____	_____
__As	0.10049	2.537	0.10168	0.10223	0.09756	_____	_____
__Ba	0.50902	0.385	0.50992	0.51038	0.50677	_____	_____
__Be	0.47027	0.250	0.46939	0.47161	0.46982	_____	_____
__Ca	521.92712	0.266	520.68927	523.43402	521.65802	_____	_____
__Cd	0.91831	0.329	0.91637	0.92180	0.91676	_____	_____
__Co	0.47776	0.116	0.47728	0.47763	0.47836	_____	_____
__Cr	0.48542	0.307	0.48428	0.48711	0.48487	_____	_____
__Cu	0.54469	0.261	0.54535	0.54567	0.54306	_____	_____
__Fe	216.23980	0.298	215.70689	216.95703	216.05549	_____	_____
__K	0.05491	7.031	0.05062	0.05599	0.05811	_____	_____
__Mg	543.07012	0.258	542.64984	544.63439	541.92620	_____	_____
__Mn	0.48096	0.258	0.48049	0.48238	0.48003	_____	_____
__Mo	-0.00107	42.57	-0.00151	-0.00060	-0.00109	_____	_____
__Na	0.26333	12.12	0.28597	0.22681	0.27721	_____	_____
__Ni	0.92049	0.209	0.92094	0.92214	0.91838	_____	_____
__Pb	0.04935	1.958	0.04824	0.04983	0.04999	_____	_____
__Sb	0.61272	0.328	0.61163	0.61148	0.61504	_____	_____
__Se	0.04203	3.414	0.04276	0.04038	0.04295	_____	_____
__Sn	0.00130	249.3	0.00290	0.00344	-0.00243	_____	_____
__Ti	-0.00111	5.517	-0.00118	-0.00108	-0.00107	_____	_____
__Tl	0.10864	1.315	0.10725	0.10857	0.11010	_____	_____
__V	0.48456	0.171	0.48467	0.48533	0.48368	_____	_____
__Y	145938.32812	0.176	145726.00000	145864.00000	146225.00000	_____	_____
__Zn	0.96652	0.167	0.96501	0.96823	0.96632	_____	_____

AR305266

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 10 CCV

07/19/96

21:26

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
___Ag	0.50959	0.164	0.50865	0.51024	0.50989	_____	_____
___Al	25.79896	0.200	25.73937	25.82607	25.83144	_____	_____
___As	0.51543	0.242	0.51561	0.51409	0.51658	_____	_____
___Ba	0.50851	0.031	0.50839	0.50844	0.50869	_____	_____
___Be	0.54630	0.146	0.54538	0.54664	0.54686	_____	_____
___Ca	26.36136	0.268	26.31999	26.44297	26.32111	_____	_____
___Cd	0.50609	0.255	0.50753	0.50570	0.50504	_____	_____
___Co	0.52001	0.182	0.51961	0.52109	0.51932	_____	_____
___Cr	0.52045	0.115	0.51987	0.52108	0.52040	_____	_____
___Cu	0.52445	0.218	0.52328	0.52451	0.52557	_____	_____
___Fe	26.55378	0.205	26.49859	26.55510	26.60765	_____	_____
___K	22.92142	0.228	22.97289	22.86825	22.92313	_____	_____
___Mg	26.24807	0.067	26.23374	26.26793	26.24253	_____	_____
___Mn	0.51285	0.124	0.51216	0.51342	0.51298	_____	_____
___Mo	0.52554	0.430	0.52786	0.52540	0.52335	_____	_____
___Na	26.09166	0.301	26.01134	26.09514	26.16848	_____	_____
___Ni	0.50967	0.062	0.50934	0.50972	0.50997	_____	_____
___Pb	0.50651	0.806	0.50182	0.50843	0.50928	_____	_____
___Sb	0.52300	0.475	0.52508	0.52367	0.52024	_____	_____
___Se	0.50851	0.545	0.50783	0.51156	0.50615	_____	_____
___Sn	0.50889	0.154	0.50954	0.50801	0.50911	_____	_____
___Ti	0.52566	0.132	0.52490	0.52627	0.52581	_____	_____
___Tl	0.50521	1.319	0.49754	0.50849	0.50961	_____	_____
___V	0.49709	0.037	0.49728	0.49708	0.49691	_____	_____
___Y	147362.32812	0.487	146544.00000	147653.00000	147890.00000	_____	_____
___Zn	0.50718	0.242	0.50579	0.50814	0.50760	_____	_____

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 11 CCB

07/19/96 21:31

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00003	512.5	-0.00011	-0.00003	0.00026		
__Al	0.02854	55.64	0.04026	0.03489	0.01046		
__As	0.00276	27.15	0.00354	0.00268	0.00205		
__Ba	0.00021	16.09	0.00023	0.00017	0.00022		
__Be	0.00037	40.04	0.00048	0.00020	0.00043		
__Ca	0.14305	3.254	0.14843	0.14053	0.14021		
__Cd	0.00026	70.13	0.00038	0.00005	0.00035		
__Co	0.00007	656.7	-0.00025	0.00062	-0.00014		
__Cr	0.00051	57.32	0.00084	0.00038	0.00030		
__Cu	0.00201	10.13	0.00190	0.00188	0.00224		
__Fe	0.06609	7.247	0.06891	0.06056	0.06881		
__K	0.07338	6.462	0.07886	0.07064	0.07065		
__Mg	0.08342	6.136	0.08888	0.08267	0.07872		
__Mn	0.00028	8.217	0.00030	0.00028	0.00025		
__Mo	0.00043	28.06	0.00054	0.00030	0.00045		
__Na	0.29652	11.35	0.32968	0.26239	0.29749		
__Ni	0.00057	88.73	0.00040	0.00017	0.00114		
__Pb	-0.00017	881.7	0.00130	-0.00169	-0.00012		
__Sb	0.00179	11.34	0.00203	0.00169	0.00166		
__Se	-0.00181	74.29	-0.00217	-0.00032	-0.00295		
__Sn	0.00181	34.18	0.00165	0.00128	0.00249		
__Ti	0.00020	65.43	0.00018	0.00008	0.00034		
__Tl	0.00120	63.45	0.00163	0.00164	0.00032		
__V	0.00066	46.30	0.00091	0.00077	0.00032		
__Y	151237.00000	0.515	150715.00000	150863.00000	152133.00000		
__Zn	0.00033	0.379	0.00033	0.00034	0.00033		

AR305268

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 12 2538141 JC 242 07/19/96 21:36
 ***100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
Ag	0.00023	209.7	0.00012	-0.00019	0.00077		
Al	0.00735	367.4	0.02640	0.01924	-0.02357		
As	0.00132	68.43	0.00125	0.00226	0.00045		
Ba	0.03252	1.285	0.03273	0.03278	0.03203		
Be	-0.00035	131.9	-0.00063	-0.00061	0.00018		
Ca	46.51354	0.587	46.61925	46.71811	46.20325		
Cd	0.00017	79.24	0.00002	0.00021	0.00029		
Co	0.00038	128.6	0.00094	0.00001	0.00018		
Cr	0.00047	63.99	0.00053	0.00014	0.00074		
Cu	0.00214	17.68	0.00186	0.00199	0.00258		
Fe	0.04681	15.44	0.04388	0.05505	0.04151		
K	0.58518	0.586	0.58909	0.58380	0.58266		
Mg	17.82330	1.433	17.96135	17.98012	17.52841		
Mn	0.06856	0.531	0.06864	0.06887	0.06816		
Mo	0.00106	73.17	0.00035	0.00190	0.00094		
Na	3.00309	1.831	3.04130	3.02793	2.94004		
Ni	0.00098	51.32	0.00134	0.00040	0.00119		
X Pb	0.00079	42.23	0.00116	0.00072	0.00050		
Sb	0.00187	53.85	0.00101	0.00162	0.00298		
Se	0.00001	6892.	-0.00125	0.00049	0.00080		
Sn	0.00156	110.1	0.00278	-0.00040	0.00230		
Ti	0.00008	94.80	0.00015	0.00000	0.00008		
X Tl	0.00172	162.2	0.00411	-0.00136	0.00243		
V	0.00042	55.80	0.00031	0.00025	0.00069		
Y	151311.32812	1.270	150043.00000	150368.00000	153523.00000		
Zn	0.00739	2.302	0.00744	0.00753	0.00720		

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 13 2538142 JC205

07/19/96

21:41

***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
__Ag	0.00020	81.22	0.00021	0.00037	0.00003	_____	_____	
__Al	0.00550	15.60	0.00460	0.00631	0.00558	_____	_____	
__As	+0.00049	663.9	0.00205	-0.00417	0.00064	_____	_____	
__Ba	0.03846	0.105	0.03841	0.03848	0.03849	_____	_____	
__Be	-0.00058	18.77	-0.00050	-0.00054	-0.00071	_____	_____	
__Ca	60.45192	0.111	60.39908	60.42924	60.52744	_____	_____	
__Cd	0.00010	160.0	0.00006	-0.00003	0.00028	_____	_____	
__Co	0.00012	369.1	-0.00039	0.00025	0.00052	_____	_____	
__Cr	0.00620	0.722	0.00615	0.00624	0.00619	_____	_____	
__Cu	0.00195	9.471	0.00180	0.00216	0.00188	_____	_____	
__Fe	0.03655	24.24	0.03014	0.03284	0.04666	_____	_____	
__K	0.77545	0.850	0.78299	0.77260	0.77075	_____	_____	
__Mg	27.98664	0.183	27.92918	28.02787	28.00286	_____	_____	
__Mn	0.00057	8.116	0.00052	0.00062	0.00057	_____	_____	
__Mo	0.00102	37.93	0.00131	0.00058	0.00117	_____	_____	
__Na	35.76861	0.427	35.59592	35.88680	35.82313	_____	_____	
__Ni	0.00067	60.58	0.00063	0.00028	0.00110	_____	_____	
X__Pb	-0.00085	76.86	-0.00012	-0.00105	-0.00138	_____	_____	
__Sb	-0.00062	337.3	0.00118	-0.00012	-0.00294	_____	_____	
__Se	0.00311	36.65	0.00271	0.00440	0.00222	_____	_____	
__Sn	0.00153	113.8	0.00072	0.00353	0.00033	_____	_____	
__Ti	-0.00014	31.21	-0.00019	-0.00013	-0.00010	_____	_____	
X__Tl	0.00109	133.0	0.00192	-0.00058	0.00193	_____	_____	
__V	0.00003	255.1	0.00012	-0.00007	0.00006	_____	_____	
__Y	150249.00000	0.252	150588.00000	150320.00000	149839.00000	_____	_____	
__Zn	0.01015	0.390	0.01019	0.01011	0.01014	_____	_____	

AR305270

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 14 2538143 JCR 2 07/19/96 21:46

***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.00016	173.0	0.00000	0.00049	0.00000		
__Al	-0.01352	28.28	-0.00922	-0.01478	-0.01656		
__As	0.00345	53.30	0.00208	0.00554	0.00272		
__Ba	0.04008	0.398	0.03994	0.04005	0.04025		
__Be	-0.00077	8.093	-0.00076	-0.00084	-0.00071		
__Ca	62.28342	0.687	61.86098	62.27262	62.71665		
__Cd	0.00024	24.12	0.00019	0.00021	0.00030		
__Co	0.00038	61.23	0.00062	0.00038	0.00014		
__Cr	0.00105	37.14	0.00099	0.00069	0.00147		
__Cu	0.01725	1.809	0.01689	0.01744	0.01743		
__Fe	0.05226	18.40	0.04673	0.06337	0.04667		
__K	1.19010	1.516	1.19726	1.16957	1.20347		
__Mg	16.62420	0.505	16.53512	16.63550	16.70198		
__Mn	0.00023	12.67	0.00026	0.00022	0.00020		
__Mo	-0.00029	216.6	0.00010	-0.00102	0.00004		
__Na	11.16704	0.793	11.11039	11.12158	11.26915		
__Ni	0.00456	7.847	0.00429	0.00442	0.00497		
X__Pb	0.00114	34.41	0.00068	0.00139	0.00134		
__Sb	-0.00036	116.8	-0.00007	-0.00016	-0.00084		
__Se	-0.00058	263.6	0.00071	-0.00018	-0.00229		
__Sn	0.00187	84.16	0.00269	0.00288	0.00005		
__Ti	0.00009	139.6	0.00004	0.00023	0.00000		
__Tl	0.00088	310.2	-0.00014	0.00400	-0.00119		
__V	0.00056	40.78	0.00057	0.00032	0.00078		
__Y	150294.32812	0.351	150784.00000	150364.00000	149735.00000		
__Zn	0.01671	0.896	0.01689	0.01664	0.01661		

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 15 2538144 JC 269 07/19/96 21:51
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDI
			#1	#2	#3		
__Ag	-0.00002	525.7	0.00010	-0.00010	-0.00006	_____	_____
__Al	-0.02793	38.08	-0.03974	-0.02496	-0.01909	_____	_____
__As	0.00054	265.4	0.00049	0.00200	-0.00087	_____	_____
__Ba	0.05336	0.405	0.05311	0.05347	0.05349	_____	_____
__Be	-0.00068	20.06	-0.00063	-0.00058	-0.00084	_____	_____
__Ca	41.23937	0.272	41.11940	41.25699	41.34174	_____	_____
__Cd	0.00002	426.8	-0.00003	0.00015	-0.00004	_____	_____
__Co	0.00027	154.2	0.00044	0.00057	-0.00020	_____	_____
__Cr	0.00073	52.18	0.00113	0.00068	0.00037	_____	_____
__Cu	0.00292	3.939	0.00293	0.00303	0.00280	_____	_____
__Fe	0.12854	8.512	0.14021	0.11851	0.12689	_____	_____
__K	0.44692	1.086	0.45252	0.44422	0.44401	_____	_____
__Mg	12.58776	0.720	12.48350	12.63173	12.64804	_____	_____
__Mn	0.05045	0.025	0.05043	0.05046	0.05045	_____	_____
__Mo	-0.00033	180.8	0.00003	-0.00103	0.00000	_____	_____
__Na	6.64829	0.599	6.61559	6.63660	6.69268	_____	_____
__Ni	0.00258	16.44	0.00230	0.00237	0.00306	_____	_____
X__Pb	-0.00070	84.47	-0.00131	-0.00065	-0.00013	_____	_____
__Sb	0.00002	4087.	-0.00048	0.00127	-0.00070	_____	_____
__Se	0.00016	132.5	0.00018	-0.00006	0.00037	_____	_____
__Sn	0.00228	16.56	0.00221	0.00193	0.00268	_____	_____
__Ti	0.00004	358.7	0.00024	-0.00008	-0.00001	_____	_____
__Tl	0.00077	135.2	0.00113	-0.00040	0.00159	_____	_____
__V	0.00023	117.0	0.00053	0.00001	0.00014	_____	_____
__Y	151379.00000	0.289	151879.00000	151198.00000	151060.00000	_____	_____
__Zn	0.00857	1.026	0.00867	0.00851	0.00852	_____	_____

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AR305272

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 16 2538145 JC 309 07/19/96 21:56

***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	-0.00017	26.31	-0.00014	-0.00022	-0.00014			
__Al	-0.00689	93.42	-0.00015	-0.01299	-0.00753			
__As	0.00090	240.5	-0.00087	0.00333	0.00025			
__Ba	0.01118	0.215	0.01120	0.01115	0.01117			
__Be	-0.00111	6.320	-0.00118	-0.00104	-0.00111			
__Ca	322.62329	0.862	319.41879	324.03662	324.41448			
__Cd	0.00008	139.9	-0.00003	0.00019	0.00008			
__Co	0.00015	288.1	0.00000	-0.00018	0.00065			
__Cr	0.00067	72.83	0.00039	0.00125	0.00039			
__Cu	0.00648	2.254	0.00665	0.00641	0.00639			
__Fe	0.16177	3.515	0.16182	0.15605	0.16743			
__K	1.96288	0.559	1.97456	1.96131	1.95276			
__Mg	112.39610	0.329	111.98016	112.51983	112.68830			
__Mn	0.00519	0.317	0.00517	0.00518	0.00520			
__Mo	-0.00009	755.0	-0.00091	0.00022	0.00040			
__Na	57.01412	0.253	57.16190	56.87335	57.00710			
__Ni	0.00123	12.67	0.00141	0.00111	0.00117			
*__Pb	-0.00030	542.4	-0.00158	-0.00088	0.00156			
__Sb	-0.00018	1333.	0.00024	-0.00278	0.00199			
__Se	-0.00106	205.3	-0.00358	0.00036	0.00002			
__Sn	0.00102	21.45	0.00089	0.00089	0.00127			
__Ti	-0.00080	5.334	-0.00079	-0.00077	-0.00085			
__Tl	-0.00146	159.7	0.00101	-0.00178	-0.00362			
__V	0.00053	60.73	0.00016	0.00075	0.00069			
__Y	148506.32812	0.092	148452.00000	148662.00000	148405.00000			
__Zn	0.01531	1.553	0.01507	0.01533	0.01555			

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 17 2538146 Jc212 07/19/96 22:01

****,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	-0.00020	42.87	-0.00010	-0.00027	-0.00022	_____	_____
__Al	-0.02302	6.590	-0.02192	-0.02475	-0.02239	_____	_____
__As	0.00032	649.5	-0.00184	0.00231	0.00050	_____	_____
__Ba	0.01654	0.603	0.01645	0.01653	0.01665	_____	_____
__Be	-0.00089	14.75	-0.00104	-0.00086	-0.00078	_____	_____
__Ca	328.10757	0.417	326.57971	329.22921	328.51379	_____	_____
__Cd	-0.00010	59.97	-0.00018	-0.00005	-0.00009	_____	_____
__Co	0.00007	376.8	0.00004	0.00037	-0.00018	_____	_____
__Cr	0.00052	37.17	0.00031	0.00070	0.00055	_____	_____
__Cu	0.00326	0.942	0.00323	0.00329	0.00325	_____	_____
__Fe	0.53871	3.432	0.52689	0.52922	0.56002	_____	_____
__K	2.53988	0.082	2.54058	2.54154	2.53751	_____	_____
__Mg	112.65435	0.306	112.26272	112.78484	112.91550	_____	_____
__Mn	0.01593	0.415	0.01585	0.01598	0.01595	_____	_____
__Mo	-0.00107	63.28	-0.00037	-0.00111	-0.00173	_____	_____
__Na	142.14364	0.203	141.85545	142.14044	142.43504	_____	_____
__Ni	0.00010	146.0	0.00028	-0.00001	0.00004	_____	_____
✓__Pb	0.00009	915.4	-0.00015	-0.00063	0.00108	_____	_____
__Sb	-0.00049	139.3	0.00011	-0.00035	-0.00124	_____	_____
__Se	0.00001	6972.	0.00138	-0.00024	-0.00108	_____	_____
__Sn	0.00215	21.77	0.00183	0.00268	0.00192	_____	_____
__Ti	-0.00076	11.57	-0.00067	-0.00085	-0.00077	_____	_____
__Tl	0.00179	97.11	0.00013	0.00164	0.00361	_____	_____
__V	0.00034	116.4	0.00080	0.00007	0.00015	_____	_____
__Y	148670.00000	0.064	148560.00000	148710.00000	148740.00000	_____	_____
__Zn	0.01466	0.840	0.01475	0.01472	0.01452	_____	_____

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 18 2538147 JCTRI 07/19/96 22:06
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				
			#1	#2	#3	REREAD REDIG	
Ag	0.00003	781.0	0.00014	0.00022	-0.00026		
Al	-0.02862	6.921	-0.03083	-0.02802	-0.02700		
As	0.00092	21.36	0.00070	0.00099	0.00108		
Ba	0.00037	9.701	0.00034	0.00035	0.00041		
Be	-0.00075	9.765	-0.00068	-0.00082	-0.00076		
Ca	0.22614	6.960	0.23950	0.23012	0.20878		
Cd	0.00003	571.6	0.00028	-0.00011	-0.00005		
Co	0.00010	197.9	0.00003	-0.00006	0.00035		
Cr	0.00053	65.73	0.00045	0.00091	0.00022		
Cu	0.00282	3.775	0.00291	0.00270	0.00283		
Fe	0.04775	20.20	0.04685	0.03858	0.05781		
K	0.06500	4.510	0.06412	0.06827	0.06261		
Mg	0.07862	6.884	0.08349	0.07958	0.07279		
Mn	0.00023	12.43	0.00024	0.00024	0.00019		
Mo	-0.00009	421.9	-0.00018	0.00035	-0.00047		
Na	0.31464	18.09	0.38040	0.28175	0.28178		
Ni	0.00124	26.16	0.00160	0.00097	0.00115		
X Pb	-0.00018	373.5	0.00048	-0.00015	-0.00086		
Sb	-0.00103	21.96	-0.00084	-0.00128	-0.00098		
Se	-0.00117	155.0	-0.00212	-0.00232	0.00092		
Sn	0.00367	61.23	0.00286	0.00194	0.00622		
Ti	0.00017	69.56	0.00003	0.00026	0.00022		
Tl	-0.00100	159.7	0.00084	-0.00196	-0.00188		
V	0.00057	22.50	0.00044	0.00070	0.00057		
Y	151828.67187	0.130	152056.00000	151696.00000	151734.00000		
Zn	0.00162	8.770	0.00174	0.00166	0.00146		

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 19 2538234 JCFBS 07/19/96 22:11
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS.			REREAD	REDIG
			#1	#2	#3		
__Ag	-0.00053	79.53	-0.00005	-0.00087	-0.00066	_____	_____
__Al	-0.04039	7.397	-0.03974	-0.03778	-0.04365	_____	_____
__As	-0.00049	188.8	-0.00155	-0.00011	0.00018	_____	_____
__Ba	0.00012	52.37	0.00019	0.00007	0.00010	_____	_____
__Be	-0.00029	75.54	-0.00047	-0.00004	-0.00034	_____	_____
__Ca	0.14578	9.327	0.16144	0.13703	0.13886	_____	_____
__Cd	0.00000	921.9	0.00009	-0.00006	-0.00005	_____	_____
__Co	-0.00055	59.51	-0.00028	-0.00092	-0.00045	_____	_____
__Cr	0.00081	68.22	0.00144	0.00045	0.00052	_____	_____
__Cu	0.00285	11.07	0.00273	0.00321	0.00261	_____	_____
__Fe	0.03777	15.01	0.04411	0.03319	0.03600	_____	_____
__K	0.06915	5.872	0.07383	0.06666	0.06695	_____	_____
__Mg	0.04468	12.67	0.05104	0.04020	0.04278	_____	_____
__Mn	0.00016	30.18	0.00019	0.00010	0.00018	_____	_____
__Mo	-0.00069	89.41	-0.00005	-0.00129	-0.00073	_____	_____
__Na	0.31782	3.386	0.32776	0.30639	0.31933	_____	_____
__Ni	0.00049	17.48	0.00039	0.00051	0.00056	_____	_____
X__Pb	-0.00078	149.7	-0.00019	-0.00002	-0.00213	_____	_____
__Sb	0.00021	92.58	0.00044	0.00015	0.00005	_____	_____
__Se	-0.00144	79.46	-0.00139	-0.00032	-0.00262	_____	_____
__Sn	0.00175	47.57	0.00091	0.00175	0.00258	_____	_____
__Ti	-0.00001	265.1	0.00001	-0.00007	0.00000	_____	_____
__Tl	-0.00189	138.3	-0.00154	-0.00468	0.00053	_____	_____
__V	0.00056	41.43	0.00083	0.00037	0.00050	_____	_____
__Y	152264.67187	0.272	151981.00000	152072.00000	152741.00000	_____	_____
__Zn	0.00165	5.539	0.00166	0.00156	0.00175	_____	_____

19

AR305276

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 20 2538235 J C 214 07/19/96 22:16
 ***,100-100,DF1,961905720001,8,,

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	-0.00286	12.00	-0.00302	-0.00247	-0.00310			
__Al	0.02754	20.30	0.02879	0.03240	0.02143			
__As	0.02354	11.09	0.02053	0.02522	0.02486			
__Ba	0.03660	0.372	0.03650	0.03676	0.03655			
__Be	-0.00158	15.14	-0.00158	-0.00183	-0.00135			
__Ca	2.89495	0.579	2.88207	2.91393	2.88885			
__Cd	0.00010	134.8	0.00001	0.00003	0.00026			
__Co	0.07567	0.745	0.07545	0.07631	0.07524			
__Cr	0.00465	4.742	0.00490	0.00447	0.00458			
__Cu	0.00723	5.876	0.00677	0.00760	0.00733			
__Fe	0.55069	0.874	0.54515	0.55305	0.55387			
__K	3.37169	0.245	3.38008	3.37148	3.36350			
__Mg	6.94556	0.726	6.89634	6.99712	6.94321			
__Mn	0.00397	1.176	0.00391	0.00400	0.00399			
__Mo	0.05542	1.729	0.05434	0.05615	0.05578			
__Na	1216.79260	0.151	1216.53991	1218.74877	1215.08898			
__Ni	0.21953	0.889	0.21773	0.22161	0.21925			
X__Pb	-0.00037	17.00	-0.00033	-0.00034	-0.00044			
__Sb	0.00059	66.49	0.00063	0.00018	0.00096			
__Se	-0.00066	232.6	-0.00102	0.00102	-0.00199			
__Sn	0.00485	7.636	0.00510	0.00503	0.00442			
__Ti	0.00159	5.535	0.00163	0.00165	0.00149			
__Tl	0.00209	143.8	0.00248	0.00490	-0.00109			
__V	0.00388	8.336	0.00396	0.00353	0.00416			
__Y	146435.32812	0.580	146955.00000	145454.00000	146897.00000			
__Zn	0.00811	1.663	0.00796	0.00822	0.00815			

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 21 2538236 JCA11 07/19/96 22:21

***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	-0.00573	2.930	-0.00581	-0.00584	-0.00553			
Al	0.05210	20.59	0.06407	0.04889	0.04333			
As	0.47082	0.434	0.47188	0.46846	0.47213			
Ba	0.45182	0.367	0.45300	0.45253	0.44992			
Be	0.00040	53.77	0.00015	0.00049	0.00055			
Ca	18.17244	0.408	18.09079	18.19087	18.23565			
Cd	0.00004	339.1	-0.00010	0.00019	0.00004			
Co	0.61948	0.289	0.61748	0.62002	0.62095			
Cr	0.00827	7.826	0.00896	0.00768	0.00815			
Cu	0.02553	0.375	0.02556	0.02560	0.02542			
Fe	1.23416	0.279	1.23025	1.23676	1.23547			
K	8.56564	1.034	8.66624	8.53171	8.49899			
Mg	98.00502	0.024	97.97940	98.00776	98.02790			
Mn	0.00513	1.430	0.00521	0.00508	0.00509			
Mo	0.03290	2.046	0.03214	0.03343	0.03313			
Na	1839.92138	0.440	1849.27844	1835.55224	1834.93359			
Ni	0.60960	0.205	0.60824	0.60985	0.61071			
Pb	0.00130	40.84	0.00103	0.00096	0.00192			
Sb	-0.00066	427.0	-0.00279	0.00254	-0.00173			
Se	0.01112	15.52	0.01300	0.01075	0.00961			
Sn	0.00868	16.09	0.00721	0.00999	0.00883			
Ti	0.00794	1.448	0.00784	0.00791	0.00807			
Tl	0.00528	86.58	0.00177	0.00362	0.01046			
V	0.01745	0.792	0.01752	0.01729	0.01754			
Y	146674.00000	0.131	146469.00000	146701.00000	146852.00000			
Zn	0.49109	0.139	0.49052	0.49090	0.49185			

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 22 CCV

07/19/96

22:26

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	0.50608	0.489	0.50489	0.50443	0.50893	_____	_____
__Al	25.51634	1.252	25.41805	25.25749	25.87349	_____	_____
__As	0.50775	0.570	0.50662	0.50560	0.51105	_____	_____
__Ba	0.49647	0.980	0.49463	0.49279	0.50199	_____	_____
__Be	0.54955	0.583	0.54688	0.54866	0.55310	_____	_____
__Ca	26.71791	0.193	26.66551	26.71930	26.76892	_____	_____
__Cd	0.50203	0.417	0.50174	0.50009	0.50425	_____	_____
__Co	0.54161	0.354	0.54069	0.54031	0.54382	_____	_____
__Cr	0.51887	0.260	0.51817	0.51802	0.52043	_____	_____
__Cu	0.52211	1.337	0.51959	0.51674	0.53000	_____	_____
__Fe	28.10104	0.387	27.98995	28.10544	28.20773	_____	_____
__K	22.09897	1.480	22.05276	21.79740	22.44676	_____	_____
__Mg	26.24956	0.887	26.16741	26.06868	26.51260	_____	_____
__Mn	0.51225	0.317	0.51128	0.51134	0.51412	_____	_____
__Mo	0.52004	0.556	0.51709	0.52017	0.52287	_____	_____
__Na	26.82480	1.281	26.89121	26.45263	27.13057	_____	_____
__Ni	0.49947	0.410	0.49813	0.49845	0.50183	_____	_____
__Pb	0.50126	0.752	0.49836	0.49990	0.50553	_____	_____
__Sb	0.51845	0.879	0.51707	0.51473	0.52354	_____	_____
__Se	0.49692	0.869	0.49306	0.49611	0.50159	_____	_____
__Sn	0.50368	0.148	0.50346	0.50306	0.50451	_____	_____
__Ti	0.52640	0.638	0.52450	0.52442	0.53028	_____	_____
__Tl	0.49538	0.375	0.49567	0.49339	0.49707	_____	_____
__V	0.49378	0.305	0.49303	0.49280	0.49552	_____	_____
__Y	149561.00000	0.840	148109.00000	150279.00000	150295.00000	_____	_____
__Zn	0.50226	0.131	0.50160	0.50227	0.50292	_____	_____

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 23 CCB

07/19/96

22:31

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
__Ag	0.00002	687.5	-0.00016	0.00011	0.00011	_____	_____
__Al	-0.04294	7.806	-0.04456	-0.03908	-0.04517	_____	_____
__As	0.00135	67.04	0.00041	0.00223	0.00142	_____	_____
__Ba	0.00026	7.804	0.00024	0.00028	0.00024	_____	_____
__Be	-0.00045	59.27	-0.00017	-0.00049	-0.00070	_____	_____
__Ca	0.09802	1.855	0.10011	0.09718	0.09679	_____	_____
__Cd	0.00007	101.5	0.00015	0.00000	0.00006	_____	_____
__Co	-0.00006	523.8	0.00005	-0.00041	0.00018	_____	_____
__Cr	0.00032	48.71	0.00037	0.00045	0.00014	_____	_____
__Cu	0.00335	5.921	0.00350	0.00344	0.00313	_____	_____
__Fe	0.04513	15.17	0.04424	0.05237	0.03877	_____	_____
__K	0.06644	3.018	0.06538	0.06519	0.06875	_____	_____
__Mg	0.04249	4.404	0.04465	0.04146	0.04135	_____	_____
__Mn	0.00020	3.529	0.00019	0.00020	0.00020	_____	_____
__Mo	0.00008	836.5	0.00070	0.00026	-0.00070	_____	_____
__Na	0.55888	13.96	0.64743	0.52899	0.50022	_____	_____
__Ni	0.00006	1382.	0.00062	-0.00103	0.00062	_____	_____
__Pb	-0.00110	87.68	-0.00053	-0.00223	-0.00056	_____	_____
__Sb	0.00141	39.21	0.00121	0.00203	0.00098	_____	_____
__Se	-0.00114	38.58	-0.00162	-0.00076	-0.00104	_____	_____
__Sn	0.00116	209.8	0.00101	-0.00120	0.00369	_____	_____
__Ti	0.00018	35.51	0.00012	0.00017	0.00025	_____	_____
__Tl	0.00172	124.0	0.00001	0.00411	0.00104	_____	_____
__V	0.00052	75.57	0.00043	0.00095	0.00017	_____	_____
__Y	153109.00000	0.306	153522.00000	152598.00000	153207.00000	_____	_____
__Zn	0.00006	137.8	0.00015	0.00007	-0.00002	_____	_____

201

AR305280

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 24 2538237

J C 406

07/19/96

22:36

***,100-100,DF1,961905720001,8,,

ELEM	AVG		INTEGRATIONS				REREAD	REDIG
	(ppm)	%RSD	#1	#2	#3			
Ag	0.00001	2988.	0.00022	0.00022	-0.00041			
Al	-0.04405	16.11	-0.03781	-0.05177	-0.04257			
As	0.00092	43.67	0.00071	0.00067	0.00139			
Ba	0.07211	0.197	0.07202	0.07204	0.07228			
Be	-0.00063	14.69	-0.00072	-0.00062	-0.00054			
Ca	79.95903	0.453	79.56806	80.28456	80.02447			
Cd	0.00034	48.95	0.00052	0.00018	0.00032			
Co	0.00087	28.26	0.00099	0.00104	0.00059			
Cr	0.00070	53.22	0.00053	0.00114	0.00045			
Cu	0.00912	4.079	0.00884	0.00955	0.00898			
Fe	0.04592	24.00	0.04401	0.05777	0.03597			
K	0.87305	1.145	0.86964	0.88431	0.86520			
Mg	34.86872	0.338	34.82143	34.78163	35.00311			
Mn	0.00246	1.101	0.00243	0.00248	0.00245			
Mo	0.00146	59.91	0.00223	0.00051	0.00163			
Na	32.79718	0.548	32.90694	32.58952	32.89507			
Ni	0.00153	58.92	0.00051	0.00224	0.00182			
Pb	0.00001	6611.	0.00116	-0.00093	-0.00018			
Sb	-0.00030	507.9	-0.00014	-0.00191	0.00114			
Se	-0.00187	40.49	-0.00164	-0.00125	-0.00271			
Sn	0.00252	48.78	0.00324	0.00110	0.00323			
Ti	0.00000	2603.	0.00003	0.00017	-0.00022			
Tl	-0.00014	2406.	0.00371	-0.00286	-0.00128			
V	0.00059	73.13	0.00070	0.00096	0.00011			
Y	152112.00000	0.448	151557.00000	151905.00000	152874.00000			
Zn	0.02023	0.813	0.02009	0.02041	0.02019			

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AR305281

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 25 CRI

07/19/96

22:41

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
__Ag	0.02111	0.807	0.02102	0.02102	0.02131		
__Al	-0.05147	5.806	-0.04808	-0.05372	-0.05261		
__As	0.02044	4.235	0.02128	0.01955	0.02048		
__Ba	0.00007	42.34	0.00004	0.00006	0.00010		
__Be	0.00994	0.285	0.00996	0.00995	0.00991		
__Ca	0.11760	6.377	0.12615	0.11453	0.11213		
__Cd	0.01027	1.320	0.01013	0.01028	0.01040		
__Co	0.11288	0.658	0.11221	0.11275	0.11368		
__Cr	0.02139	2.698	0.02145	0.02079	0.02194		
__Cu	0.05723	0.151	0.05717	0.05718	0.05733		
__Fe	0.04270	16.86	0.03999	0.03725	0.05086		
__K	0.06309	5.847	0.06508	0.05883	0.06535		
__Mg	0.04338	3.954	0.04499	0.04358	0.04158		
__Mn	0.03175	0.387	0.03164	0.03188	0.03173		
__Mo	-0.00007	1167.	0.00012	0.00067	-0.00102		
__Na	0.33990	15.35	0.34355	0.28596	0.39018		
__Ni	0.08338	0.966	0.08419	0.08258	0.08337		
__Pb	0.00531	11.18	0.00591	0.00472	0.00532		
__Sb	0.12923	0.864	0.12966	0.12796	0.13006		
__Se	0.00757	35.92	0.01058	0.00529	0.00683		
__Sn	0.00172	45.60	0.00231	0.00083	0.00203		
__Ti	0.00011	111.2	0.00009	0.00000	0.00024		
__Tl	0.02148	6.703	0.02236	0.02227	0.01982		
__V	0.10371	0.183	0.10350	0.10379	0.10385		
__Y	152597.67187	0.109	152411.00000	152733.00000	152649.00000		
__Zn	0.04229	0.239	0.04219	0.04239	0.04231		

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AR305282

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 26 ICSA

07/19/96

22:46

ELEM	AVG (ppm)	%RSD	INTEGRATIONS			REREAD	REDIG
			#1	#2	#3		
__Ag	-0.00004	620.8	0.00028	-0.00019	-0.00023	_____	_____
__Al	544.76690	0.566	541.62377	544.88787	547.78900	_____	_____
__As	-0.00105	208.5	0.00092	-0.00066	-0.00340	_____	_____
__Ba	0.00768	0.166	0.00767	0.00767	0.00770	_____	_____
__Be	0.00045	58.04	0.00074	0.00038	0.00023	_____	_____
__Ca	557.78869	0.231	556.42059	557.96148	558.98400	_____	_____
__Cd	-0.00452	8.664	-0.00418	-0.00444	-0.00495	_____	_____
__Co	-0.00024	300.4	0.00059	-0.00060	-0.00070	_____	_____
__Cr	0.00228	10.26	0.00254	0.00222	0.00208	_____	_____
__Cu	0.00135	10.76	0.00142	0.00144	0.00118	_____	_____
__Fe	243.62535	0.281	242.94328	243.62020	244.31257	_____	_____
__K	0.05383	6.377	0.05759	0.05086	0.05305	_____	_____
__Mg	569.85052	0.480	566.96343	570.17614	572.41198	_____	_____
__Mn	0.00418	1.523	0.00425	0.00415	0.00414	_____	_____
__Mo	-0.00128	22.33	-0.00160	-0.00120	-0.00104	_____	_____
__Na	0.39642	6.171	0.39547	0.37244	0.42135	_____	_____
__Ni	-0.00445	24.70	-0.00321	-0.00533	-0.00480	_____	_____
__Pb	-0.00284	84.30	-0.00348	-0.00486	-0.00019	_____	_____
__Sb	-0.00250	51.00	-0.00303	-0.00342	-0.00104	_____	_____
__Se	0.00274	60.52	0.00405	0.00329	0.00087	_____	_____
__Sn	0.00413	79.36	0.00739	0.00082	0.00419	_____	_____
__Ti	-0.00110	12.74	-0.00111	-0.00096	-0.00124	_____	_____
__Tl	0.01505	6.231	0.01592	0.01406	0.01518	_____	_____
__V	0.00986	4.868	0.01009	0.00931	0.01019	_____	_____
__Y	145792.67187	0.199	146120.00000	145564.00000	145694.00000	_____	_____
__Zn	0.00119	21.10	0.00100	0.00148	0.00110	_____	_____

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 27 ICSAB

07/19/96

22:51

ELEM	AVG		INTEGRATIONS				
	(ppm)	%RSD	#1	#2	#3	REREAD	REDIG
___Ag	0.21774	0.308	0.21708	0.21773	0.21842	_____	_____
___Al	559.29223	0.368	557.81738	558.41528	561.64410	_____	_____
___As	0.10134	1.257	0.10280	0.10047	0.10074	_____	_____
___Ba	0.51981	0.176	0.51938	0.51917	0.52086	_____	_____
___Be	0.49612	0.153	0.49526	0.49670	0.49641	_____	_____
___Ca	566.20294	0.224	564.73779	566.97686	566.89410	_____	_____
___Cd	0.94443	0.188	0.94240	0.94520	0.94569	_____	_____
___Co	0.52745	0.150	0.52767	0.52657	0.52812	_____	_____
___Cr	0.50485	0.306	0.50360	0.50658	0.50438	_____	_____
___Cu	0.57367	0.277	0.57336	0.57225	0.57539	_____	_____
___Fe	247.33598	0.246	246.64816	247.55361	247.80618	_____	_____
___K	0.05581	9.230	0.05359	0.06170	0.05214	_____	_____
___Mg	581.04321	0.276	580.54821	579.74090	582.84057	_____	_____
___Mn	0.50264	0.216	0.50139	0.50335	0.50318	_____	_____
___Mo	-0.00069	159.3	0.00052	-0.00096	-0.00165	_____	_____
___Na	0.32611	22.66	0.27885	0.41127	0.28820	_____	_____
___Ni	0.94062	0.229	0.93863	0.94032	0.94292	_____	_____
___Pb	0.04822	3.783	0.04887	0.04616	0.04963	_____	_____
___Sb	0.64327	0.713	0.63814	0.64470	0.64697	_____	_____
___Se	0.05174	7.858	0.05518	0.04725	0.05279	_____	_____
___Sn	0.00071	268.8	0.00270	0.00054	-0.00111	_____	_____
___Ti	-0.00126	2.709	-0.00130	-0.00124	-0.00124	_____	_____
___Tl	0.11521	3.911	0.11248	0.12041	0.11273	_____	_____
___V	0.50827	0.193	0.50713	0.50878	0.50889	_____	_____
___Y	145104.67187	0.060	145157.00000	145153.00000	145004.00000	_____	_____
___Zn	0.99522	0.181	0.99317	0.99657	0.99591	_____	_____

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AR305284

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 28 CCV

07/19/96

22:56

ELEM	AVG (ppm)	%RSD	INTEGRATIONS				REREAD	REDIG
			#1	#2	#3			
__Ag	0.50823	1.845	0.51247	0.49748	0.51474	_____	_____	
__Al	26.19224	1.754	26.46887	25.66185	26.44599	_____	_____	
__As	0.51856	2.379	0.52694	0.50438	0.52434	_____	_____	
__Ba	0.49804	1.955	0.50409	0.48680	0.50322	_____	_____	
__Be	0.55621	1.992	0.56150	0.54347	0.56366	_____	_____	
__Ca	27.30514	1.917	27.57530	26.70176	27.63837	_____	_____	
__Cd	0.50328	2.053	0.50933	0.49134	0.50916	_____	_____	
__Co	0.55422	1.970	0.55913	0.54171	0.56182	_____	_____	
__Cr	0.52035	2.177	0.52523	0.50740	0.52843	_____	_____	
__Cu	0.53089	1.618	0.53567	0.52097	0.53603	_____	_____	
__Fe	28.99691	2.180	29.32424	28.26796	29.39853	_____	_____	
__K	22.30202	1.639	22.60881	21.89737	22.39989	_____	_____	
__Mg	26.91086	1.873	27.23331	26.32986	27.16941	_____	_____	
__Mn	0.51498	2.065	0.52023	0.50274	0.52197	_____	_____	
__Mo	0.52226	2.077	0.52633	0.50996	0.53048	_____	_____	
__Na	26.26729	1.531	26.42521	25.81000	26.56667	_____	_____	
__Ni	0.49979	2.038	0.50688	0.48811	0.50436	_____	_____	
__Pb	0.50202	2.425	0.50598	0.48835	0.51171	_____	_____	
__Sb	0.52916	2.346	0.53670	0.51484	0.53596	_____	_____	
__Se	0.49984	2.390	0.50304	0.48662	0.50986	_____	_____	
__Sn	0.51299	1.302	0.51683	0.50528	0.51688	_____	_____	
__Ti	0.53095	1.987	0.53615	0.51880	0.53789	_____	_____	
__Tl	0.50061	2.209	0.50046	0.48962	0.51174	_____	_____	
__V	0.49573	1.932	0.50088	0.48468	0.50163	_____	_____	
__Y	152319.00000	2.031	149899.00000	155805.00000	151253.00000	_____	_____	
__Zn	0.50361	1.925	0.50766	0.49255	0.51063	_____	_____	

906

AR305285

LANCASTER LABORATORIES

Run Name: 9620104T61

INSTRUMENT ID: 05478

Tube: 29 CCB

07/19/96 23:01

ELEM	AVG (ppm)	%RSD	INTEGRATIONS.				REREAD	REDIG
			#1	#2	#3			
__Ag	-0.00039	31.18	-0.00035	-0.00053	-0.00029			
__Al	-0.00422	276.8	0.00634	-0.00222	-0.01681			
__As	0.00105	40.30	0.00153	0.00079	0.00081			
__Ba	0.00035	18.41	0.00042	0.00031	0.00031			
__Be	-0.00034	15.56	-0.00038	-0.00028	-0.00035			
__Ca	0.15565	7.693	0.16812	0.15459	0.14424			
__Cd	0.00015	85.00	0.00027	0.00018	0.00001			
__Co	-0.00045	88.03	-0.00017	-0.00091	-0.00028			
__Cr	0.00032	74.95	0.00014	0.00060	0.00022			
__Cu	0.00429	6.158	0.00459	0.00410	0.00418			
__Fe	0.05692	29.18	0.07139	0.03877	0.06059			
__K	0.06643	11.57	0.06145	0.06256	0.07529			
__Mg	0.09059	14.03	0.10467	0.08716	0.07995			
__Mn	0.00030	15.40	0.00035	0.00030	0.00025			
__Mo	0.00042	21.25	0.00049	0.00045	0.00032			
__Na	0.26645	3.397	0.26367	0.25911	0.27656			
__Ni	0.00110	114.9	0.00101	-0.00011	0.00240			
__Pb	-0.00049	124.7	-0.00116	0.00005	-0.00038			
__Sb	-0.00013	198.4	-0.00020	0.00016	-0.00037			
__Se	-0.00144	40.75	-0.00083	-0.00149	-0.00201			
__Sn	0.00101	89.99	0.00175	0.00129	0.00000			
__Ti	0.00007	124.9	0.00015	-0.00003	0.00011			
__Tl	-0.00132	147.4	-0.00319	0.00070	-0.00148			
__V	0.00007	452.8	0.00025	0.00030	-0.00032			
__Y	153086.32812	0.523	153975.00000	152868.00000	152416.00000			
__Zn	0.00061	14.40	0.00071	0.00053	0.00061			

Data Reviewed by: *[Signature]* 7-23-96

Data Verified by: *[Signature]* 7-23-96

907

AR305286

Mercury Data

908

AR305287

LANCASTER LABORATORIES

MERCURY ANALYZER

DATA REVIEWED BY: NSM823 7/4/96

DATA VERIFIED BY: RDG114
r/skc

DATA FILE NAME: 9618602.PRN
RUN NAME: 9618602M03

INSTRUMENT NO: 05220

ANALYST: 823

ELEMENT: HG

209

AR305288

TUBE: 1 07/04/96 12:28
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0 ***** 0 0 1

AVG(ppb) Intensity
0.0000 1879.0

TUBE: 2 07/04/96 12:30
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0.2 ***** 0 0 1

AVG(ppb) Intensity
0.2000 15669.0

TUBE: 3 07/04/96 12:33
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S0.5 ***** 0 0 1

AVG(ppb) Intensity
0.5000 37229.0

TUBE: 4 07/04/96 12:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S1.0 ***** 0 0 1

AVG(ppb) Intensity
1.0000 76817.0

TUBE: 5 07/04/96 12:37
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S2.5 ***** 0 0 1

AVG(ppb) Intensity
2.5000 190607.0

TUBE: 6 07/04/96 12:40
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
S5.0 ***** 0 0 1

AVG(ppb) Intensity
5.0000 413900.0
Correlation Coefficient = 0.99916

TUBE: 7 07/04/96 12:42
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICV ***** 0 0 1

AVG(ppb) Intensity
1.8700 150293.0

*RECOVERY = 93.5

210

AR305289

TUBE: 8 07/04/96 12:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
TCR ***** 0 0 1

AVG(ppb) Intensity
0.0550 921.0

TUBE: 9 07/04/96 12:47
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CRA ***** 0 0 1

AVG(ppb) Intensity
0.2290 15237.0

TUBE: 10 07/04/96 12:50
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 1 ***** 0 0 1

AVG(ppb) Intensity
0.9180 71954.0
*RECOVERY = 91.8

TUBE: 11 07/04/96 12:52
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 1 ***** 0 0 1

AVG(ppb) Intensity
0.0600 1313.0

TUBE: 12 07/04/96 12:54
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
PBW ***** 0 0 1 961850821001

V AVG(ppb) Intensity RR RD
0.0670 1883.0

TUBE: 13 07/04/96 12:56
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ***** 1 1 1 961850821001

V AVG(ppb) Intensity RR RD
0.9220 72324.0

TUBE: 14 07/04/96 12:59
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537155 U***** 0 0 1 961850821001
w-2p4
V X AVG(ppb) Intensity RR RD
0.0720 2265.0

AR305290

RUN NAME: 9618602M03
PAGE: 3
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 15 07/04/96 13:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537155 D***** 8 8 1 961850821001

w-2040

~~U~~

AUG(ppb) Intensity RR RD
0.0710 2198.0

TUBE: 16 07/04/96 13:03
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537155 R***** 8 8 1 961850821001

w-2045

~~U~~

AUG(ppb) Intensity RR RD
0.9470 74351.0

TUBE: 17 07/04/96 13:06
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537156 ***** 8 8 1 961850821001

w-203 (3) 1/20/94

~~U~~

AUG(ppb) Intensity RR RD
0.0660 1842.0

TUBE: 18 07/04/96 13:08
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537157 ***** 8 8 1 961850821001

w-303

~~U~~

AUG(ppb) Intensity RR RD
0.0790 2895.0

TUBE: 19 07/04/96 13:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537158 ***** 8 8 1 961850821001

w-200

~~U~~

AUG(ppb) Intensity RR RD
0.0690 2089.0

TUBE: 20 07/04/96 13:12
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537159 ***** 8 8 1 961850821001

w-400

~~U~~

AUG(ppb) Intensity RR RD
0.0720 2291.0

212

AR305291

RUN NAME: 9618602M03
PAGE: 5
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 28 07/04/96 13:31
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2535306 ***** 8 8 1 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.1660 10053.0~~

TUBE: 29 07/04/96 13:33
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2535333 ***** 8 8 10 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.0030 3230.0~~

TUBE: 30 07/04/96 13:35
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2535333 ***** 8 8 100 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.0760 2667.0~~

TUBE: 31 07/04/96 13:37
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2535691 ***** 8 8 1 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.0010 3035.0~~

TUBE: 32 07/04/96 13:40
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2537311 U***** 8 8 1 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.0740 2465.0~~

TUBE: 33 07/04/96 13:42
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2537311 D***** 8 8 1 961855713001

~~ZZZZZZ~~

~~AVG (ppb) Intensity RR RD~~
~~0.0760 2658.0~~

214

AR305293

TUBE: 34 07/04/96 13:44
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 ***** 0 0 1

AVG(ppb) Intensity
0.8770 68624.0

XRECOVERY = 87.7

TUBE: 35 07/04/96 13:46
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCR 3 ***** 0 0 1

AVG(ppb) Intensity
0.0570 1110.0

TUBE: 36 07/04/96 13:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537311 R***** 8 8 1 961855713001

~~U~~
AVG(ppb) Intensity RR RD
0.9220 72301.0

TUBE: 37 07/04/96 13:51
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537311 N***** 8 8 1 961855713001

~~U~~
AVG(ppb) Intensity RR RD
0.9750 76686.0

TUBE: 38 07/04/96 13:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538099 ***** 8 8 1 961855713001

~~U~~
AVG(ppb) Intensity RR RD
0.0690 2024.0

TUBE: 39 07/04/96 13:55
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538958 ***** 8 8 1 961855713001

~~U~~
AVG(ppb) Intensity RR RD
0.0840 3258.0

TUBE: 40 07/04/96 13:58
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538959 ***** 8 8 1 961855713001

~~U~~
AVG(ppb) Intensity RR RD
0.0690 2051.0

AR305294

LANCASTER LABORATORIES

MERCURY ANALYZER

DATA REVIEWED BY: NSM823 7/5/96

DATA VERIFIED BY: RDG114
7/5/96

DATA FILE NAME: 9618701.PRN
RUN NAME: 9618701M03

INSTRUMENT NO: 05220

ANALYST: 823

ELEMENT: HG

216

AR305295

RUN NAME: 9618701M03
PAGE: 1
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 1 07/05/96 14:55
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0 ***** 0 0 1

AVG(ppb) Intensity
0.0000 2206.0

TUBE: 2 07/05/96 14:58
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0.2 ***** 0 0 1

AVG(ppb) Intensity
0.2000 18326.0

TUBE: 3 07/05/96 15:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S0.5 ***** 0 0 1

AVG(ppb) Intensity
0.5000 41433.0

TUBE: 4 07/05/96 15:02
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S1.0 ***** 0 0 1

AVG(ppb) Intensity
1.0000 87733.0

TUBE: 5 07/05/96 15:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S2.5 ***** 0 0 1

AVG(ppb) Intensity
2.5000 205998.0

TUBE: 6 07/05/96 15:07
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
S5.0 ***** 0 0 1

AVG(ppb) Intensity
5.0000 413047.0 Correlation Coefficient = 0.99993

TUBE: 7 07/05/96 15:10
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
ICV ***** 0 0 1

AVG(ppb) Intensity
1.9900 165841.0

XRECOVERY = 99.5

AR305296

RUN NAME: 9618701M03
PAGE: 2
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 8 07/05/96 15:13
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
ICR ***** 0 0 1

AVG(ppb) Intensity
0.0090 2965.0

TUBE: 9 07/05/96 15:15
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CRA ***** 0 0 1

AVG(ppb) Intensity
0.1670 15923.0

TUBE: 10 07/05/96 15:17
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 1 ***** 0 0 1

AVG(ppb) Intensity
1.0400 87830.0

XRECOVERY = 104.0

TUBE: 11 07/05/96 15:20
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 1 ***** 0 0 1

AVG(ppb) Intensity
0.0020 2357.0

TUBE: 12 07/05/96 15:22
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
PRW ***** 0 0 1 961865714001

~~V~~ ZZZZZZ
AVG(ppb) Intensity RR RD
-0.0070 1620.0

TUBE: 13 07/05/96 15:24
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
LCSW ***** 1 1 1 961865714001

~~V~~ ZZZZZZ
AVG(ppb) Intensity RR RD
0.9480 80089.0

TUBE: 14 07/05/96 15:26
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2532218 ***** 0 0 10 961865714001

~~V~~ ZZZZZZ
AVG(ppb) Intensity RR RD
0.1030 10679.0

218

AR305297

RUN NAME: 9618701M03
PAGE: 3
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 15 07/05/96 15:29
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538932 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
0.0420 5708.0

TUBE: 16 07/05/96 15:31
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2539772 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
0.5020 43474.0

TUBE: 17 07/05/96 15:33
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2539825 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
0.0740 8274.0

TUBE: 18 07/05/96 15:35
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540148 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
1.9500 162535.0

TUBE: 19 07/05/96 15:38
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540149 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
0.1890 17712.0

TUBE: 20 07/05/96 15:40
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540335 ***** 8 8 1 961865714001

~~U~~ ~~777777~~
AVG (ppb) Intensity RR RD
0.0670 7699.0

AR305298

RUN NAME: 961870im03
PAGE: 4
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 21 07/05/96 15:42
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540440 U***** 8 8 1 961865714001

~~ZZZZZ~~
AVG(ppb) Intensity RR RD
0.0200 3875.0

TUBE: 22 07/05/96 15:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 2 ***** 0 0 1

AVG(ppb) Intensity
1.0400 87493.0

*RECOVERY = 104.0

TUBE: 23 07/05/96 15:47
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 2 ***** 0 0 1

AVG(ppb) Intensity
-0.0050 1841.0

TUBE: 24 07/05/96 15:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540441 R***** 8 8 1 961865714001

~~ZZZZZ~~
AVG(ppb) Intensity RR RD
1.1000 92633.0

TUBE: 25 07/05/96 15:52
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540442 M***** 8 8 1 961865714001

~~ZZZZZ~~
AVG(ppb) Intensity RR RD
1.0200 86029.0

TUBE: 26 07/05/96 15:54
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540443 D***** 8 8 1 961865714001

~~ZZZZZ~~
AVG(ppb) Intensity RR RD
0.0340 5029.0

TUBE: 27 07/05/96 15:56
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
FRW ***** 8 8 1 961865713001

~~ZZZZZ~~
AVG(ppb) Intensity RR RD
-0.0070 1673.0

AR305299

220

RUN NAME: 9618701M03
PAGE: 5
ANALYST: 823

LANCASTER LABRATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 28 07/05/96 15:59
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
LCSW ***** 1 1 1 961865713001

~~V~~ 177777

AVG(ppb) Intensity RR RD
1.0000 84302.0

TUBE: 29 07/05/96 16:01
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537718 ***** 8 8 10 961865713001

~~V~~ 777777

AVG(ppb) Intensity RR RD
0.0160 3525.0

TUBE: 30 07/05/96 16:03
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537999 ***** 8 8 1 961865713001

~~V~~ 777777

AVG(ppb) Intensity RR RD
9.0200 742854.0 10

TUBE: 31 07/05/96 16:06
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2537999 ***** 8 8 1 961865713001

~~V~~ 777777

AVG(ppb) Intensity RR RD
6.6400 547472.0 10

TUBE: 32 07/05/96 16:08
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540184 ***** 8 8 1 961865713001

~~V~~ 777777

AVG(ppb) Intensity RR RD
0.0240 4234.0

TUBE: 33 07/05/96 16:11
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540185 ***** 8 8 1 961865713001

~~V~~ 777777

AVG(ppb) Intensity RR RD
0.0560 6809.0

931

AR305300

RUN NAME: 9618701M03
PAGE: 6
ANALYST: 823

LANCASTER LABRATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 34 07/05/96 16:13
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCV 3 ***** 0 0 1

AVG (ppb) Intensity
1.0300 86501.0

*RECOVERY = 103.0

TUBE: 35 07/05/96 16:15
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CCB 3 ***** 0 0 1

AVG (ppb) Intensity
-0.0100 1390.0

TUBE: 36 07/05/96 16:18
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540186 U***** 8 8 1 961865713001

~~U 77777~~

AVG (ppb) Intensity
0.0400 5499.0

RR RD
— —

TUBE: 37 07/05/96 16:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540186 D***** 8 8 1 961865713001

~~U 77777~~

AVG (ppb) Intensity
0.0550 6702.0

RR RD
— —

TUBE: 38 07/05/96 16:22
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540186 R***** 8 8 1 961865713001

~~U 77777~~

AVG (ppb) Intensity
1.1000 92852.0

RR RD
— —

TUBE: 39 07/05/96 16:24
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2540186 M***** 8 8 1 961865713001

~~U 77777~~

AVG (ppb) Intensity
1.0600 88859.0

RR RD
— —

TUBE: 40 07/05/96 16:27
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
P540917 ***** 8 8 10 961865713001

~~U 77777~~

AVG (ppb) Intensity
0.0210 3931.0

RR RD
— —

redispensed standards
after sample is
filled in lab
RSC 114
7/6/96
922

AR305301

RUN NAME: 9618701M03

PAGE: 7
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TURE:	07/05/96	16:29				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
P540917	*****	8	8	100	961865713001	

777772

AVG (ppb)	Intensity
0.0020	2361.0

*repeated after
sample is filtered
in Lab*

TURE:	07/05/96	16:31				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
FRW	*****	8	8	1	961860821001	

~~V~~

AVG (ppb)	Intensity	RR	RD
0.0250	4255.0	---	---

TURE:	07/05/96	16:33				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
LCSW	*****	1	1	1	961860821001	

~~V~~

AVG (ppb)	Intensity	RR	RD
1.0300	87025.0	---	---

TURE:	07/05/96	16:36				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2530139	*****	8	8	1	961860821001	

JCFBA

~~V~~

AVG (ppb)	Intensity	RR	RD
0.0290	4592.0	---	---

TURE:	07/05/96	16:38				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
2530140	U*****	8	8	1	961860821001	

JC302

~~V~~

AVG (ppb)	Intensity	RR	RD
0.0290	4619.0	---	---

TURE:	07/05/96	16:40				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
CCV 4	*****	0	0	1		

AVG (ppb)	Intensity
1.0100	85279.0

*RECOVERY = 101.0

TURE:	07/05/96	16:42				
SAMPLE	CLASS	IVOL/WT	FVOL	DF	BATCH NUMBER	
CCR 4	*****	0	0	1		

AVG (ppb)	Intensity
-0.0100	1430.0

723

AR305302

RUN NAME: 9618701M03
PAGE: 8
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TUBE: 48 07/05/96 16:45
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538140 D***** 8 8 1 961860821001

~~ZZZZZ~~

~~U~~
X AVG(ppb) Intensity RR RD
 -0.0060 1724.0

TUBE: 49 07/05/96 16:47
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538140 R***** 8 8 1 961860821001

~~ZZZZZ~~

~~U~~
X AVG(ppb) Intensity RR RD
 0.9960 84007.0

TUBE: 50 07/05/96 16:49
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538141 ***** 8 8 1 961860821001

JC 242

~~U~~
X AVG(ppb) Intensity RR RD
 -0.0110 1287.0

TUBE: 51 07/05/96 16:51
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538142 ***** 8 8 1 961860821001

JC 205

~~U~~
X AVG(ppb) Intensity RR RD
 -0.0070 1637.0

TUBE: 52 07/05/96 16:53
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538143 ***** 8 8 1 961860821001

JCR02

~~U~~
X AVG(ppb) Intensity RR RD
 0.0340 5025.0

TUBE: 53 07/05/96 16:56
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538144 ***** 8 8 1 961860821001

JC 209

~~U~~
X AVG(ppb) Intensity RR RD
 -0.0100 1385.0

924

AR305303

RUN NAME: 9618701M03
PAGE: 9
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TURE: 54 07/05/96 16:58
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538145 ***** 8 8 1 961860821001

JC309

~~X~~ AVG(ppb) Intensity RR RD
-0.0030 1949.0 .

TURE: 55 07/05/96 17:00
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538146 ***** 8 8 1 961860821001

JC212

~~X~~ AVG(ppb) Intensity RR RD
-0.0090 1520.0 .

TURE: 56 07/05/96 17:02
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538147 ***** 8 8 1 961860821001

JC1R1

~~X~~ AVG(ppb) Intensity RR RD
-0.0100 1381.0 .

TURE: 57 07/05/96 17:05
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2538234 ***** 8 8 1 961860821001

JC6B3

~~X~~ AVG(ppb) Intensity RR RD
-0.0100 1414.0 .

TURE: 58 07/05/96 17:07
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CV 5 ***** 0 0 1

AVG(ppb) Intensity
1.0200 86135.0

*RECOVERY = 102.0

TURE: 59 07/05/96 17:09
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
CR 5 ***** 0 0 1

AVG(ppb) Intensity
-0.0110 1362.0

TURE: 60 07/05/96 17:11
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
530235 ***** 8 8 1 961860821001

JC210

~~X~~ AVG(ppb) Intensity RR RD
0.0080 2048.0 .

925
AR305304

RUN NAME: 9618701M03
PAGE: 10
ANALYST: 823

LANCASTER LABORATORIES
INSTRUMENT ID: 05220
CV ELEMENT: HG

TURE: 61 07/05/96 17:14
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530236 ***** 8 0 1 961860821001

JC211

~~U~~
AVG(ppb) Intensity RR RD
0.0210 3989.0

TURE: 62 07/05/96 17:16
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530237 ***** 8 0 1 961860821001

JCH46

~~U~~
AVG(ppb) Intensity RR RD
0.0190 3770.0

TURE: 63 07/05/96 17:18
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530238 ***** 8 0 1 961860821001

~~U~~
ZZZZZ
AVG(ppb) Intensity RR RD
0.0170 3622.0

TURE: 64 07/05/96 17:20
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530239 ***** 8 0 1 961860821001

ZZZZZ

~~U~~
AVG(ppb) Intensity RR RD
-0.0040 1929.0

TURE: 65 07/05/96 17:23
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530240 ***** 8 0 1 961860821001

ZZZZZ

~~U~~
AVG(ppb) Intensity RR RD
-0.0070 1620.0

TURE: 66 07/05/96 17:25
SAMPLE CLASS IVOL/WT FVOL DF BATCH NUMBER
2530241 ***** 8 0 1 961860821001

ZZZZZ

~~U~~
AVG(ppb) Intensity RR RD
-0.0060 1732.0

226

AR305305

TURE: 67 07/05/96 17:27
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2538242 ***** 8 8 1 961860821001

~~777777~~
AVG(ppb) Intensity RR RD
-0.0100 1379.0

TURE: 68 07/05/96 17:29
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 6 ***** 0 0 1

AVG(ppb) Intensity *RECOVERY = 103.0
1.0300 86474.0

TURE: 69 07/05/96 17:32
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 6 ***** 0 0 1

AVG(ppb) Intensity
-0.0070 1630.0

TURE: 70 07/05/96 17:43
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
2537999 ***** 8 8 1 961865713001

V
AVG(ppb) Intensity RR RD
0.9010 76190.0

10
RDG 114
7/5/96

TURE: 71 07/05/96 17:45
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCV 7 ***** 0 0 1

AVG(ppb) Intensity *RECOVERY = 100.0
1.0000 84593.0

TURE: 72 07/05/96 17:48
SAMPLE CLASS IVOL/WT EVOL DF BATCH NUMBER
CCR 7 ***** 0 0 1

AVG(ppb) Intensity
-0.0180 766.0

DATA REVIEWED BY: NSM823 7/5/96

DATA VERIFIED BY: RDG 114
7/5/96

22

Extraction/Distillation/Digestion Logs

728

AR305307

Batch # 96190 5720 001

Sample #	T	Initial Vol (mL)	Final Vol (mL)	EPA #	SDG #	Date	Init
25371554	1	100	100	W-204	AES 01	7/8/96	08/1598
7156				W-203			
7157				W-303			
7158				W-200			
7159				W-100			
7160				W201S			
7161				W-201			
8139				JCFBA			
8140				JC302			
8141				JC202			
8142				JC205			
8143				JC202			
8144				JC209			
8145				JC309			
8146				JC212			
8147				JC211			
8234				JCFBB			
8235				JC210			
8236				JC211			
8237				JC406			
2537155	1	100	100	W-204 D	AES 01	7/8/96	08/1598
7155				W-204S			
BLANK							

Sample #	Spike Information												
	Solin ID	1	2	11	12	13	Vol. Added (mL)	1	2	3	4	5	
2537155	177	177	177	082	149	115	2ml	2ml	2ml	2ml	2ml	2ml	
LCS	177	177	169	179	159		2ml	2ml	2ml	2ml	2ml	2ml	

1151 Rev. 08/22/95

OC AR305308

Digest Type 5720 197 COC (V/N) N (Trace)

	Before		After		Notes
	Color	Clarity	Color	Clarity	
1	CL	CR	CL	CR	Start time 22:10
2					DP, CLP 4.0 only Batch F. Filtered
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17	↓	↓	↓	↓	
18	1/2 CR	1/2 CR	1/2 CR	1/2 CR	
19	1/2 CR	1/2 CR	1/2 CR	1/2 CR	
20	CL	CR	CL	CR	
Dup	↓	↓	↓	↓	DP, CLP 4.0 only Batch F. Filtered
Spike	↓	↓	↓	↓	
Blank					H47

Reagent	1:1 HNO ₃	1:1 HCl	Date	Init
Lot #	092	156	7/8/96	08/1598

1151a Rev. 08/22/95

Digest Type Mercury \$ CLP4 COC (Y/N) N Digest Delivered _____ Digest Received _____

0154423
0154422

Batch # 916186 0821 001

Sample #	T	Initial Vol (ml)	Final Vol (ml)	DF	EPA #	SDG #	Date	Init
2538139		8	8	7	JCFBA	AESR1	7/4/96	NSM 823
81404					JC302			
8141					JC202			
8142					JC205			
8143					JCR02			
8144					JC209			
8145					JC309			
8146					JC212			
8147					JCTRI			
8234					JCFB3			
8235					JC210			
8236					JC211			
8237					JC406			
8238					JC306 - AESR2			
8239					JC206			
8240					JCEJC			
8241					JC305			
8242					JCTRB			
2538140 D		8	8	7	JC302	AESR1	7/4/96	NSM 823
8140R					↓ s	↓		
BLANK								

Sample Number	Spike Information				Date	Init
	Soln ID	1 ppm Hg	Vol. Added (ml)	Lot #		
LCS		1 ppm Hg	186 Conv		7/4/96	NSM 823
2538140 R		0.1 ppm Hg	186 Conv			

QC

Page 90

	Before		After		Notes	START Time
	Color	Clarity	Color	Clarity		
1					Leeman Lab Digest	1530
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
Dup					Leeman Lab. Digest	
Spike						
Blank						

Notes

1386 Rev. 03/23/94

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AR305310

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Chain-of-Custody Record



Lancaster Laboratories
A Thermo Analytical Laboratory

For LLI use only

Acct. # 0326 Sample # 237155-61

Please print. Instructions on reverse side correspond with circled numbers.

Client: Alliance Environmental Acct. #

Project Name#: Jack's Creek/Sitkin Sitewid #

Project Manager: James D. Young PO#

Sampler: JDY A PEM Quote #

Name of state where samples were collected: PENNSYLVANIA

Sample Identification

Sample ID	Time	Relinquished by	Date	Time	Received by	Date	Time
GMW-204	11:10 AM	[Signature]	6/26/96	12:50	James D. Young	6/26/96	1100
GMW-203	13:35 hr	[Signature]	6/26/96	2046	Paul S. Nobile	6/26/96	2046
GMW-303	13:50 hr	[Signature]	6/27/96	13:00	[Signature]	6/27/96	1300
GMW-200S	16:25 hr	[Signature]	6/27/96	1530	[Signature]	6/27/96	1530
GMW-400S	14:30 hrs	[Signature]	6/27/96	1530	[Signature]	6/27/96	1530
GMW-201S	18:30 hrs	[Signature]	6/27/96	1530	[Signature]	6/27/96	1530
GMW-201	18:20 hrs	[Signature]	6/27/96	1530	[Signature]	6/27/96	1530

Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to LLI approval and surcharge.)
 Date results are needed:
 Rush results requested by (please circle): Phone Fax
 Phone #: Fax #:

Data Package Options (please circle if requested)
 QC Summary Type VI SDG Complete? Yes No
 Type I (Tier I) GLP Site-specific OC required? Yes No
 Type II (Tier II) Other (if yes, indicate QC sample and submit triplicate volume.)
 Type III (N Method Del) Internal Chain of Custody required? Yes No
 Type IV (CLP)

For LLI use only
 FSC: SCR#: 108506
 ALL DISSOLVED METALS - AS PER ORDER # 108506
 ICE (4°C), FILTERED
 LAB. PRES. (45 min)
 PHCZ FIELD-CHECKED FOLLOWING SAMPLE COLLECTION
 ALL SAMPLES

AR305312



Lancaster Laboratories
A Thermo Analytical Laboratory

DIRECTIONS FOR COMPLETING THIS FORM

For LLI use only
Acct. # 9248 Sample # 2538139-47

1. The information on this form is to be used by the client to identify the samples and to provide the information needed for the analysis. Please print! (Instructions on reverse side correspond with circled numbers.)

Client: Alliance Environmental Acct. # 9248 (For LLI use only)
Project Name: Jack's Creek/Sittlerpawd #
Project Manager: James D. Young PO # 1005586
Sampler: JDY & PEM Quote #:

Name of state where samples were collected: PENNSYLVANIA

Field	Sample ID	Volume	Container	Notes
Field Blank	6127196 0930	✓	100 mL	
GMW - 302	6127196 1123	✓	100 mL	
GMW - 202	6127196 1127	✓	100 mL	
GMW - 205	6127196 1410	✓	100 mL	
GWR - 02	6127196 1533	✓	100 mL	
GMW - 209	6127196 1730	✓	100 mL	
GMW - 309	6127196 1747	✓	100 mL	
GMW - 212	6127196 1856	✓	100 mL	
TRIP BLANK A	6127196 1858	✓	100 mL	

Sample ID	Volume	Container	Notes	Received by	Date	Time
6127196 0930	✓	100 mL				
6127196 1123	✓	100 mL				
6127196 1127	✓	100 mL				
6127196 1410	✓	100 mL				
6127196 1533	✓	100 mL				
6127196 1730	✓	100 mL				
6127196 1747	✓	100 mL				
6127196 1856	✓	100 mL				
6127196 1858	✓	100 mL				

Sample ID	Volume	Container	Notes	Received by	Date	Time
6127196 0930	✓	100 mL				
6127196 1123	✓	100 mL				
6127196 1127	✓	100 mL				
6127196 1410	✓	100 mL				
6127196 1533	✓	100 mL				
6127196 1730	✓	100 mL				
6127196 1747	✓	100 mL				
6127196 1856	✓	100 mL				
6127196 1858	✓	100 mL				

Turnaround Time Requested (TAT) (please circle): Normal Rush (if requested)
Date results are needed: 7/12/96
Rush results requested by (please circle): Phone Fax
Phone #: _____ Fax #: _____
Data Package Options (please circle if requested):
Type I (Tier I) _____ Type VI _____
Type II (Tier II) _____ GLP _____
Type III (Red. Del.) _____ Other _____
Internal Chain of Custody required? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No
Type CLP



Lancaster Laboratories
A Thermo Analytical Laboratory

For LLI use only
Acct. # 9248
Sample # 2538234-42

Please print: Instructions on reverse side correspond with circled numbers.

Client: Alliance Environmental
Project Name#: Jack's Creek/Sitkin
Project Manager: James D. Young
Sampler: JDY & PEIN
Name of state where samples were collected: PA

For LLI use only
FSC
SCR#: 108506

ACK DISSOLVED METALS

Sample Designation	Field	Lab	Method	Remarks
Field Blank B	6128196	0930	✓	Ice to 4°C, Field Filtered
GMW - 210	6128196	0946	✓	Lab Pres (HNO3)
GMW - 211	6128196	1056	✓	PH 2.2 Field Ventred
GMW - 406	6128196	1306	✓	After sample collection
GMW - 306	6128196	1406	✓	All
EICH. WELL	6128196	1612	✓	Samples
GMW - 305	6128196	1725	✓	
Trip Blank B	6128196	1732	✓	

Relinquished by:	Date	Time	Received by:	Date	Time
William S. Muecke	6-20-16	1250	James D. Young	6/21/16	100
James D. Young	6/28/16	2300	James D. Young	6/28/16	2350
James D. Young	6/29/16	1735	James D. Young	6/29/16	2355

Turnaround Time Requested (TAT) (please circle): Normal
 (Rush TAT is subject to LLI approval and surcharge)
 Date results are needed: 12 July 1996
 Rush results requested by (please circle): Phone Fax
 Phone #: Fax #:

8. Data Package Options (please circle if requested)

QC Summary	Type VI	SDG Complete?	Yes No
Type I (Tier I)	GLP		
Type II (Tier II)	Other	Site-specific QC required?	Yes No
Type III (Red. Del.)		(If yes, indicate QC sample and submit triplicate volume.)	
Type IV (GLP)		Internal Chain of Custody required?	Yes No

AR305314