This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-074

Section 4 **of** 8

Title: 216 Day Final Report for Tank 241-SY-103 Push Mode Core 62

Date: 08-11-95 **Revision:** A000

Originator: A D Rice
Co: WHC

Recipient:
Co:

References: EDT-612158

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LABCORE Data Entry Template for Worklist# 75 ✓

Analyst: JK Sato DKS **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.90	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.01	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000005	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<9.51e1	9.51E1	ug/g
7	DUP	S94T000005	0	F	@ICP-F03 LI-F-01	SOLID	<9.51e1	<9.48e1	N/A	ug/g
8	SAMPLE	S94T000012	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<5.21e1	5.21e1	ug/g
9	DUP	S94T000012	0	F	@ICP-F03 LI-F-01	SOLID	<5.21e1	<5.25e1	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.02	N/A	ug/g
12	CCV-1				@ICP-F03 LI-F-01	SOLID	5	5.16	N/A	ug/g
13	CCB-1				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Final page for worklist # 75

JK Sato
Analyst Signature

10-14-94
Date

BEST AVAILABLE COPY

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

October 14, 1994

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000005	S94T000005	S94T000012
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION	FUSION	FUSION
Comment	34B48A	2% HNO3	ICSA	ICSAB	DIG BLANK, .5-10ML	SAMDIL, .5520G IN 250ML, .5-10	DUPDIL, .5539G IN 250ML, .5-1	SAMDIL,1.0079G IN 250ML, .5-10
Time	09:47	09:51	09:54	09:58	10:07	10:46	10:51	10:56
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	4.9069	0.0032	0.0025	-0.0005	-0.0007	-0.0008	-0.0017	-0.0069
Al	4.8303	0.0195	100.6240	101.9827	0.0348	2.2461	2.2620	4.2437
As	4.9331	0.0025	-0.0031	0.0024	-0.0015	-0.0038	-0.0013	0.0025
B	4.6315	0.0071	0.0054	0.0042	0.0034	0.0049	0.0049	0.0091
Ba	4.8093	0.0020	0.0010	0.0002	0.0013	0.0012	0.0003	-0.0014
Be	5.0973	0.0020	0.0013	0.0009	0.0006	-0.0004	-0.0002	0.0001
Bi	4.8860	-0.0171	0.0326	0.0080	-0.0068	0.0286	0.0066	-0.0109
Ca	4.8859	0.0034	9.1729	10.1223	0.0249	0.0161	0.0302	0.0219
Cd	5.0173	0.0026	-0.0028	-0.0048	0.0011	-0.0005	0.0002	0.0006
Ce	4.8246	-0.0388	0.0001	-0.0518	-0.0380	0.0289	-0.0121	-0.0544
Co	5.0349	0.0009	0.0009	0.0000	0.0018	-0.0009	-0.0022	0.0000
Cr	4.9679	0.0012	-0.0042	-0.0038	0.0004	0.0078	0.0077	0.0133
Cu	5.0045	0.0015	-0.0098	-0.0110	0.0014	-0.0014	-0.0006	0.0014
Fe	5.0129	0.0017	99.4862	100.8471	0.0201	0.0027	0.0035	0.0125
K	4.8088	-0.0105	-0.0143	-0.0247	456.3594	406.9777	417.2564	486.2585
La	4.8163	0.0043	0.0058	0.0063	0.0003	0.0030	-0.0027	-0.0082
Li	4.9014	0.0022	0.0020	1.0091	0.0031	0.0003	0.0002	0.0021
Mg	4.9425	0.0025	9.7306	9.9108	0.0047	0.0013	0.0014	0.0014
Mn	4.9457	0.0009	-0.0036	-0.0032	0.0004	0.0000	0.0000	-0.0007
Mo	4.9690	0.0095	0.0014	-0.0010	0.0019	0.0065	0.0053	0.0155
Na	4.7331	0.0122	0.1829	0.1726	0.1641	14.3059	14.5426	33.6760
Nd	4.8327	0.0202	0.0260	-0.0011	0.0276	-0.0016	0.0009	0.0277
Ni	4.9760	0.0041	-0.0401	-0.0391	0.2319	0.0403	0.0391	0.1398
P	5.3644	-0.0122	0.0180	0.0163	-0.0006	0.6076	0.5776	0.5445
Pb	4.9736	-0.0113	-0.0180	-0.0114	0.0090	0.0001	-0.0029	-0.0092
S	5.0999	0.0106	0.1139	0.1135	0.0128	0.0810	0.0713	0.1383
Sb	4.7091	0.0139	0.0397	-0.0145	0.0027	0.0178	0.0124	0.0465
Se	5.2391	-0.0084	0.0141	-0.0070	-0.0037	-0.0008	-0.0055	0.0172
Si	4.5818	0.0033	0.0558	0.0557	-0.0568	-0.0437	-0.0473	-0.0179
Sm	4.8259	-0.0094	-0.0130	-0.0194	-0.0267	0.0064	-0.0315	-0.1334
Sr	4.7993	0.0025	0.0015	0.0008	0.0015	0.0003	0.0005	0.0007
Ti	4.7783	0.0016	0.0012	-0.0001	-0.0002	-0.0001	-0.0011	-0.0035
Tl	4.7054	-0.0314	-0.0248	-0.0404	-0.0555	-0.0021	-0.0763	-0.1689
U	9.1785	-0.0183	0.0761	-0.0219	-0.0863	0.0502	-0.1785	-0.5909
V	4.8702	0.0002	-0.0024	-0.0022	-0.0012	-0.0012	-0.0023	-0.0055
Zn	5.1860	0.0076	0.0003	0.0011	0.0049	0.0300	0.0097	0.0159
Zr	4.8486	0.0027	0.0000	-0.0028	0.0036	0.0002	-0.0015	-0.0079

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WHC-SD-WM-DP-074, REV. 0

Data not adjusted for dilution factors

Octobe. 4, 1994

Sample	S94T000012	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION	LIQUID	LIQUID	LIQUID	LIQUID
Comment	DUPDIL,1.0006G IN 250ML, .5-1	ICSA	ICSAB	34B48A	2% HNO3
Time	11:00	11:09	11:13	11:18	11:22
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	-0.0019	-0.0025	-0.0026	4.7730	0.5856
Al	4.1833	100.8491	103.6560	5.2231	0.0229
As	-0.0001	0.0008	0.0005	5.0746	0.0001
B	0.0115	0.0033	0.0029	4.8718	0.0037
Ba	0.0004	0.0006	0.0003	5.0667	-0.0003
Be	-0.0001	0.0004	0.0005	5.3115	-0.0002
Bi	-0.0049	0.0072	0.0290	5.0584	-0.0253
Ca	0.0199	9.1108	10.2220	5.1902	0.0025
Cd	-0.0001	-0.0040	-0.0037	5.1758	0.0005
Ce	-0.0338	-0.0160	-0.0069	5.0320	-0.0551
Co	0.0000	-0.0005	0.0004	5.1906	0.0009
Cr	0.0140	-0.0058	-0.0035	5.1497	0.0024
Cu	0.0010	-0.0123	-0.0106	5.2956	0.0015
Fe	0.0016	99.4843	102.5031	5.3599	0.0148
K	478.2953	0.3948	0.2103	5.7258	0.1132
La	-0.0034	0.0055	0.0064	5.0894	0.0006
Li	0.0018	-0.0004	1.0176	5.1618	0.0019
Mg	0.0014	9.7402	10.0718	5.1327	0.0016
Mn	-0.0001	-0.0045	-0.0040	5.1612	-0.0015
Mo	0.0129	-0.0005	-0.0002	5.1030	0.0057
Na	33.1469	0.1858	0.1839	5.0358	0.0396
Nd	0.0186	-0.0033	0.0149	5.2737	0.0136
Ni	0.1208	-0.0387	-0.0395	5.1721	-0.0014
P	0.5595	0.0128	0.0216	5.4613	-0.0198
Pb	0.0079	-0.0211	-0.0147	5.0800	-0.0018
S	0.1304	0.1156	0.1324	5.3596	0.0094
Sb	0.0081	0.0487	0.0168	4.8923	-0.0047
Se	0.0154	0.0059	0.0170	5.4261	0.0070
Si	-0.0057	0.0543	0.0579	4.7267	-0.0018
Sm	-0.0215	0.0198	0.0008	5.0904	-0.0315
Sr	0.0007	0.0003	0.0005	5.0436	0.0008
Ti	-0.0011	0.0009	0.0000	4.9802	-0.0005
Tl	-0.0526	-0.0464	-0.0394	5.0167	-0.0458
U	-0.0968	0.1263	0.0872	10.0597	-0.1401
V	-0.0029	-0.0012	-0.0024	5.1104	-0.0019
Zn	0.0106	0.0036	0.0160	5.7037	0.0071
Zr	-0.0014	0.0021	0.0005	5.0995	-0.0018

Data not adjusted for dilution factors

LABCORE Data Entry Template for Worklist# 76

Analyst: JK Soto **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.962	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.002	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000021	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<5.21e1	5.21e1	ug/g
7	DUP	S94T000021	0	F	@ICP-F03 LI-F-01	SOLID	<5.21e1	<5.20e1	N/A	ug/g
8	SAMPLE	S94T000029	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<5.17e1	5.17e1	ug/g
9	DUP	S94T000029	0	F	@ICP-F03 LI-F-01	SOLID	<5.17e1	<5.16e1	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.984	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.969	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Final page for worklist # 76

JK Soto
Analyst Signature

10-14-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Octobe. .4, 1994

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000021	S94T000021
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION	FUSION
Comment	34B48A	2% HNO3	ICSA	ICSAB	DIG BLANK, .5-10ML	SAMDIL, 1.0073G IN 250ML,.5-10	DUPDIL, 1.0090G IN 250ML,.5-10
Time	12:45	12:50	12:53	12:57	13:03	13:09	13:12
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	4.9484	0.0009	-0.0034	-0.0029	-0.0041	-0.0039	-0.0109
Al	4.8550	0.0127	99.8683	101.5507	0.0191	4.1141	4.0740
As	4.9452	-0.0022	0.0036	-0.0097	0.0023	0.0038	-0.0064
B	4.7025	0.0063	0.0029	0.0054	0.0012	0.0128	0.0113
Ba	4.8616	0.0012	0.0000	0.0008	-0.0007	0.0000	-0.0031
Be	5.1327	0.0015	0.0008	0.0008	-0.0003	0.0000	-0.0002
Bi	4.8782	-0.0011	-0.0002	0.0058	-0.0160	0.0026	0.0238
Ca	4.9614	0.0034	9.0788	10.0071	0.0084	0.0253	0.0172
Cd	5.0356	0.0026	-0.0027	-0.0037	0.0007	0.0012	0.0006
Ce	4.7841	-0.0254	-0.0406	-0.0100	-0.0558	-0.0281	-0.0225
Co	5.0450	0.0018	0.0018	0.0014	0.0010	0.0014	0.0006
Cr	5.0008	0.0038	-0.0040	-0.0034	0.0017	0.0099	0.0115
Cu	5.0812	0.0010	-0.0083	-0.0092	-0.0002	-0.0006	-0.0006
Fe	5.0537	0.0048	98.7202	100.7974	0.0229	0.0130	0.0090
K	4.8668	0.0124	-0.0343	0.0323	479.6224	405.7753	398.5141
La	4.8803	0.0010	0.0026	0.0104	-0.0045	-0.0034	-0.0086
Li	4.9618	0.0022	0.0028	1.0023	0.0003	0.0058	0.0052
Mg	4.9631	0.0016	9.6509	9.9329	0.0029	0.0022	0.0021
Mn	4.9921	-0.0003	-0.0039	-0.0036	0.0001	0.0001	-0.0009
Mo	4.9643	0.0108	0.0008	0.0024	0.0001	0.0132	0.0126
Na	4.7737	0.0302	0.2075	0.1980	0.1547	24.2003	23.9344
Nd	4.9670	0.0221	0.0649	0.0376	0.0112	0.0052	-0.0119
Ni	5.0145	0.0015	-0.0386	-0.0395	0.1344	0.0606	0.0584
P	5.5949	0.0052	0.0125	-0.0012	0.0091	0.4613	0.4681
Pb	4.9662	0.0110	0.0025	-0.0078	-0.0021	0.0106	0.0014
S	5.2170	0.0141	0.1158	0.1274	0.0054	0.1238	0.2136
Sb	4.7386	0.0117	0.0504	0.0205	0.0237	0.0154	0.0213
Se	5.2478	-0.0038	0.0048	0.0326	-0.0023	0.0051	-0.0139
Si	4.5814	-0.0040	0.0495	0.0590	-0.0755	-0.0325	-0.0619
Sm	4.7427	-0.0055	-0.0402	0.0031	-0.0981	-0.0539	-0.2277
Sr	4.8434	0.0020	0.0014	0.0012	0.0007	0.0005	0.0006
Ti	4.8097	0.0011	0.0001	0.0003	-0.0027	-0.0011	-0.0058
Tl	4.6821	-0.0450	-0.0773	-0.0524	-0.1364	-0.0751	-0.3066
U	9.0813	-0.0214	-0.1002	0.1212	-0.4101	-0.2516	-0.9493
V	4.9261	-0.0003	-0.0033	-0.0013	-0.0049	-0.0046	-0.0093
Zn	5.3486	0.0088	0.0117	0.0567	0.0538	0.0217	0.0102
Zr	4.9050	0.0016	-0.0029	0.0011	-0.0055	-0.0042	-0.0161

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Data not adjusted for dilution factors

October 14, 1994

Sample	S94T000029	S94T000029	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION	FUSION	LIQUID	LIQUID	LIQUID	LIQUID
Comment	SAMDIL, 1.0152G IN 250ML,.5-10	DUPDIL, 1.0180G IN 250ML,.5-1	ICSA	ICSAB	34B48A	2% HNO3
Time	13:16	13:20	13:27	13:31	13:36	13:40
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	-0.0024	-0.0032	-0.0043	-0.0053	4.9205	-0.0004
Al	5.2280	5.2982	101.2821	99.0961	4.8819	0.0101
As	0.0058	0.0058	0.0000	0.0010	4.9068	0.0024
B	0.0123	0.0119	0.0046	0.0039	4.6859	0.0053
Ba	0.0005	0.0000	0.0000	-0.0005	4.8449	0.0003
Be	-0.0001	0.0000	0.0006	0.0005	5.1140	0.0013
Bi	-0.0036	0.0006	0.0016	0.0140	4.8509	-0.0060
Ca	0.0273	0.0204	9.2837	9.8186	4.9490	0.0028
Cd	0.0006	0.0005	-0.0037	-0.0044	5.0111	0.0010
Ce	-0.0182	-0.0421	-0.0285	-0.0313	4.7983	-0.0115
Co	0.0028	0.0014	-0.0005	0.0023	5.0211	0.0032
Cr	0.0117	0.0105	-0.0054	-0.0043	4.9697	0.0025
Cu	-0.0002	0.0011	-0.0104	-0.0099	5.0726	0.0000
Fe	0.0134	0.0228	100.7773	98.3162	5.0676	0.0137
K	533.4570	539.3816	0.3824	0.2102	5.1703	0.1617
La	-0.0010	-0.0047	0.0063	0.0035	4.8626	-0.0028
Li	0.0016	0.0019	0.0010	0.9845	4.9691	0.0007
Mg	0.0024	0.0034	9.7766	9.6076	4.9511	0.0026
Mn	-0.0003	-0.0001	-0.0044	-0.0045	4.9743	-0.0006
Mo	0.0162	0.0182	0.0004	-0.0019	4.9434	0.0070
Na	28.9221	29.1711	0.2094	0.1999	4.7840	0.0170
Nd	0.0052	0.0360	0.0025	0.0300	4.9745	-0.0133
Ni	0.1167	0.1129	-0.0375	-0.0392	4.9929	0.0030
P	0.5234	0.5345	0.0104	0.0005	5.5187	-0.0052
Pb	0.0051	0.0069	-0.0208	-0.0071	4.9395	-0.0088
S	0.1664	0.1745	0.1152	0.1261	5.2051	-0.0014
Sb	0.0463	0.0087	0.0351	0.0268	4.7234	0.0259
Se	0.0113	0.0057	0.0119	0.0147	5.1958	-0.0101
Si	-0.0355	-0.0402	0.0551	0.0395	4.5689	-0.0085
Sm	-0.0390	-0.0457	-0.0233	-0.0309	4.8249	-0.0613
Sr	0.0006	0.0008	0.0007	0.0007	4.8277	0.0015
Ti	-0.0008	-0.0015	0.0001	-0.0011	4.7903	0.0000
Tl	-0.0620	-0.1086	-0.0690	-0.0953	4.7803	-0.0676
U	-0.1173	-0.2111	-0.0462	-0.1090	9.3538	-0.2596
V	-0.0024	-0.0027	-0.0034	-0.0041	4.9150	-0.0027
Zn	0.0481	0.0097	0.0145	0.0580	5.4101	0.0030
Zr	-0.0003	-0.0034	-0.0019	-0.0027	4.8925	-0.0006

Data not adjusted for dilution factors

LABCORE Data Entry Template for Worklist# 80

Analyst: J.K. Soto **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.068	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	~~0~~ 1 BW 12-5-94	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	~~0~~ 1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.994	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000067	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<115	115	ug/g
7	DUP	S94T000067	0	F	@ICP-F03 LI-F-01	SOLID	<115	<111	N/A	ug/g
8	SAMPLE	S94T000068	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<110	110	ug/g
9	DUP	S94T000068	0	F	@ICP-F03 LI-F-01	SOLID	<110	<111	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
1	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.986	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.142	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 80

J.K. Soto
Analyst Signature

10-17-94
Date

Data Entry Comments: Out for rerun

Units shown for QC (SPK) may not reflect the actual units.

October 17, 1994

Sample	S94T000068	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION SOL	LIQUID	LIQUID	LIQUID	LIQUID
Comment	DUPDIL, .4747G IN 250ML, .5-10M	ICSA	ICSAB	34B48A	2% HNO3
Time	13:45	13:53	13:57	14:04	14:07
Weight	0.4747	1	1	1	1
Volume	5250	1	1	1	1
Ag	18.102	-0.003	-0.000	5.071	0.069
Al	32386.969	100.950	99.839	5.163	0.039
As	10.858	0.002	-0.002	5.113	0.005
B	43.049	0.002	0.002	5.025	0.004
Ba	20.778	-0.000	0.001	5.039	0.002
Be	-0.438	0.001	0.001	5.313	0.002
Bi	28.794	0.004	0.032	5.011	0.017
Ca	674.509	8.994	9.685	5.172	0.002
Cd	20.299	-0.004	-0.004	5.178	0.002
Ce	-131.722	-0.027	0.022	5.036	0.032
Co	19.615	0.002	0.000	5.164	0.004
Cr	6699.805	-0.007	-0.008	5.148	0.002
Cu	6.089	-0.008	-0.009	5.212	0.003
Fe	1843.622	97.482	97.569	5.235	0.022
K	5503808.353	0.308	0.319	5.240	0.239
La	-10.751	-0.005	-0.001	5.034	-0.003
Li	9.103	0.003	0.986	5.142	0.004
Mg	45.728	9.508	9.595	5.126	0.003
Mn	623.315	-0.004	-0.003	5.145	0.001
Mo	98.625	-0.001	0.003	5.079	0.012
Na	178823.188	0.207	0.189	5.152	0.032
Nd	-363.417	-0.002	-0.001	5.088	0.035
Ni	1895.007	-0.040	-0.037	5.157	0.004
P	3458.064	0.033	0.029	5.362	0.022
Pb	47.934	-0.009	-0.021	5.082	0.006
S	2663.198	0.103	0.116	5.276	-0.001
Sb	75.103	0.057	0.024	4.853	0.045
Se	171.988	0.009	0.038	5.400	0.036
Si	243.364	0.082	0.068	4.772	-0.014
Sm	70.262	-0.013	0.035	5.013	0.052
Sr	5.350	0.001	0.000	5.026	0.002
Ti	24.836	0.001	0.001	4.940	0.003
Tl	-173.908	-0.031	0.034	4.949	0.042
U	-50.116	-0.088	0.159	9.861	0.122
V	-4.937	-0.002	-0.000	5.048	0.002
Zn	-96.830	-0.007	0.005	5.572	-0.017
Zr	91.233	-0.001	0.001	5.043	0.004

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	XXXX	S94T000067	S94T000067	S94T000068
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION SOL	FUSION SOL	FUSION SOL
Comment	34B48A	2% HNO3	ICSA	ICSA	DIG BLANK, .5-10ML	XXXX	XXXX	DUPDIL, .4741G IN 250ML, .5-10ML	SAMDIL, .4784G IN 250ML, .5-10ML
Time	12:48	12:52	12:56	12:59	13:10	13:17	13:26	13:31	13:41
Weight	1	1	1	1	1	1	0.455	0.4741	0.4784
Volume	1	1	1	1	1	1	5250	5250	5250
Ag	5.062	0.001	-0.001	-0.002	0.001	0.003	21.156	14.040	9.834
Al	5.072	0.005	100.317	99.381	0.030	3.211	37313.144	34215.207	30908.156
As	5.035	0.002	0.007	-0.006	0.006	-0.001	33.085	1.359	-81.411
B	4.939	0.006	0.002	0.002	-0.000	0.008	83.025	53.867	64.359
Ba	4.965	0.001	0.000	0.001	0.001	0.002	21.848	18.301	14.782
Be	5.240	0.001	0.002	0.002	0.000	0.000	2.300	3.950	0.787
Bi	4.970	0.012	0.015	0.022	-0.001	0.028	155.292	-33.386	-102.636
Ca	5.093	-0.001	8.983	9.799	0.015	0.087	1010.724	268.120	323.296
Cd	5.120	0.001	-0.002	-0.003	0.000	0.001	21.654	20.027	16.998
Ce	4.956	-0.000	-0.007	-0.009	-0.015	0.022	-195.879	-27.320	-204.206
Co	5.098	0.003	0.004	0.004	0.001	0.003	15.257	39.382	4.801
Cr	5.090	0.003	-0.006	-0.005	0.000	0.500	5751.619	4711.473	6427.011
Cu	5.140	0.002	-0.006	-0.010	0.002	0.002	29.051	27.871	-8.442
Fe	5.130	0.002	96.798	98.440	0.016	0.131	1574.953	1277.408	1764.056
K	5.044	-0.045	-0.054	-0.041	506.510	508.630	5855619.741	4935432.070	5522682.888
La	4.948	-0.007	-0.004	-0.006	-0.005	-0.004	0.456	-6.968	-58.568
Li	5.068	0.003	0.003	0.994	0.002	0.002	29.353	28.171	3.697
Mg	5.062	0.001	9.430	9.668	0.002	0.003	46.155	29.660	36.430
Mn	5.077	0.000	-0.003	-0.002	0.001	0.046	528.384	431.641	599.984
Mo	5.027	0.006	0.002	0.001	0.003	0.011	101.990	105.410	87.818
Na	5.058	0.015	0.197	0.182	0.199	15.080	174764.428	161680.403	168402.800
Nd	4.996	-0.006	0.014	-0.011	-0.007	0.010	283.454	-68.742	-431.921
Ni	5.096	-0.000	-0.038	-0.039	0.279	0.153	1818.293	1820.846	2313.775
P	5.173	0.006	0.002	0.011	0.009	0.301	3799.946	2673.863	3498.572
Pb	5.024	0.002	-0.008	-0.034	-0.004	-0.001	31.328	-31.724	-66.535
S	5.183	0.001	0.107	0.120	0.001	0.209	2506.679	2079.046	2434.300
Sb	4.704	0.048	0.039	0.019	0.029	0.073	487.810	471.448	137.521
Se	5.306	0.034	0.029	0.025	0.032	0.044	283.086	221.082	22.128
Si	4.717	-0.030	0.087	0.070	-0.012	0.008	60.064	-9.159	92.880
Sm	4.901	-0.029	-0.021	-0.006	0.000	0.019	152.306	30.870	-209.318
Sr	4.951	0.001	0.001	0.001	0.001	0.001	10.413	7.850	2.487
Ti	4.872	0.001	0.002	0.001	0.001	0.002	22.550	44.091	-1.177
Tl	4.906	-0.036	-0.062	-0.022	-0.002	0.040	233.047	35.540	-218.873
U	9.713	-0.164	-0.104	-0.082	-0.049	0.082	422.405	474.578	-778.588
V	4.977	0.000	-0.002	-0.002	0.001	0.001	-7.634	-4.744	-3.700
Zn	5.509	-0.018	-0.008	0.003	-0.016	-0.013	-143.969	-146.097	-170.969
Zr	4.969	-0.001	-0.000	0.000	0.002	0.008	83.666	79.901	68.322

LABCORE Data Entry Template for Worklist# 81

Analyst: JK Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.027	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.980	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000069	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<122	122	ug/g
7	DUP	S94T000069	0	F	@ICP-F03 LI-F-01	SOLID	<122	<118	N/A	ug/g
8	SAMPLE	S94T000094	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<95.8	95.8	ug/g
9	DUP	S94T000094	0	F	@ICP-F03 LI-F-01	SOLID	<95.8	<99.9	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.984	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.920	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Reject BW 11-7-94

Final page for worklist # 81

J.K. Sato
Analyst Signature

10-18-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Sample Point SY-103
Date 10/18/94
Tech DKS
Units ppm

WHC-SD-WM-DP-074, REV. 0

Time	10:33 ICV	10:36 ICB	10:39 ICS-A	10:42 ICS-AB	10:51 PREPBLKARL	11:19 ICS-A	11:23 ICS-AB	11:31 CCV-1	11:35 CCB-1
AG	5.072	0.002	-0.001	-0.003	-0.049	-0.004	-0.003	4.937	0.003
AL	4.967	-0.007	100.609	99.622	0.485	102.021	100.700	4.808	-0.004
AS	4.969	0.005	0.004	0.003	0.052	-0.001	0.006	4.769	-0.004
B	5.043	0.003	0.004	0.005	-0.004	-0.001	0.004	4.945	0.003
BA	5.033	0.001	0.001	-0.000	0.009	0.000	0.000	4.878	0.001
BE	5.203	0.002	0.002	0.001	0.016	0.001	0.001	5.006	0.001
BI	4.955	0.016	0.018	0.001	-0.082	-0.014	-0.013	4.814	-0.005
CA	5.145	0.002	9.219	9.777	0.224	9.291	9.918	5.015	0.001
CD	5.127	0.000	-0.004	-0.005	-0.025	-0.005	-0.005	4.936	-0.002
CE	4.958	0.009	-0.012	-0.007	-0.120	-0.021	0.010	4.696	0.001
CO	5.038	0.002	0.004	-0.001	0.019	-0.002	-0.000	4.832	-0.000
CR	5.082	0.001	-0.005	-0.006	0.052	-0.006	-0.009	4.904	0.001
CU	5.100	0.001	-0.008	-0.010	0.021	-0.011	-0.010	4.976	0.001
FE	5.098	-0.002	98.138	97.717	0.372	100.480	99.568	4.986	0.002
K	5.167	-0.105	-0.074	-0.086	10524.380	0.236	0.168	5.166	0.007
LA	5.106	0.003	0.005	0.007	-0.009	0.003	0.005	4.977	0.005
LI	5.027	0.001	0.002	0.980	-0.006	-0.002	0.984	4.920	-0.000
MG	5.020	0.001	9.463	9.487	0.061	9.698	9.642	4.838	0.001
MN	5.089	0.001	-0.003	-0.003	0.017	-0.003	-0.003	4.936	0.001
MO	5.002	0.008	-0.001	-0.003	-0.001	-0.004	-0.003	4.774	0.005
NA	4.992	0.007	0.193	0.178	3.264	0.183	0.177	4.845	-0.009
ND	5.284	-0.023	-0.003	-0.008	-0.291	-0.033	-0.005	5.222	-0.004
NI	5.072	0.001	-0.042	-0.039	0.329	-0.044	-0.042	4.898	-0.001
P	4.794	-0.017	0.010	-0.007	0.302	-0.016	0.015	4.684	0.012
PB	5.089	-0.006	-0.005	-0.010	0.113	-0.011	-0.007	4.940	0.011
S	4.900	-0.005	0.095	0.099	-0.036	0.104	0.103	4.694	-0.010
SB	4.799	-0.007	0.002	0.016	-0.329	0.021	0.039	4.657	0.037
SE	5.187	0.017	0.064	0.056	0.332	0.032	0.037	4.997	0.035
SI	4.677	0.002	0.139	0.102	0.220	0.138	0.106	4.522	-0.010
SM	5.025	-0.020	-0.004	-0.027	-0.929	-0.013	0.007	4.688	-0.029
SR	4.985	0.001	0.001	0.000	0.014	-0.000	0.000	4.818	0.001
TI	4.893	0.001	0.002	-0.000	-0.013	0.001	0.001	4.730	0.000
TL	4.975	-0.009	-0.053	-0.090	-1.603	-0.050	-0.019	4.774	-0.052
U	9.449	-0.044	0.030	-0.063	-4.529	-0.027	0.076	9.023	-0.147
V	5.004	0.001	-0.001	-0.003	-0.006	-0.001	-0.001	4.859	-0.001
ZN	5.092	0.001	0.006	-0.012	0.058	0.007	-0.006	4.945	-0.000
ZR	5.012	-0.000	-0.001	-0.003	-0.051	-0.003	0.000	4.867	-0.001

830

Sample Point SY-103
Date 10/18/94
Tech DKS
Units ppm

Weight	0.4307	0.4447	0.5482	0.5255
Fin. Vol.	5250	5250	5250	5250

Time	10:56	11:00	11:07	11:10
	S94T000069	S94T000069_	S94T000094	S94T000094_D
AG	40.236	26.872	-11.239	-130.841
AL	34449.506	34500.695	36527.751	33912.381
AS	60.801	-6.777	17.516	64.010
B	48.554	49.062	52.146	40.352
BA	23.510	24.509	13.113	-37.198
BE	5.785	2.863	3.307	1.163
BI	-81.566	-127.765	29.651	-645.217
CA	364.277	312.091	646.822	281.987
CD	-4.918	5.662	18.931	9.733
CE	326.371	-71.017	-180.219	-1448.605
CO	-16.445	-5.523	25.263	-16.014
CR	4858.001	4507.360	8283.346	7717.550
CU	-7.292	10.354	10.180	9.008
FE	1231.243	1234.437	2228.919	2020.612
K	6183861.074	6167013.827	5109765.350	5159430.360
LA	29.421	56.334	90.494	-65.015
LI	-10.446	-8.358	-7.132	-8.149
MG	56.507	59.059	68.624	54.643
MN	462.776	420.290	758.949	707.349
MO	54.411	46.338	56.753	59.204
NA	173233.047	172937.345	179189.348	171511.014
ND	-81.652	-151.016	-497.174	-61.429
NI	2055.016	1792.387	896.982	646.457
P	2080.321	1981.646	3051.280	3040.750
PB	170.757	153.831	113.344	27.437
S	2178.508	2270.745	2743.257	2413.573
SB	381.287	-278.291	117.920	-5.348
SE	445.774	407.588	304.304	415.758
SI	369.182	355.568	530.384	60.017
SM	212.722	175.683	-382.276	-3097.993
SR	1.549	3.773	4.923	4.330
TI	14.829	11.136	-0.388	-72.878
TL	173.004	268.354	-432.787	-4203.030
U	1230.544	1251.799	-369.559	-12416.133
V	0.112	-0.736	-25.559	-106.998
ZN	-12.542	-13.756	63.847	128.454
ZR	72.715	61.149	12.766	-217.097

LABCORE Data Entry Template for Worklist# 82

Analyst: JK Soto **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.923	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.973	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000095	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<1.03 E2	103 E2	ug/g
7	DUP	S94T000095	0	F	@ICP-F03 LI-F-01	SOLID	<1.03e2	<90.7	N/A	ug/g
8	SAMPLE	S94T000096	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<96.1	96.1	ug/g
9	DUP	S94T000096	0	F	@ICP-F03 LI-F-01	SOLID	<96.1	<101	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.986	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.940	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Reject BW 11-4-94

Final page for worklist # 82

JK Soto
Analyst Signature

10-18-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Sample:	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000095	S94T000095	S94T000096
Matrix:	LIQUID	LIQUID	LIQUID	LIQUID	FUSION	FUSION	FUSION	FUSION
Comment:	36B48A	2% HNO3	ICSA	ICSAB	DIG BLANK, .5-10ML	SAMDIL, .5079G IN 250ML, .5-1	DUPDIL, .5787G IN 250ML, .5-1	SAMDIL, .5461G IN 250ML, .5-1
Time:	13:13	13:17	13:20	13:24	13:40	13:46	13:50	13:55
Weight:	1.0000	1.0000	1.0000	1.0000	1.0000	0.5079	0.5787	0.5461
Volume:	1.0	1.0	1.0	1.0	21.0	5250.0	5250.0	5250.0
Ag	4.964	-0.001	-0.005	-0.005	0.016	-6.326	-13.084	39.015
Al	4.824	-0.017	100.511	99.009	-0.057	35810.319	35557.695	33228.104
As	4.782	-0.003	-0.003	0.000	0.067	-54.190	55.179	22.302
B	4.956	0.003	0.004	0.005	-0.011	68.286	57.952	45.547
Ba	4.896	0.000	-0.001	-0.000	0.031	7.397	2.174	28.014
Be	5.018	0.001	0.001	0.001	0.003	3.836	4.738	2.882
Bi	4.839	-0.009	-0.006	0.025	0.293	-133.306	-107.725	-62.147
Ca	5.017	0.001	9.196	9.651	0.283	443.618	392.117	367.886
Cd	4.940	-0.000	-0.005	-0.005	-0.012	-5.835	7.333	13.237
Ce	4.699	0.007	-0.014	0.010	0.249	-83.453	-270.358	250.063
Co	4.834	0.000	0.000	0.003	-0.000	-4.412	4.162	-34.353
Cr	4.919	0.001	-0.004	-0.003	0.068	7747.686	7987.083	9009.795
Cu	4.990	-0.001	-0.008	-0.008	-0.006	2.012	11.630	2.749
Fe	4.979	0.000	99.078	97.178	0.131	2054.092	2080.983	2481.778
K	4.997	-0.066	-0.169	-0.088	11453.297	5500500.136	4514390.636	4769016.065
La	5.008	0.002	0.003	0.003	0.170	34.441	57.605	101.884
Li	4.923	-0.001	0.000	0.973	-0.016	-2.689	-6.076	-5.022
Mg	4.841	0.001	9.500	9.463	0.052	66.798	60.431	75.378
Mn	4.946	0.000	-0.004	-0.003	0.040	717.193	731.903	849.046
Mo	4.801	0.009	-0.001	-0.001	-0.019	59.930	76.569	53.271
Na	4.870	-0.012	0.189	0.184	3.243	173200.780	174152.307	180460.990
Nd	5.302	-0.038	0.023	0.012	-0.561	-153.181	-100.376	29.368
Ni	4.908	-0.003	-0.042	-0.042	1.423	1138.309	1030.889	1238.836
P	4.595	0.003	0.021	0.011	0.041	2340.294	2223.438	5890.745
Pb	4.936	0.001	-0.020	-0.016	0.023	103.478	-0.536	37.211
S	4.665	-0.006	0.102	0.095	-0.082	2679.500	2682.728	2659.546
Sb	4.626	-0.004	0.051	0.006	0.445	301.999	-287.125	-113.913
Se	5.006	0.036	0.052	0.033	0.246	137.917	245.759	180.955
Si	4.528	-0.010	0.123	0.098	0.419	202.827	197.249	444.756
Sm	4.747	-0.044	-0.101	-0.036	0.437	-619.634	-693.759	442.212
Sr	4.835	0.001	0.001	0.001	0.001	6.660	6.723	4.899
Ti	4.738	0.000	-0.000	-0.001	0.012	-8.009	-12.145	19.756
Tl	4.725	-0.074	-0.193	-0.107	0.461	-939.431	-1205.760	349.414
U	9.104	-0.219	-0.352	-0.119	1.913	-1829.548	-1981.655	2918.076
V	4.868	-0.001	-0.005	-0.002	0.001	-20.839	-27.502	22.931
Zn	4.931	0.001	0.032	-0.003	-0.085	3.800	17.918	110.087
Zr	4.873	-0.004	-0.009	-0.003	0.107	-0.892	-6.926	105.444

833

October 18,

Sample:	S94T000096	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix:	FUSION	LIQUID	LIQUID	LIQUID	LIQUID
Comment:	DUPDIL, .5188G IN 250ML, .5-1	ICSA	ICSAB	36B48A	2% HNO3
Time:	14:00	14:06	14:11	14:18	14:22
Weight:	0.5188	1.0000	1.0000	1.0000	1.0000
Volume:	5250.0	1.0	1.0	1.0	1.0
Ag	26.206	-0.005	-0.003	4.930	0.009
Al	34076.879	101.294	100.161	4.872	0.004
As	14.876	0.007	0.006	4.816	-0.006
B	51.090	0.001	0.003	4.940	0.001
Ba	22.335	-0.001	-0.000	4.877	0.001
Be	4.072	0.001	0.001	5.056	0.001
Bi	150.763	-0.008	0.012	4.836	-0.008
Ca	422.369	9.277	9.838	4.986	0.001
Cd	17.497	-0.007	-0.004	4.963	-0.000
Ce	43.319	-0.003	0.017	4.778	0.010
Co	-9.296	-0.000	-0.001	4.877	-0.003
Cr	9582.127	-0.005	-0.008	4.940	0.003
Cu	26.260	-0.010	-0.010	4.968	-0.001
Fe	2556.898	99.781	98.860	5.010	0.006
K	5156832.000	0.235	0.175	5.154	0.137
La	103.250	0.003	0.007	4.967	0.007
Li	0.749	-0.000	0.986	4.940	-0.000
Mg	68.176	9.533	9.535	4.880	0.001
Mn	891.678	-0.004	-0.003	4.944	0.000
Mo	51.402	-0.004	-0.003	4.824	0.004
Na	182766.336	0.207	0.190	4.872	0.008
Nd	-61.511	0.008	0.005	5.166	-0.029
Ni	1952.723	-0.044	-0.041	4.915	0.002
P	7627.184	0.005	-0.002	4.703	0.008
Pb	152.059	-0.021	-0.002	4.959	-0.015
S	2547.297	0.105	0.103	4.764	-0.004
Sb	283.807	-0.008	0.032	4.653	0.006
Se	200.729	0.048	0.043	4.983	0.027
Si	491.217	0.129	0.100	4.544	-0.004
Sm	144.985	-0.070	-0.041	4.794	0.017
Sr	6.151	0.000	0.000	4.830	0.001
Ti	7.774	-0.000	0.000	4.747	0.001
Tl	196.169	-0.117	-0.050	4.741	0.052
U	1594.996	-0.287	-0.068	8.838	0.115
V	17.026	-0.005	-0.003	4.866	0.002
Zn	43.905	0.051	-0.001	4.987	-0.004
Zr	65.584	-0.007	-0.002	4.870	0.003

LABCORE Data Entry Template for Worklist# 83

Analyst: JK Soto **Instrument:** ICP01 _____ **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.198	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.995	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000097	0	F	@ICP-F03 LI-F-01	SOLID	N/A	< 112	112	ug/g
7	DUP	S94T000097	0	F	@ICP-F03 LI-F-01	SOLID	<112	< 118	N/A	ug/g
8	SAMPLE	S94T000098	0	F	@ICP-F03 LI-F-01	SOLID	N/A	2080	120	ug/g
9	DUP	S94T000098	0	F	@ICP-F03 LI-F-01	SOLID	2080	1807	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.986	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.097	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Reject BW 11-11-94

Final page for worklist # 83

JK Soto
Analyst Signature

10-19-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000097	S94T000097_D
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION SOL	FUSION SOL
Comment	36B48A	2% HNO3	ICSA	ICSAB	PREPBLK FOR S94T000097&98, .5-10ML	SAMDIL, .4694G IN 250ML, .5-10ML	DUPDIL, .4446G IN 250ML, .5-10ML
Time	9:55	9:58	10:02	10:05	10:23	10:29	10:33
Weight	1	1	1	1	1	0.4694	0.4446
Volume	1	1	1	1	21	5250	5250
Units	ppm	ppm	ppm	ppm	ppm	µg/g received	µg/g received
Ag	5.225	0.001	-0.004	-0.003	-0.043	-22.924	29.950
Al	5.135	0.009	103.318	101.783	0.236	37584.141	36202.107
As	5.122	0.005	0.004	-0.001	0.225	-17.494	64.572
B	5.139	0.005	0.014	0.012	0.010	110.028	69.079
Ba	5.224	0.001	-0.000	-0.001	0.003	10.082	33.753
Be	5.363	0.001	0.001	0.001	-0.009	-3.643	-2.038
Bi	5.150	-0.015	-0.003	-0.010	-0.458	-193.516	15.617
Ca	5.292	0.001	9.409	9.910	0.456	323.266	849.305
Cd	5.245	0.000	-0.004	-0.005	-0.033	7.631	19.838
Ce	5.161	-0.026	-0.040	-0.017	-0.569	-196.424	27.754
Co	5.181	0.005	0.002	0.002	0.010	29.524	14.592
Cr	5.225	0.002	-0.005	-0.005	0.013	10821.125	10797.751
Cu	5.262	0.002	-0.008	-0.008	0.001	11.114	11.145
Fe	5.236	0.005	100.952	99.344	0.372	3812.144	3627.861
K	5.207	-0.013	-0.083	-0.026	11328.642	5946096.652	9193845.434
La	5.233	-0.005	0.001	-0.001	-0.057	-11.249	83.655
Li	5.198	0.003	0.000	0.995	-0.008	-1.633	7.784
Mg	5.166	0.001	9.727	9.690	0.101	72.241	70.125
Mn	5.215	0.001	-0.002	-0.002	0.044	1164.897	1157.132
Mo	5.155	0.008	0.003	0.002	0.017	89.126	122.749
Na	5.156	0.012	0.185	0.193	3.416	197152.360	195783.152
Nd	5.336	0.026	0.032	0.024	-0.087	372.391	447.420
Ni	5.209	-0.002	-0.041	-0.041	1.699	1832.743	6682.067
P	4.852	-0.005	0.015	0.013	-0.059	3377.471	2778.095
Pb	5.147	0.005	-0.011	-0.014	0.014	275.474	381.644
S	5.031	-0.008	0.103	0.099	-0.149	1842.536	2229.805
Sb	4.904	-0.001	0.023	-0.041	-1.037	-255.001	-353.586
Se	5.254	-0.009	0.010	0.015	-0.063	112.551	-45.792
Si	4.662	0.002	0.159	0.109	0.631	315.208	585.421
Sm	5.097	-0.009	-0.040	-0.047	-0.953	-777.154	392.176
Sr	5.174	0.001	0.001	0.001	-0.001	5.711	6.342
Ti	5.063	0.000	0.001	-0.001	-0.030	-22.082	8.245
Tl	5.080	-0.026	-0.053	-0.076	-1.551	-1032.740	573.612
U	9.446	-0.069	-0.118	-0.198	-3.686	-2175.779	2483.989
V	5.149	-0.000	-0.001	-0.002	-0.040	-26.534	13.491
Zn	5.205	-0.001	0.026	-0.008	0.133	132.760	80.231
Zr	5.175	-0.001	-0.005	-0.005	-0.062	2.812	35.668

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October 19, 1994

Sample	S94T000098	S94T000098_D	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION SOL	FUSION SOL	LIQUID	LIQUID	LIQUID	LIQUID
Comment	SAMDIL, .4383G IN 250ML, .5-10ML	DUPDIL, .4213G IN 250ML, .5-10ML	ICSA	ICSAB	36B48A	2% HNO3
Time	10:43	10:48	11:05	11:09	11:15	11:20
Weight	0.4383	0.4213	1	1	1	1
Volume	5250	5250	1	1	1	1
Units	µg/g received	µg/g received	ppm	ppm	ppm	ppm
Ag	-15.731	-5.747	-0.004	-0.004	5.140	0.003
Al	25356.872	22757.463	101.656	101.824	5.098	0.017
As	24.299	51.318	-0.006	-0.004	5.042	0.002
B	57.055	48.501	0.010	0.010	5.079	0.007
Ba	4.388	15.456	-0.000	-0.000	5.132	0.000
Be	-3.866	-5.655	0.000	0.001	5.276	0.001
Bi	162.689	-50.720	-0.001	-0.010	5.086	-0.013
Ca	274.024	271.136	9.086	9.837	5.221	0.001
Cd	2.963	3.218	-0.005	-0.006	5.192	0.001
Ce	-14.241	83.010	-0.015	-0.002	5.000	-0.017
Co	36.892	-0.223	0.004	-0.000	5.106	0.002
Cr	5165.942	4481.127	-0.003	-0.005	5.157	0.004
Cu	2.223	6.621	-0.010	-0.010	5.190	0.004
Fe	2396.937	1925.591	98.517	99.470	5.218	0.012
K	6386581.891	6807515.069	0.399	0.350	5.357	0.133
La	-16.170	4.869	0.002	0.001	5.173	-0.003
Li	2079.618	1807.199	0.000	0.986	5.097	0.003
Mg	44.024	36.374	9.527	9.743	5.085	0.002
Mn	504.350	444.161	-0.003	-0.002	5.158	0.001
Mo	36.406	45.513	-0.002	0.000	5.056	0.011
Na	78435.846	79561.705	0.203	0.184	5.080	0.034
Nd	173.957	403.062	0.027	0.009	5.372	0.025
Ni	1118.609	1011.760	-0.037	-0.041	5.146	0.001
P	1030.636	948.667	0.005	0.014	4.880	-0.006
Pb	59.223	-63.291	-0.007	-0.010	5.129	0.009
S	801.074	842.884	0.104	0.108	4.984	-0.004
Sb	-746.237	-71.469	0.007	0.231	4.853	0.002
Se	-257.307	4.033	0.015	0.013	5.185	-0.007
Si	333.083	656.418	0.162	0.111	4.586	-0.005
Sm	-610.348	-74.216	-0.008	-0.011	4.916	-0.044
Sr	0.406	3.548	0.000	-0.000	5.081	0.002
Ti	-9.477	3.056	0.001	-0.000	4.980	-0.000
Tl	-793.961	238.519	-0.048	-0.024	4.956	-0.023
U	-1949.266	999.124	0.029	0.029	9.090	-0.154
V	-30.538	-10.295	-0.002	-0.002	5.083	-0.000
Zn	152.524	186.151	0.027	-0.007	5.149	0.004
Zr	-48.052	14.605	-0.002	-0.003	5.100	-0.003

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LABCORE Data Entry Template for Worklist# 95

Analyst: JK Soto **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.011	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	~~<.01~~ 1 BW 11-4-94	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	~~0~~ 1 BW 11-4-94	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.992	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<2.10E-1 ~~<.01~~ BW 11-4-94	<2.10E-1 ~~<.01~~ BW 11-4-94	N/A	ug/g
6	SAMPLE	S94T000065	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<116	116	ug/g
7	DUP	S94T000065 Reject BW 11-7-94	0	F	@ICP-F03 LI-F-01	SOLID	<116	<114	N/A	ug/g
8	SAMPLE	S94T000066	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<81.1	81.1	ug/g
9	DUP	S94T000066	0	F	@ICP-F03 LI-F-01	SOLID	<81.1	<81.3	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.982	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.90	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	~~<~~ 1 BW 11-4-94	<0.01	N/A	ug/g

Final page for worklist # 95

JK Soto
Analyst Signature

10-20-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000065	S94T000065_D	S94T000066
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	FUSION LIQ	FUSION SOL	FUSION SOL	FUSION SOL
Comment	36B48A	2% HNO3	ICSA	ICSAB	PREPBLKARL .5-10ML	SAMDIL, .4532G IN 250ML, .5-10M	DUPDIL, .4582G IN 250ML, .5-10M	SAMDIL, .6476G IN 250ML, .5-10ML
Time	12:49	12:53	12:57	13:00	13:11	13:16	13:20	13:25
Weight	1	1	1	1	1	0.4532	0.4582	0.6476
Volume	1	1	1	1	21	5250	5250	5250
Units	ppm	ppm	ppm	ppm	ppm	µg/g received	µg/g received	µg/g received
Ag	5.006	0.003	0.004	-0.000	-0.006	189.917	-28.848	0.420
Al	4.774	-0.013	97.992	98.055	0.550	47580.736	46326.620	23144.566
As	4.914	0.006	0.004	0.004	0.143	249.263	17.582	14.066
B	4.484	0.001	0.014	0.010	-0.019	143.166	59.693	26.448
Ba	4.992	0.000	-0.001	-0.001	0.012	84.633	-7.537	-0.360
Be	5.131	0.000	-0.000	-0.000	-0.029	0.300	-16.441	-10.460
Bi	4.970	-0.013	-0.004	0.011	-0.353	860.445	-306.525	42.532
Ca	5.084	0.000	9.187	9.893	0.485	339.351	291.451	113.649
Cd	5.052	0.001	-0.004	-0.004	0.002	23.044	-6.633	6.399
Ce	4.845	0.027	0.037	-0.024	-1.100	2612.536	-199.234	242.078
Co	4.952	0.002	0.001	0.000	0.028	90.748	-4.866	-3.744
Cr	5.019	-0.001	-0.008	-0.007	-0.041	87.224	-13.959	41.168
Cu	5.077	-0.002	-0.010	-0.012	0.017	128.214	-3.933	8.410
Fe	5.046	-0.000	98.909	99.258	0.452	503.427	132.155	66.524
K	5.056	-0.036	-0.099	-0.051	16951.867	7585589.377	7634669.688	3756365.568
La	5.067	0.002	0.004	0.005	-0.029	219.119	-35.829	0.280
Li	5.011	-0.001	0.000	0.992	-0.022	90.703	-16.394	-2.140
Mg	4.957	0.000	9.571	9.677	0.051	51.018	12.742	4.407
Mn	5.033	0.000	-0.003	-0.003	0.036	29.834	8.631	-1.766
Mo	4.944	-0.005	-0.014	-0.017	-0.327	25.991	-50.220	-47.165
Na	4.593	-0.020	0.171	0.137	4.994	249266.390	250007.300	128271.719
Nd	5.285	-0.013	-0.001	0.010	0.140	1072.063	3.135	151.569
Ni	5.008	0.001	-0.044	-0.043	3.321	702.719	547.124	360.067
P	4.910	-0.001	0.012	0.010	-0.017	1542.003	1230.512	1316.559
Pb	5.023	0.001	-0.017	-0.013	0.195	411.995	92.859	82.178
S	4.879	0.011	0.121	0.112	0.067	1632.121	1385.554	751.602
Sb	4.759	-0.053	-0.005	-0.042	-0.869	-114.811	-548.701	-282.010
Se	5.180	0.015	0.024	0.021	0.325	829.110	144.280	200.327
Si	4.584	-0.000	0.169	0.116	-0.106	886.056	141.026	84.632
Sm	4.865	0.006	-0.023	-0.019	-0.171	4116.721	-597.234	101.967
Sr	4.940	0.000	-0.000	-0.001	-0.014	22.402	-10.793	-6.610
Ti	4.847	-0.000	0.000	-0.002	-0.028	93.720	-26.702	-10.413
Tl	4.900	0.014	-0.044	-0.025	-1.141	5512.648	-685.823	110.309
U	9.443	0.019	-0.042	-0.026	-1.056	17825.470	-2296.667	680.967
V	4.961	0.001	-0.005	-0.002	-0.050	138.269	-34.261	-13.221
Zn	5.042	0.002	0.018	-0.018	-0.166	58.966	-60.694	-100.743
Zr	4.963	0.001	-0.002	-0.003	-0.030	299.038	-52.391	9.910

October 20,

Sample	S94T000066_D	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION SOL	LIQUID	LIQUID	LIQUID	LIQUID
Comment	DUPDIL, .6456G IN 250ML, .5-10M	ICSA	ICSAB	36B48A	2% HNO3
Time	13:33	13:50	13:53	13:59	14:03
Weight	0.6456	1	1	1	1
Volume	5250	1	1	1	1
Units	µg/g received	ppm	ppm	ppm	ppm
Ag	-13.890	-0.003	-0.004	4.854	0.002
Al	23500.261	99.093	97.059	4.681	-0.008
As	72.836	0.000	0.001	4.774	-0.002
B	38.947	0.016	0.010	4.337	-0.001
Ba	-8.452	-0.001	-0.002	4.844	0.000
Be	-11.983	-0.001	-0.001	4.995	-0.000
Bi	-143.549	0.015	0.010	4.829	-0.010
Ca	129.058	9.305	9.794	4.927	0.001
Cd	-8.783	-0.007	-0.006	4.901	-0.001
Ce	-63.545	-0.026	-0.031	4.736	0.010
Co	18.344	-0.003	0.000	4.818	0.001
Cr	15.585	-0.012	-0.010	4.869	-0.002
Cu	5.464	-0.011	-0.012	4.926	-0.002
Fe	40.231	100.214	97.952	4.938	0.012
K	3797698.806	0.176	0.138	5.070	0.064
La	-19.904	0.003	0.004	4.888	0.001
Li	-5.509	-0.002	0.982	4.898	-0.001
Mg	4.365	9.670	9.513	4.825	0.000
Mn	-2.520	-0.004	-0.004	4.883	-0.001
Mo	-57.283	-0.018	-0.019	4.757	-0.011
Na	130289.219	0.178	0.161	4.501	-0.010
Nd	189.454	0.018	0.001	5.116	0.000
Ni	315.323	-0.044	-0.041	4.851	0.002
P	1347.533	0.018	0.015	4.830	-0.002
Pb	118.340	-0.017	-0.017	4.854	0.017
S	611.104	0.105	0.110	4.773	0.005
Sb	-425.348	-0.002	-0.025	4.642	-0.057
Se	48.364	0.034	0.026	4.989	0.000
Si	21.721	0.190	0.112	4.444	0.001
Sm	-336.710	-0.010	-0.018	4.734	0.035
Sr	-6.866	-0.001	-0.001	4.795	-0.000
Ti	-20.748	-0.001	-0.002	4.713	0.000
Tl	-383.809	-0.031	-0.037	4.736	0.019
U	-1571.581	0.016	-0.080	9.037	0.115
V	-27.923	-0.003	-0.004	4.806	-0.002
Zn	-111.331	-0.006	-0.011	4.921	-0.008
Zr	-36.496	-0.002	-0.004	4.814	0.001

LABCORE Data Entry Template for Worklist# 126

Analyst: D.K. Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion, Li only (SY103) rerun 1:10 WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.15	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.01	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<.11	<.11	N/A	ug/g
6	SAMPLE	S94T000065	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<60.7	60.7	ug/g
7	DUP	S94T000065	0	F	@ICP-F03 LI-F-01	SOLID	<60.7	<60.0	N/A	ug/g
8	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<.11	<.11	N/A	ug/g
9	SAMPLE	S94T000069	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<63.8	63.8	ug/g
10	DUP	S94T000069	0	F	@ICP-F03 LI-F-01	SOLID	<63.8	<61.8	N/A	ug/g
11	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
12	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.022	N/A	ug/g
13	CCV				@ICP-F03 LI-F-01	SOLID	5	5.14	N/A	ug/g
14	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Final page for worklist # 126

DK Sato
Analyst Signature

11-04-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

11-4-94

Identity 1: icsab Identity 2: 10:30 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	0.000	0.024	0.015	104.708	0.006	-0.007	1.024
S.D.	0.001	0.000	0.009	0.003	0.691	0.001	0.000	0.005
% R.S.D.	44.552	42.414	38.277	17.590	0.660	12.288	5.102	0.470

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.217	0.001	0.007	103.111	10.520	-0.000	0.019	-0.148
S.D.	0.001	0.001	0.001	0.630	0.050	0.001	0.019	0.025
% R.S.D.	0.242	77.183	9.379	0.611	0.474	1631.969	101.880	16.695

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.033	-0.044	-0.001	0.018	0.039	9.944	0.000	0.116
S.D.	0.010	0.012	0.000	0.012	0.002	0.053	0.004	0.007
% R.S.D.	31.166	26.386	11.009	66.213	4.611	0.536	5568.978	6.453

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.001	-0.002	-0.017	-0.001	-0.003	-0.008	-0.081
S.D.	0.000	0.024	0.000	0.010	0.000	0.000	0.001	0.019
% R.S.D.	1.353	2157.449	10.046	57.301	25.552	7.547	16.531	23.945

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.035	-0.002	0.001	-0.077
S.D.	0.000	0.019	0.001	0.000	0.008
% R.S.D.	4.443	55.843	32.423	5.662	10.336

11-4-94

E

Identity 1: ICV Identity 2: 36B48A 11:05 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

54-103 594T000065
594T000069

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.136	5.108	5.080	4.743	5.104	5.128	5.233	5.153
S.D.	0.032	0.034	0.038	0.020	0.031	0.031	0.031	0.028
% R.S.D.	0.619	0.671	0.740	0.421	0.608	0.613	0.593	0.546

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.265	5.164	5.217	5.206	5.175	5.177	5.417	9.336
S.D.	0.028	0.018	0.032	0.027	0.033	0.026	0.055	0.027
% R.S.D.	0.526	0.354	0.609	0.526	0.640	0.502	1.021	0.284

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.046	5.115	5.155	5.214	5.138	5.118	5.069	5.085
S.D.	0.027	0.029	0.035	0.121	0.043	0.029	0.023	0.033
% R.S.D.	0.529	0.563	0.674	2.325	0.828	0.569	0.454	0.655

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.092	5.211	5.069	5.129	5.001	5.215	5.128	5.234
S.D.	0.030	0.050	0.025	0.022	0.028	0.032	0.024	0.020
% R.S.D.	0.594	0.951	0.500	0.431	0.552	0.610	0.459	0.379

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.193	4.844	5.118	5.330	5.015
S.D.	0.029	0.024	0.031	0.030	0.016
% R.S.D.	0.553	0.504	0.610	0.557	0.311

E

Identity 1: ICB Identity 2: 2% HNO3 11:09 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
n-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	0.001	-0.012	-0.010	0.003	0.003	0.001	0.002
S.D.	0.001	0.000	0.017	0.002	0.006	0.001	0.000	0.000
% R.S.D.	15.011	10.806	144.283	19.621	203.344	24.439	33.823	9.437

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.062	-0.004	-0.001	0.003	-0.001	0.001	-0.009	-0.411
S.D.	0.000	0.001	0.003	0.002	0.000	0.001	0.010	0.054
% R.S.D.	0.261	18.832	203.941	96.394	16.063	195.414	108.638	13.209

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.019	-0.100	-0.001	-0.001	-0.032	-0.001	0.000	-0.012
S.D.	0.005	0.015	0.000	0.005	0.002	0.000	0.003	0.006
% R.S.D.	27.234	15.238	11.503	706.370	7.005	13.286	2320.130	48.042

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.002	-0.003	-0.001	-0.002	0.001	-0.001	-0.130
S.D.	0.001	0.016	0.000	0.003	0.000	0.000	0.001	0.025
% R.S.D.	25.888	748.506	4.502	359.124	21.598	23.680	97.385	19.170

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	-0.001	-0.003	0.001	-0.113
S.D.	0.000	0.003	0.001	0.000	0.017
% R.S.D.	48.446	309.675	23.535	32.376	14.948

Identity 1: ICS-A Identity 2: ICSA 11:14 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	0.000	-0.013	0.012	102.731	0.007	-0.005	0.000
S.D.	0.002	0.000	0.005	0.002	0.271	0.001	0.001	0.000
% R.S.D.	32.280	0.319	38.698	17.402	0.264	10.653	9.651	49.384

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.216	-0.000	0.005	101.392	10.268	0.001	0.013	-0.202
S.D.	0.000	0.001	0.001	0.081	0.004	0.002	0.016	0.069
% R.S.D.	0.141	1670.316	17.801	0.080	0.039	110.927	120.060	34.074

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.002	-0.059	-0.001	0.011	0.045	9.737	0.003	0.106
S.D.	0.013	0.021	0.000	0.007	0.006	0.010	0.002	0.007
% R.S.D.	563.624	35.829	26.484	58.349	13.084	0.106	80.039	6.681

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.005	-0.002	-0.015	-0.001	-0.002	-0.008	-0.093
S.D.	0.001	0.007	0.001	0.003	0.000	0.001	0.001	0.018
% R.S.D.	14.869	140.039	26.976	21.461	31.516	36.417	13.711	19.287

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.015	-0.001	0.001	-0.072
S.D.	0.000	0.016	0.000	0.000	0.017
% R.S.D.	13.791	103.006	63.893	18.309	24.019

E

Identity 1: ICS-AB Identity 2: ICSAB 11:19 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	-0.000	0.014	0.015	103.653	0.006	-0.008	1.009
S.D.	0.001	0.000	0.014	0.002	0.714	0.001	0.000	0.005
% R.S.D.	33.229	43.332	99.734	11.463	0.689	13.195	2.752	0.478

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.209	-0.002	0.006	102.335	10.385	-0.001	0.008	-0.122
S.D.	0.000	0.002	0.002	0.546	0.054	0.002	0.009	0.048
% R.S.D.	0.091	78.531	31.940	0.533	0.517	126.496	121.193	39.286

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.037	-0.039	-0.000	0.004	0.041	9.839	-0.007	0.085
S.D.	0.006	0.010	0.000	0.002	0.005	0.051	0.003	0.003
% R.S.D.	17.038	25.112	41.750	37.064	11.580	0.522	41.268	3.333

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.006	-0.002	-0.017	-0.001	-0.003	-0.010	-0.045
S.D.	0.001	0.010	0.000	0.008	0.000	0.001	0.000	0.010
% R.S.D.	461.194	160.892	21.363	46.817	45.232	18.570	5.154	23.179

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.051	-0.002	0.001	-0.070
S.D.	0.000	0.007	0.001	0.000	0.012
% R.S.D.	11.481	14.225	28.406	11.954	16.972

E

Identity 1: PREPBLKARL Identity 2: Dig Blk, 1-10ml 11:27 AM November 4, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 11.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	0.001	0.055	0.386	0.193	0.004	-0.008	-0.006
S.D.	0.048	0.005	0.194	0.078	0.201	0.016	0.025	0.020
% R.S.D.	1056.250	383.316	352.837	20.319	103.987	383.374	299.300	320.430

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-2.166	5.456	0.057	0.381	0.361	0.034	0.080	0.211
S.D.	0.002	0.065	0.043	0.039	0.002	0.007	0.104	2.441
% R.S.D.	0.099	1.199	76.440	10.165	0.573	22.119	129.940	1155.661

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.468	0.051	0.035	-0.025	-0.699	0.034	0.024	5.013
S.D.	0.385	0.602	0.010	0.125	0.026	0.003	0.075	0.078
% R.S.D.	82.155	1181.373	28.721	506.382	3.667	9.384	307.383	1.560

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.200	0.013	-0.126	0.022	0.016	-0.005	17070.231
S.D.	0.008	0.025	0.023	0.029	0.013	0.007	0.013	194.369
% R.S.D.	237.610	12.735	173.174	23.004	59.393	47.403	263.956	1.139

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.048	0.221	-0.000	-0.002	0.181
S.D.	0.002	0.006	0.021	0.003	0.670
% R.S.D.	3.347	2.820	7162.610	165.160	369.218

E

Identity 1: S94T000065_L Identity 2: .4532g in 250,1-10ml 11:39 AM November 4, 1994
Task name : TWC93
Sample Weight : 0.4532 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-074, REV. 0

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-3.970	1.136	56.464	419.744	48690.037	-7.902	-3.289	-1.079
S.D.	22.152	2.438	72.324	34.252	311.513	7.784	11.639	9.079
% R.S.D.	557.970	214.611	128.088	8.160	0.640	98.510	353.871	841.463

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1237.184	727.051	3.610	127.715	262.848	46.711	45.479	-766.547
S.D.	0.407	15.224	23.992	9.440	3.777	4.900	167.992	1241.765
% R.S.D.	0.033	2.094	664.575	7.391	1.437	10.490	369.387	161.995

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	232.447	-152.996	10.502	1332.805	1055.564	-3.392	-29.209	273092.537
S.D.	179.989	303.308	5.510	33.303	25.798	1.211	22.091	2417.511
% R.S.D.	77.432	198.246	52.463	2.499	2.444	35.704	75.631	0.885

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	165.770	-25.130	-4.109	-33.881	-2.689	3.795	109.381	7598290.078
S.D.	6.777	15.010	10.758	42.978	8.615	0.651	8.912	50523.058
% R.S.D.	4.088	59.729	261.812	126.849	320.347	17.153	8.148	0.665

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	12.499	-59.321	-5.360	1.537	-159.837
S.D.	0.877	67.321	8.385	1.488	373.638
% R.S.D.	7.014	113.486	156.445	96.771	233.762

E

Identity 1: S94T000065_DL Identity 2: .4582g in 250,1-10ml 11:45 AM November 4, 1994

Task name : TWC93

Sample Weight : 0.4582 Solution Volume : 2750.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-2.490	0.935	-10.619	407.049	47411.227	-20.927	-7.181	-2.993
S.D.	11.059	0.844	39.728	8.911	553.291	4.480	6.590	5.702
% R.S.D.	444.115	90.317	374.132	2.189	1.167	21.409	91.778	190.520

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1132.182	695.330	11.349	120.954	288.907	33.714	34.204	-532.857
S.D.	2.159	6.277	3.324	4.343	4.051	13.429	30.100	474.503
% R.S.D.	0.191	0.903	29.288	3.591	1.402	39.831	88.002	89.049

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	80.561	-118.195	10.350	1282.890	963.530	-2.564	-13.864	265608.343
S.D.	86.518	123.852	2.026	47.362	47.681	0.582	10.780	2601.242
%								

R.S.D.	107.394	104.786	19.574	3.692	4.949	22.714	77.752	0.979

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
ıean	155.771	-39.294	-1.228	5.172	1.102	6.070	120.997	7311300.765
S.D.	5.968	90.726	5.877	43.346	2.240	2.218	4.032	59949.427
% R.S.D.	3.831	230.887	478.658	838.042	203.303	36.546	3.332	0.820

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	13.894	-349.722	-1.742	1.769	-140.944
S.D.	0.537	43.790	2.273	0.707	212.912
% R.S.D.	3.863	12.521	130.459	39.988	151.062

E

Identity 1: PREPBLKARL Identity 2: Dig Blk, 1-10ml 11:53 AM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-4.584	0.515	-25.340	131.844	24.591	-2.346	-0.715	3.039
S.D.	5.442	0.439	25.418	7.820	14.561	4.132	2.158	3.069
% R.S.D.	118.710	85.253	100.310	5.931	59.214	176.135	301.948	100.975

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-540.414	-5.203	2.492	13.665	12.578	2.440	11.772	-390.699
S.D.	0.825	1.954	3.129	1.076	0.098	1.386	40.175	209.176
% R.S.D.	0.153	37.560	125.553	7.872	0.777	56.806	341.291	53.539

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	117.839	-99.276	1.668	-28.120	-228.649	-14.036	-4.195	1002.120
S.D.	43.310	60.723	1.150	13.141	5.753	0.155	1.388	23.305
% R.S.D.	36.753	61.166	68.931	46.732	2.516	1.104	33.096	2.326

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	2.919	-60.741	-4.191	4.040	-3.069	-0.201	1.223	2695251.878
S.D.	1.148	29.792	2.069	4.489	1.515	0.166	2.660	10744.210
% R.S.D.	39.340	49.047	49.379	111.108	49.367	82.907	217.446	0.399

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-4.081	12.427	0.056	-0.349	-31.458
S.D.	0.844	41.229	3.694	0.178	105.879
% R.S.D.	20.693	331.757	6552.612	51.068	336.575

E

Identity 1: S94T000069_L Identity 2: .4307g in 250,1-10ml 12:04 PM November 4, 1994
Task name : TWC93
Sample Weight : 0.4307 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	33.431	1.997	-92.146	396.216	35174.588	5.550	0.373	4.329
S.D.	28.622	2.903	19.418	33.700	232.072	4.718	13.557	8.922
% R.S.D.	85.613	145.374	21.073	8.505	0.660	84.999	3630.895	206.122

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1237.056	2757.456	26.137	1268.695	203.506	4847.859	4.814	-1749.822
S.D.	0.418	46.401	27.288	28.978	2.616	23.364	116.850	1423.255
% R.S.D.	0.034	1.683	104.406	2.284	1.285	0.482	2427.238	81.337

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	35.672	-592.002	6.666	2637.919	2004.003	21.460	17.085	176728.577
S.D.	221.658	351.854	5.661	133.801	29.113	0.327	32.538	1632.523
% R.S.D.	621.378	59.435	84.913	5.072	1.453	1.523	190.448	0.924

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	80.519	-96.258	-5.425	-26.241	-8.433	13.192	63.387	6156832.071
S.D.	3.023	95.461	12.749	42.806	8.049	2.951	4.987	56682.871
% R.S.D.	3.755	99.172	234.997	163.128	95.448	22.366	7.868	0.921

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	457.737	-56.413	-11.685	1.046	-549.017
S.D.	4.504	128.163	11.397	0.133	427.000
% R.S.D.	0.984	227.188	97.536	12.726	77.775

E

Identity 1: S94T000069_DL Identity 2: .4447g in 250,1-10ml 12:09 PM November 4, 1994

Task name : TWC93

Sample Weight : 0.4447 Solution Volume : 2750.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	53.983	2.102	53.728	411.757	34778.749	-5.621	-4.325	-2.425
S.D.	8.368	0.871	90.355	7.254	224.581	4.655	2.399	2.383
% R.S.D.	15.501	41.452	168.172	1.762	0.646	82.802	55.478	98.265

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1170.088	2335.127	43.862	1214.412	182.006	4516.099	-41.448	141.362
S.D.	3.613	3.087	20.740	11.300	1.716	31.887	11.422	397.517
% R.S.D.	0.309	0.132	47.284	0.930	0.943	0.706	27.556	281.206

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	394.600	-54.823	13.276	2060.629	1930.654	23.862	-48.346	175497.076
S.D.	71.564	117.530	1.982	24.856	40.174	0.918	22.462	1345.134
% R.S.D.	18.136	214.380	14.926	1.206	2.081	3.847	46.461	0.766

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	79.234	74.795	3.775	1.627	2.194	15.622	46.167	6011821.241
S.D.	6.569	69.719	3.538	60.382	2.577	0.993	10.717	38659.328
% R.S.D.	8.291	93.214	93.709	3711.581	117.443	6.359	23.213	0.643

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	414.630	-255.794	1.886	0.013	-120.612
S.D.	0.565	53.540	10.413	0.370	123.026
% R.S.D.	0.136	20.931	552.095	2795.759	102.002

E

Identity 1: ICS-A Identity 2: ICSA 12:18 PM November 4, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	-0.000	0.000	0.022	105.723	0.007	-0.005	-0.000
S.D.	0.001	0.000	0.003	0.001	0.639	0.001	0.001	0.000
% R.S.D.	40.728	46355.964	1202.736	6.445	0.605	10.233	11.978	50.887

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.209	0.000	0.007	104.029	10.601	0.001	0.015	0.015
S.D.	0.000	0.001	0.001	0.579	0.052	0.000	0.005	0.026
% R.S.D.	0.105	419.390	18.516	0.556	0.488	41.123	34.098	168.710

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.023	-0.001	-0.000	-0.008	0.049	9.941	-0.003	0.161
S.D.	0.008	0.008	0.000	0.010	0.001	0.038	0.001	0.006
% R.S.D.	36.329	777.734	42.939	128.184	2.396	0.377	51.462	3.509

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.008	-0.001	-0.030	0.000	-0.004	-0.010	0.690
S.D.	0.002	0.022	0.000	0.007	0.000	0.000	0.000	0.081
% R.S.D.	69.913	255.800	61.346	25.205	113.730	8.467	2.290	11.792

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.002	-0.000	0.001	-0.022
S.D.	0.000	0.012	0.001	0.000	0.008
% R.S.D.	5.282	525.984	1063.412	29.797	36.837

E

Identity 1: ICS-AB Identity 2: ICSAB 12:22 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	-0.000	0.001	0.015	104.760	0.007	-0.005	1.022
S.D.	0.002	0.000	0.009	0.001	0.885	0.001	0.001	0.007
% R.S.D.	35.137	502.218	1474.028	4.604	0.845	19.792	23.139	0.674

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.205	-0.002	0.009	103.084	10.518	-0.001	0.029	-0.222
S.D.	0.000	0.001	0.002	0.676	0.076	0.001	0.003	0.090
% R.S.D.	0.063	54.344	22.455	0.656	0.726	66.180	11.075	40.315

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.042	-0.061	-0.001	0.003	0.044	9.887	-0.000	0.153
S.D.	0.015	0.026	0.000	0.003	0.004	0.069	0.001	0.006
% R.S.D.	35.625	41.928	26.279	121.912	8.858	0.694	1441.933	3.704

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.009	-0.004	-0.029	-0.002	-0.003	-0.009	0.301
S.D.	0.001	0.004	0.001	0.003	0.001	0.000	0.001	0.040
% R.S.D.	58.441	39.754	16.763	10.005	36.368	9.615	8.131	13.225

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	-0.028	-0.002	0.001	-0.098
S.D.	0.000	0.013	0.001	0.000	0.034
% R.S.D.	17.507	46.571	64.107	0.984	35.214

E

Identity 1: CCV-1 Identity 2: 36B48A 12:33 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
n-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.096	5.087	5.088	4.717	5.136	5.163	5.212	5.144
S.D.	0.042	0.044	0.036	0.028	0.030	0.043	0.045	0.041
% R.S.D.	0.822	0.868	0.712	0.597	0.579	0.836	0.869	0.806

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.329	5.167	5.159	5.223	5.140	5.195	5.312	8.020
S.D.	0.039	0.047	0.046	0.046	0.050	0.036	0.062	0.020
% R.S.D.	0.729	0.915	0.898	0.878	0.968	0.698	1.168	0.248

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.069	4.757	5.118	5.303	5.198	5.143	5.103	5.090
S.D.	0.023	0.041	0.046	0.098	0.064	0.037	0.033	0.029
% R.S.D.	0.456	0.864	0.900	1.857	1.222	0.727	0.644	0.563

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.120	5.249	4.998	5.120	4.989	5.240	5.101	5.207
S.D.	0.040	0.042	0.042	0.032	0.040	0.037	0.047	0.038
% R.S.D.	0.790	0.797	0.837	0.616	0.807	0.701	0.918	0.733

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.184	4.856	5.099	5.350	4.590
S.D.	0.044	0.048	0.043	0.042	0.011
% R.S.D.	0.857	0.986	0.851	0.787	0.230

E

Identity 1: CCB-1 Identity 2: 2% HNO3 12:37 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.002	0.001	0.003	0.004	0.001	-0.001	-0.002	-0.000
S.D.	0.001	0.000	0.007	0.005	0.010	0.001	0.001	0.001
% R.S.D.	75.612	38.389	261.435	111.068	792.517	99.037	51.722	2771823.152

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.038	0.001	0.005	0.010	0.001	0.000	-0.015	0.013
S.D.	0.001	0.002	0.002	0.003	0.000	0.002	0.014	0.081
% R.S.D.	1.670	329.490	44.587	28.293	47.981	493.541	95.125	608.246

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.032	0.003	0.001	-0.006	-0.023	0.001	0.005	-0.007
S.D.	0.018	0.016	0.001	0.009	0.002	0.000	0.002	0.009
% R.S.D.	55.664	557.764	51.349	132.498	10.107	35.760	41.573	137.763

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	-0.042	0.007	-0.008	0.001	0.001	0.003	0.234
S.D.	0.000	0.018	0.001	0.006	0.001	0.001	0.002	0.026
% R.S.D.	5.521	42.365	9.332	66.953	45.125	40.383	62.510	11.261

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	-0.037	0.003	0.001	0.031
S.D.	0.000	0.029	0.002	0.000	0.026
% R.S.D.	46.434	78.355	62.647	33.575	82.344

E

JK Lee
11-04-94
SY-103 S94T000065
S94T000064

LABCORE Data Entry Template for Worklist# 127

Analyst: D.K. Sato **Instrument:** ICP01 _____ **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion Li only (SY103) rerun 1:10 SW 12-9-94 **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.92	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.986	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.11	N/A	ug/g
6	SAMPLE	S94T000095	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<54.1	54.1	ug/g
7	DUP	S94T000095	0	F	@ICP-F03 LI-F-01	SOLID	<54.1	<47.5	N/A	ug/g
8	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.11	N/A	ug/g
9	SAMPLE	S94T000097	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<58.6	58.6	ug/g
10	DUP	S94T000097	0	F	@ICP-F03 LI-F-01	SOLID	<58.6	<61.9	N/A	ug/g
11	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
12	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.974	N/A	ug/g
13	CCV				@ICP-F03 LI-F-01	SOLID	5	4.96	N/A	ug/g
14	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 127

D.K. Sato
Analyst Signature

11-08-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

WORKLIST # 127

Identity 1: ICV Identity 2: Quality Control 1:26 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.910	4.877	4.898	4.714	4.938	5.006	4.991	4.925
S.D.	0.037	0.036	0.032	0.031	0.028	0.030	0.035	0.034
% R.S.D.	0.763	0.747	0.651	0.656	0.560	0.599	0.703	0.692

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.225	4.979	4.934	4.994	4.633	4.992	4.962	9.866
S.D.	0.030	0.028	0.029	0.032	0.034	0.035	0.051	0.034
% R.S.D.	0.568	0.556	0.582	0.638	0.737	0.701	1.028	0.344

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.869	4.935	4.906	4.628	4.859	4.951	4.913	4.929
S.D.	0.035	0.029	0.037	0.062	0.022	0.033	0.053	0.029
% R.S.D.	0.725	0.579	0.755	1.335	0.456	0.669	1.079	0.591

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.963	5.416	4.948	4.950	4.804	5.030	4.878	4.985
S.D.	0.037	0.032	0.031	0.035	0.036	0.033	0.035	0.038
% R.S.D.	0.750	0.582	0.630	0.712	0.740	0.647	0.723	0.768

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	4.973	4.670	4.892	5.145	4.872
S.D.	0.035	0.019	0.034	0.037	0.005
% R.S.D.	0.705	0.404	0.699	0.714	0.096

11-08-94

SY-103 S94T000095
S94T000097

Identity 1: ICB Identity 2: Quality Control 1:30 PM November 8, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.003	0.001	0.009	0.007	-0.005	0.002	0.000	0.001
S.D.	0.002	0.001	0.015	0.005	0.006	0.001	0.001	0.001
% R.S.D.	72.050	36.035	170.708	66.267	132.118	43.561	418.060	115.576

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.003	-0.003	-0.001	-0.001	0.002	0.002	-0.014	0.079
S.D.	0.001	0.001	0.003	0.004	0.000	0.001	0.015	0.100
% R.S.D.	20.874	22.903	421.956	262.829	24.464	36.257	107.395	126.309

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.029	0.006	0.002	0.003	-0.006	0.001	-0.002	-0.011
S.D.	0.016	0.026	0.001	0.003	0.001	0.000	0.006	0.011
% R.S.D.	54.481	434.587	43.702	99.162	22.452	28.977	355.461	103.249

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.004	0.002	0.010	0.003	0.001	0.003	-0.030
S.D.	0.001	0.008	0.001	0.012	0.001	0.001	0.002	0.017
% R.S.D.	27.390	200.907	54.559	113.998	29.522	82.793	51.185	57.026

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	-0.040	0.002	0.002	0.021
S.D.	0.001	0.037	0.001	0.000	0.034
% R.S.D.	86.579	92.729	76.867	30.234	165.619

Identity 1: ICS-A Identity 2: ICSA 1:33 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.000	0.001	0.043	0.026	100.911	0.008	-0.006	-0.000
S.D.	0.003	0.000	0.002	0.005	1.204	0.002	0.001	0.001
% R.S.D.	1328.364	36.187	4.560	18.631	1.193	20.659	20.283	261.846

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.013	0.001	0.006	99.588	9.449	-0.001	-0.002	0.059
S.D.	0.000	0.002	0.002	1.114	0.112	0.001	0.004	0.166
% R.S.D.	3.274	326.461	40.245	1.119	1.186	97.870	204.786	280.670

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.020	0.003	0.001	0.010	0.113	9.550	-0.002	0.157
S.D.	0.025	0.038	0.001	0.013	0.006	0.098	0.001	0.012
% R.S.D.	123.894	1137.859	92.586	138.263	5.120	1.031	30.296	7.855

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.015	0.001	-0.025	0.002	-0.004	-0.005	-0.026
S.D.	0.001	0.005	0.001	0.010	0.001	0.001	0.001	0.057
% R.S.D.	51.101	36.437	140.942	40.717	50.408	17.816	16.672	218.879

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	0.042	-0.001	0.002	-0.042
S.D.	0.000	0.046	0.001	0.000	0.038
% R.S.D.	7.673	108.983	122.264	7.564	91.649

Identity 1: ICS-AB Identity 2: ICSAB 1:37 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.000	-0.000	0.000	0.033	101.695	0.006	-0.007	0.986
S.D.	0.000	0.000	0.003	0.002	0.433	0.001	0.000	0.003
% R.S.D.	53.744	73.571	1091.963	5.879	0.426	12.390	3.728	0.276

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.027	0.002	0.004	99.476	9.485	-0.003	-0.019	0.171
S.D.	0.001	0.002	0.001	0.427	0.028	0.001	0.011	0.021
% R.S.D.	3.495	122.757	35.835	0.430	0.291	41.587	59.838	12.509

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.016	0.022	0.001	0.018	0.122	9.650	-0.001	0.143
S.D.	0.003	0.008	0.000	0.005	0.009	0.034	0.004	0.002
% R.S.D.	20.424	36.720	12.889	30.333	7.297	0.351	390.581	1.194

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.001	-0.002	-0.005	0.002	-0.005	-0.005	-0.012
S.D.	0.001	0.003	0.001	0.004	0.000	0.000	0.001	0.006
% R.S.D.	28.269	617.944	49.789	83.501	6.896	9.527	13.865	53.294

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.029	-0.000	0.001	-0.013
S.D.	0.000	0.034	0.001	0.000	0.003
% R.S.D.	4.618	115.554	458.475	4.946	20.048

Identity 1: PREPBLKARL Identity 2: Dig Blk(0095),1-10ml 1:44 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	48.566	1.941	99.413	201.316	89.626	-5.310	1.089	2.389
S.D.	2.163	0.407	25.585	0.405	9.744	2.166	1.171	2.364
% R.S.D.	4.454	20.981	25.736	0.201	10.872	40.785	107.522	98.950

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	21.775	763.654	26.292	64.527	60.799	4.449	1.213	1566.070
S.D.	1.195	21.691	7.254	12.654	0.254	5.593	29.280	127.515
% R.S.D.	5.486	2.840	27.589	19.610	0.418	125.720	2414.772	8.142

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	170.913	367.874	11.896	-15.041	5.955	18.591	18.548	842.524
S.D.	26.915	28.057	0.624	17.068	9.712	0.588	10.342	8.127
% R.S.D.	15.748	7.627	5.245	113.474	163.094	3.164	55.759	0.965

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	1.970	15.370	19.727	2.353	14.076	1.500	2.384	2631914.486
S.D.	2.236	34.065	1.577	16.711	0.411	1.810	2.173	27011.742
% R.S.D.	113.493	221.630	7.992	710.174	2.920	120.667	91.148	1.026

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	10.754	155.043	8.178	2.353	402.274
S.D.	0.665	88.248	1.956	0.515	13.118
% R.S.D.	6.184	56.918	23.913	21.892	3.261

Identity 1: S94T000095_L Identity 2: .5079g in 250,1-10ml 1:49 PM November 8, 1994
Task name : TWC93
Sample Weight : 0.5079 Solution Volume : 2750.00
Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	78.642	6.820	152.476	490.852	36717.417	4.520	5.770	0.404
S.D.	6.877	1.092	20.436	3.583	107.816	4.356	1.232	3.951
% R.S.D.	8.744	16.016	13.403	0.730	0.294	96.371	21.347	977.984

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	102.063	2077.832	85.958	2144.484	326.572	7922.749	48.839	1889.544
S.D.	2.526	11.092	25.124	28.097	4.587	59.129	26.294	497.557
% R.S.D.	2.475	0.534	29.228	1.310	1.405	0.746	53.837	26.332

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	162.021	224.149	24.037	2425.536	2830.168	80.665	21.389	175939.004
S.D.	60.180	79.529	1.094	115.518	35.929	3.078	3.352	667.934
% R.S.D.	37.144	35.480	4.552	4.763	1.270	3.816	15.670	0.380

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	79.150	264.355	29.899	97.674	17.612	21.553	76.362	5354907.876
S.D.	2.037	45.759	2.421	25.258	1.723	3.801	8.652	21320.738
% R.S.D.	2.573	17.310	8.098	25.859	9.785	17.637	11.331	0.398

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	731.721	327.746	5.000	5.606	259.973
S.D.	4.327	63.388	1.809	1.363	75.169
% R.S.D.	0.591	19.341	36.177	24.318	28.914

Identity 1: S94T000095_DL Identity 2: .5787g in 250,1-10ml 1:54 PM November 8, 1994
Task name : TWC93
Sample Weight : 0.5787 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	84.120	6.902	74.194	482.943	35206.337	-6.996	12.218	-3.424
S.D.	1.178	0.267	37.410	11.391	274.002	6.520	2.128	2.550
% R.S.D.	1.400	3.865	50.422	2.359	0.778	93.196	17.416	74.466

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	42.750	1946.958	69.373	2077.210	319.498	7803.058	82.292	2246.871
S.D.	1.301	19.813	12.585	33.250	1.635	81.001	44.430	31.761
% R.S.D.	3.042	1.018	18.141	1.601	0.512	1.038	53.991	1.414

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	146.125	344.972	23.000	2111.594	2644.582	62.392	-18.626	170747.268
S.D.	22.411	52.495	0.375	65.964	22.031	0.281	14.073	1154.547
% R.S.D.	15.337	15.217	1.630	3.124	0.833	0.451	75.554	0.676

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	68.458	311.812	27.230	72.220	16.720	17.865	72.817	4273807.390
S.D.	7.717	15.314	2.456	11.815	0.613	1.185	2.427	23758.513
% R.S.D.	11.273	4.911	9.019	16.360	3.667	6.634	3.333	0.556

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	714.296	95.162	9.370	3.641	346.119
S.D.	6.956	76.254	1.160	0.988	32.055
% R.S.D.	0.974	80.131	12.381	27.131	9.261

Identity 1: PREPBLKARL Identity 2: Dig Blk(000097),1-10 2:00 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	2.043	1.525	34.133	155.927	8.590	6.324	0.976	2.188
S.D.	3.562	0.704	27.430	10.456	20.144	2.146	2.112	2.774
% R.S.D.	174.307	46.147	80.363	6.705	234.508	33.937	216.412	126.805

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	12.642	718.031	-3.028	37.257	58.913	3.181	0.990	-724.917
S.D.	0.261	17.426	11.192	5.071	0.535	3.873	22.842	313.913
% R.S.D.	2.068	2.427	369.662	13.611	0.908	121.743	2307.113	43.303

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	33.715	-209.455	2.117	27.390	-7.790	17.504	3.013	972.566
S.D.	56.770	67.288	1.460	5.590	4.269	0.331	11.072	0.001
% R.S.D.	168.383	32.125	68.962	20.408	54.796	1.893	367.476	0.000

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	1.094	22.912	-7.400	35.882	-1.092	1.173	2.829	2615339.953
S.D.	1.424	11.536	3.970	12.468	1.979	0.294	2.049	27514.741
% R.S.D.	130.128	50.348	53.656	34.748	181.311	25.025	72.418	1.052

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	9.115	-141.305	-5.026	0.815	-214.551
S.D.	0.240	84.384	1.087	0.194	70.213
% R.S.D.	2.633	59.718	21.626	23.790	32.725

Identity 1: S94T000097_L Identity 2: .4694g in 250,1-10ml 2:05 PM November 8, 1994
Task name : TWC93
Sample Weight : 0.4694 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	76.502	6.243	166.351	512.265	36749.478	-0.485	1.596	-4.662
S.D.	7.388	0.862	23.844	18.911	211.325	0.082	5.102	3.518
% R.S.D.	9.658	13.808	14.334	3.692	0.575	16.964	319.722	75.459

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	93.873	2709.985	89.259	3620.094	285.522	10478.447	225.540	1831.601
S.D.	1.025	31.795	12.442	27.008	3.015	63.462	70.523	645.156
% R.S.D.	1.092	1.173	13.939	0.746	1.056	0.606	31.268	35.224

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	179.583	88.974	25.373	3346.912	1850.862	72.904	41.389	191962.356
S.D.	85.481	128.350	2.226	130.130	28.082	1.784	8.318	994.676
% R.S.D.	47.600	144.255	8.772	3.888	1.517	2.447	20.097	0.518

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	83.466	294.670	10.461	137.284	12.753	27.546	73.713	5547574.653
S.D.	6.730	158.312	5.921	77.656	2.820	4.843	5.121	31474.189
% R.S.D.	8.064	53.725	56.596	56.566	22.116	17.583	6.947	0.567

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	1125.232	155.205	3.850	2.286	37.082
S.D.	5.179	97.763	5.795	1.892	79.967
% R.S.D.	0.460	62.990	150.534	82.754	215.648

Identity 1: S94T000097_DL Identity 2: .4446g in 250,1-10ml 2:09 PM November 8, 1994
Task name : TWC93
Sample Weight : 0.4446 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	51.391	6.362	166.080	730.727	35844.670	-6.953	5.490	0.455
S.D.	24.123	2.390	62.094	33.632	425.089	12.888	7.018	12.368
% R.S.D.	46.941	37.556	37.388	4.603	1.186	185.362	127.836	2715.407

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	171.925	8392.953	119.755	3498.056	325.280	10685.117	142.050	4064.392
S.D.	3.210	131.892	3.546	47.630	4.371	142.121	149.965	1256.410
% R.S.D.	1.867	1.571	2.961	1.362	1.344	1.330	105.572	30.913

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	165.998	667.317	41.858	2592.580	2112.166	71.122	-4.910	193712.914
S.D.	230.730	337.018	5.353	63.893	13.236	0.341	9.980	2959.121
% R.S.D.	138.995	50.503	12.789	2.464	0.627	0.479	203.249	1.528

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	80.737	315.350	35.782	307.143	28.554	29.612	59.879	8697402.054
S.D.	5.935	88.948	14.947	67.942	6.488	0.679	12.358	106050.330
% R.S.D.	7.351	28.206	41.774	22.121	22.723	2.294	20.639	1.219

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	1127.297	209.312	21.005	3.605	677.260
S.D.	16.391	92.517	10.300	0.528	463.262
% R.S.D.	1.454	44.201	49.036	14.657	68.402

Value 5.000 5.000 5.000 5.000 5.000 5.000 5.000

Identity 1: ICS-A Identity 2: ICSA 2:23 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	-0.000	0.000	0.023	103.753	0.006	-0.007	-0.001
S.D.	0.001	0.000	0.010	0.003	1.183	0.001	0.000	0.001
% R.S.D.	46.308	91.393	79326.404	12.122	1.140	12.226	5.528	49.534

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.029	0.001	0.007	101.747	9.631	0.000	0.004	-0.041
S.D.	0.000	0.001	0.000	1.020	0.097	0.000	0.006	0.070
% R.S.D.	0.815	65.728	2.271	1.002	1.008	68.644	131.617	169.714

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.003	-0.031	-0.000	0.017	0.118	9.822	-0.004	0.185
S.D.	0.013	0.022	0.000	0.013	0.003	0.096	0.003	0.008
% R.S.D.	396.021	72.208	100.237	76.513	2.673	0.975	76.569	4.222

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.034	-0.003	-0.009	0.001	-0.004	-0.010	0.702
S.D.	0.002	0.012	0.001	0.006	0.000	0.001	0.001	0.032
% R.S.D.	62.944	36.331	43.426	71.513	56.998	14.410	10.487	4.502

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.005	-0.001	0.001	-0.056
S.D.	0.000	0.021	0.001	0.000	0.035
% R.S.D.	9.118	430.743	82.827	15.948	62.958

Identity 1: ICS-AB Identity 2: ICSAB 2:26 PM November 8, 1994

Task name : TWC93

ample Weight : 1.0000 Solution Volume : 1.00

-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.001	0.000	-0.003	0.031	100.571	0.007	-0.005	0.974
S.D.	0.004	0.000	0.008	0.005	1.252	0.001	0.002	0.015
% R.S.D.	289.372	209.834	303.299	16.622	1.245	19.880	35.927	1.509

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.030	0.000	0.005	98.841	9.361	0.001	-0.004	0.205
S.D.	0.000	0.002	0.003	1.363	0.146	0.001	0.013	0.193
% R.S.D.	1.271	664.070	54.341	1.379	1.557	48.387	302.548	93.989

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.018	0.056	0.001	0.021	0.126	9.542	0.004	0.199
S.D.	0.037	0.048	0.001	0.004	0.005	0.134	0.002	0.015
% R.S.D.	200.722	85.240	115.019	19.726	4.234	1.408	60.875	7.475

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.003	-0.000	-0.031	0.003	-0.004	-0.009	0.663
S.D.	0.002	0.014	0.002	0.010	0.001	0.001	0.002	0.048
% R.S.D.	61.147	412.633	585.105	33.204	51.995	13.836	19.653	7.193

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.051	-0.001	0.001	0.014
S.D.	0.000	0.030	0.002	0.000	0.055
% R.S.D.	8.626	58.676	306.439	15.034	395.040

Identity 1: CCV-1 Identity 2: 36B48A 2:43 PM November 8, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.857	4.818	4.837	4.679	4.926	4.937	4.967	4.955
S.D.	0.052	0.059	0.039	0.044	0.056	0.052	0.050	0.053
% R.S.D.	1.077	1.234	0.814	0.946	1.137	1.044	1.013	1.070

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.258	4.926	4.869	4.969	4.587	4.938	4.946	9.497
S.D.	0.050	0.050	0.042	0.050	0.048	0.049	0.040	0.033
% R.S.D.	0.953	1.015	0.861	1.000	1.043	0.991	0.815	0.350

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.763	4.734	4.848	4.741	4.878	4.911	4.872	4.933
S.D.	0.046	0.047	0.059	0.072	0.086	0.054	0.049	0.049
% R.S.D.	0.962	1.000	1.221	1.516	1.754	1.099	1.008	0.996

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.900	5.321	4.631	4.884	4.752	4.956	4.853	5.288
S.D.	0.060	0.081	0.029	0.055	0.055	0.049	0.045	0.052
% R.S.D.	1.218	1.517	0.627	1.135	1.149	0.983	0.934	0.984

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	4.919	4.667	4.849	5.085	4.787
S.D.	0.050	0.061	0.052	0.058	0.014
% R.S.D.	1.009	1.309	1.073	1.142	0.297

Identity 1: CCB-1 Identity 2: 2% HNO3 2:47 PM November 8, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-074, REV. 0

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.003	0.002	0.014	0.006	-0.006	-0.000	0.000	0.001
S.D.	0.003	0.000	0.010	0.004	0.009	0.000	0.001	0.001
% R.S.D.	89.331	27.424	73.826	67.152	147.496	148.767	455.480	79.478

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.003	-0.001	0.004	0.007	0.003	0.002	-0.016	0.110
S.D.	0.000	0.001	0.003	0.001	0.000	0.001	0.008	0.162
% R.S.D.	10.077	97.424	63.463	8.751	13.740	58.690	49.746	147.044

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.063	0.021	0.002	-0.003	-0.012	0.002	0.006	0.003
S.D.	0.032	0.045	0.001	0.011	0.004	0.000	0.001	0.009
% R.S.D.	50.970	214.707	37.388	326.635	30.719	8.809	22.562	321.472

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.008	0.043	0.015	0.002	0.002	0.004	0.387
S.D.	0.001	0.012	0.005	0.009	0.001	0.000	0.002	0.060
% R.S.D.	20.669	151.368	12.013	59.669	39.973	19.001	50.149	15.615

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	0.021	0.001	0.002	0.021
S.D.	0.000	0.007	0.002	0.000	0.041
% R.S.D.	18.393	35.771	165.772	32.168	191.273

JK
11-08-94

SY-103 S94T000095
S94T000097

LABCORE Data Entry Template for Worklist# 128

Analyst: DK Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion Li only (SY103) rerun 1:10 WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.12	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.02	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<.11 Bw 11-4-94	<.11	N/A	ug/g
6	SAMPLE	S94T000037	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<63.5	63.5	ug/g
7	DUP	S94T000037	0	F	@ICP-F03 LI-F-01	SOLID	<63.5	<63.8	N/A	ug/g
8	SAMPLE	S94T000064	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<62.1	62.1	ug/g
9	DUP	S94T000064	0	F	@ICP-F03 LI-F-01	SOLID	<62.1	<61.6	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	1.01	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.15	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 128

D.K. Sato
Analyst Signature

11-04-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Identity 1: ICV Identity 2: 36B48A 1:51 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.028	4.993	4.950	4.663	5.053	5.013	5.177	5.121
S.D.	0.016	0.017	0.026	0.017	0.016	0.014	0.016	0.023
% R.S.D.	0.317	0.335	0.519	0.371	0.321	0.279	0.318	0.455

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.453	5.071	5.091	5.106	5.082	5.070	5.324	9.002
S.D.	0.018	0.016	0.013	0.013	0.017	0.018	0.045	0.038
% R.S.D.	0.328	0.306	0.256	0.254	0.336	0.360	0.842	0.427

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.880	4.930	5.036	5.151	5.105	5.032	4.973	5.058
S.D.	0.017	0.021	0.017	0.061	0.027	0.016	0.026	0.013
% R.S.D.	0.358	0.418	0.340	1.176	0.526	0.324	0.522	0.264

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.968	5.144	5.001	4.998	4.882	5.100	5.079	5.167
S.D.	0.016	0.016	0.013	0.035	0.016	0.015	0.023	0.016
% R.S.D.	0.314	0.315	0.267	0.696	0.334	0.303	0.453	0.312

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.087	4.787	5.024	5.223	4.849
S.D.	0.015	0.013	0.012	0.015	0.011
% R.S.D.	0.286	0.281	0.239	0.278	0.230

JK Lab
11-04-94
SY-103 S94T000037
S94T000064

E
Identity 1: ICB Identity 2: 2% HNO3 1:55 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.002	0.001	0.010	-0.001	-0.006	0.003	0.001	0.002
S.D.	0.001	0.000	0.006	0.002	0.003	0.001	0.001	0.001
% R.S.D.	59.542	26.387	65.218	187.912	44.937	24.510	110.573	38.803

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.059	-0.001	0.004	0.002	0.002	0.001	0.003	-0.034
S.D.	0.000	0.001	0.002	0.001	0.000	0.001	0.014	0.046
% R.S.D.	0.687	114.396	46.686	65.608	16.593	91.823	439.873	135.484

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.031	-0.008	0.001	0.006	0.005	0.003	0.002	0.026
S.D.	0.003	0.012	0.000	0.011	0.001	0.000	0.003	0.002
% R.S.D.	9.843	163.928	19.618	182.011	16.173	7.850	178.494	6.186

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	-0.016	0.002	0.006	0.001	0.002	0.004	-0.011
S.D.	0.001	0.017	0.001	0.009	0.000	0.000	0.000	0.030
% R.S.D.	21.341	105.188	24.176	140.129	34.844	15.573	6.684	270.416

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.000	-0.019	0.001	0.001	0.011
S.D.	0.000	0.006	0.001	0.000	0.012
% R.S.D.	372.372	33.343	70.330	25.204	110.987

E

Identity 1: ICS-A Identity 2: ICSA 2:00 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
n-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.001	-0.000	0.042	0.023	104.970	0.005	-0.008	-0.001
S.D.	0.001	0.000	0.016	0.003	0.839	0.001	0.001	0.001
% R.S.D.	102.472	97.928	36.730	14.908	0.799	15.588	8.571	59.864

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.201	-0.000	0.014	103.728	10.436	-0.001	0.009	0.102
S.D.	0.000	0.001	0.002	0.889	0.090	0.002	0.013	0.078
% R.S.D.	0.113	158.307	13.079	0.857	0.860	114.872	144.209	75.778

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.098	0.024	0.001	0.033	0.047	9.974	-0.006	0.098
S.D.	0.017	0.020	0.000	0.007	0.007	0.063	0.003	0.007
% R.S.D.	17.226	85.635	58.630	20.515	15.250	0.636	54.183	7.259

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	-0.017	0.000	-0.026	0.001	-0.004	-0.006	0.009
S.D.	0.001	0.003	0.000	0.005	0.001	0.001	0.002	0.020
% R.S.D.	14.002	17.203	52.536	20.474	42.396	17.654	30.334	217.025

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.029	0.002	0.001	0.015
S.D.	0.000	0.021	0.001	0.000	0.012
% R.S.D.	10.364	73.481	62.956	14.315	80.016

E

Identity 1: ICS-AB Identity 2: ICSAB 2:04 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	-0.000	0.034	0.021	106.024	0.004	-0.006	1.025
S.D.	0.001	0.000	0.004	0.001	0.193	0.001	0.000	0.003
% R.S.D.	20.409	348.799	13.069	5.739	0.182	33.280	3.278	0.298

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.201	-0.002	0.009	105.556	10.726	0.001	0.017	-0.023
S.D.	0.000	0.002	0.001	0.133	0.016	0.001	0.010	0.031
% R.S.D.	0.044	74.164	12.684	0.126	0.149	128.420	59.316	138.063

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.060	-0.017	-0.000	0.010	0.050	10.056	-0.001	0.100
S.D.	0.006	0.009	0.000	0.004	0.005	0.033	0.004	0.004
% R.S.D.	10.772	52.353	245.687	44.633	10.571	0.326	439.236	4.323

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.006	-0.001	-0.018	-0.000	-0.005	-0.007	-0.005
S.D.	0.000	0.006	0.000	0.002	0.000	0.001	0.001	0.024
% R.S.D.	14.434	99.903	79.801	13.556	194.080	20.370	10.788	433.013

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	0.013	-0.001	0.001	-0.026
S.D.	0.000	0.032	0.000	0.000	0.010
% R.S.D.	12.926	246.953	4.703	0.339	37.926

E
Identity 1: PREPBLKARL Identity 2: Dig Blank, 1-10ml 2:10 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	15.794	0.767	-62.271	98.633	1.720	3.519	-1.256	1.275
S.D.	0.399	0.255	3.598	3.300	6.930	3.595	0.456	1.060
% R.S.D.	2.527	33.208	5.778	3.346	402.891	102.144	36.300	83.179

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-552.980	1093.466	7.877	52.711	30.457	0.446	-6.012	-157.171
S.D.	0.413	14.222	1.528	6.397	0.684	2.170	15.979	54.639
% R.S.D.	0.075	1.301	19.394	12.135	2.245	486.489	265.782	34.764

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	136.193	-37.509	4.531	-5.469	-205.046	2.694	-3.833	763.889
S.D.	14.454	4.968	0.375	28.617	3.389	0.867	3.897	27.282
% R.S.D.	10.613	13.245	8.285	523.265	1.653	32.194	101.671	3.571

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	3.822	-34.265	2.788	-23.971	-0.273	-0.589	1.127	2615157.309
S.D.	0.208	4.554	0.350	31.015	0.683	1.759	4.123	10100.396
% R.S.D.	5.455	13.290	12.543	129.382	249.992	298.674	365.928	0.386

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	9.472	-98.408	3.210	0.610	-2.003
S.D.	0.427	36.105	1.628	0.176	11.096
% R.S.D.	4.510	36.689	50.698	28.895	553.911

E

Identity 1: S94T000037_L Identity 2: .4334g in 250,1-10ml 2:15 PM November 4, 1994

Task name : TWC93

Sample Weight : 0.4334 Solution Volume : 2750.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	1.358	5.890	125.082	346.421	17834.947	5.512	13.765	25.779
S.D.	7.372	1.171	26.800	9.751	71.466	4.846	3.926	3.058
% R.S.D.	543.065	19.889	21.426	2.815	0.401	87.908	28.523	11.861

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1286.591	662.371	3.969	98.891	115.304	58.647	56.403	-292.370
S.D.	2.274	8.315	3.512	11.195	1.255	7.364	66.580	445.703
% R.S.D.	0.177	1.255	88.496	11.320	1.088	12.557	118.043	152.445

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	536.411	-48.960	8.427	4127.065	69.473	-8.928	38.023	220199.175
S.D.	72.964	121.016	2.359	32.523	36.466	1.856	25.464	464.994
% R.S.D.	13.602	247.170	27.989	0.788	52.490	20.791	66.968	0.211

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	68.792	59.056	4.764	37.534	-1.454	2.647	38.218	6079747.225
S.D.	4.365	25.723	4.463	17.855	2.548	1.338	9.558	10339.798
% R.S.D.	6.345	43.557	93.673	47.571	175.260	50.524	25.010	0.170

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	12.070	-23.762	1.162	2.857	-2.311
S.D.	1.675	78.832	3.052	0.454	110.209
% R.S.D.	13.881	331.756	262.543	15.898	4768.549

E

Identity 1: S94T000037_DL Identity 2: .4307g in 250,1-10ml 2:20 PM November 4, 1994
Task name : TWC93
Sample Weight : 0.4307 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	61.702	6.867	167.616	479.217	18384.972	18.993	26.204	34.121
S.D.	136.990	13.922	499.298	253.733	362.022	32.754	68.476	55.157
% R.S.D.	222.018	202.736	297.881	52.948	1.969	172.459	261.317	161.650

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1233.458	672.394	52.583	826.469	147.587	65.179	201.142	3298.349
S.D.	5.120	43.180	94.640	395.547	34.348	47.692	546.434	7555.963
% R.S.D.	0.415	6.422	179.980	47.860	23.273	73.171	271.666	229.083

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	715.143	798.061	24.718	4074.330	72.410	63.754	65.696	217461.209
S.D.	1227.724	1831.242	33.585	112.488	67.844	36.434	107.340	7650.730
% R.S.D.	171.675	229.461	135.870	2.761	93.695	57.148	163.388	3.518

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	76.969	99.268	40.235	108.521	23.446	7.298	43.625	5987927.269
S.D.	31.373	433.457	85.695	177.857	47.285	16.030	46.763	192492.275
% R.S.D.	40.761	436.655	212.988	163.892	201.677	219.659	107.192	3.215

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	13.851	137.408	28.593	2.969	1169.282
S.D.	4.689	370.638	65.748	5.778	2278.031
% R.S.D.	33.855	269.735	229.944	194.584	194.823

Identity 1: S94T000064_L Identity 2: .4427g in 250,1-10ml 2:26 PM November 4, 1994
Task name : TWC93
Sample Weight : 0.4427 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-11.777	1.163	-13.062	453.333	30405.369	-16.232	3.969	3.102
S.D.	9.891	0.571	28.847	6.317	48.980	0.052	4.493	4.664
% R.S.D.	83.986	49.122	220.840	1.393	0.161	0.321	113.207	150.369

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1245.652	959.201	7.666	105.339	150.339	34.609	-15.201	-796.811
S.D.	0.859	6.501	15.664	12.900	1.545	9.029	10.893	391.612
% R.S.D.	0.069	0.678	204.322	12.247	1.027	26.090	71.659	49.147

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	247.933	-218.549	8.758	2229.277	381.258	3.027	0.352	164895.628
S.D.	48.890	114.255	1.569	41.228	19.391	1.524	27.703	439.745
% R.S.D.	19.719	52.279	17.914	1.849	5.086	50.353	7881.239	0.267

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	90.110	-210.120	-3.415	-39.542	-3.586	3.453	71.156	6317394.866
S.D.	6.543	43.748	4.628	15.435	3.626	4.198	2.237	21381.117
% R.S.D.	7.261	20.820	135.516	39.034	101.120	121.571	3.144	0.338

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	17.588	-84.671	-4.210	-0.545	-102.254
S.D.	0.963	215.606	4.078	1.506	174.735
% R.S.D.	5.478	254.641	96.875	276.252	170.883

Identity 1: S94T000064_DL Identity 2: .4467g in 250,1-10ml 2:31 PM November 4, 1994
Task name : TWC93
Sample Weight : 0.4467 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.174	2.668	5.133	440.399	29451.049	2.632	10.719	6.583
S.D.	14.589	1.179	72.076	26.743	146.511	9.238	3.819	5.111
% R.S.D.	349.543	44.175	1404.286	6.072	0.497	351.032	35.624	77.638

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1053.565	910.546	19.647	72.178	119.700	26.511	38.709	-222.326
S.D.	3.665	7.279	21.537	12.766	2.435	10.252	52.196	793.422
% R.S.D.	0.348	0.799	109.617	17.686	2.035	38.671	134.841	356.873

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	238.932	-12.531	11.020	2150.387	382.502	-0.207	-1.128	160340.931
S.D.	125.377	184.654	2.594	43.755	33.730	4.342	9.082	1036.018
% R.S.D.	52.474	1473.526	23.541	2.035	8.818	2100.216	805.453	0.646

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	99.105	-39.908	0.079	-6.146	0.254	4.514	69.494	6244259.105
S.D.	1.867	54.031	9.644	42.299	3.698	1.710	13.894	41427.922
% R.S.D.	1.884	135.391	12228.464	688.270	1458.358	37.870	19.994	0.663

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	18.355	-138.366	-1.249	1.612	2.401
S.D.	0.916	23.303	5.830	0.440	255.628
% R.S.D.	4.990	16.841	466.921	27.283	10644.864

Identity 1: ICS-A Identity 2: ICSA 2:42 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	-0.000	0.013	0.017	103.933	0.005	-0.007	-0.001
S.D.	0.001	0.000	0.016	0.002	0.424	0.000	0.001	0.000
% R.S.D.	37.260	24.654	122.600	10.403	0.408	0.144	10.347	9.365

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.205	-0.000	0.004	102.787	10.324	-0.002	0.013	-0.038
S.D.	0.000	0.002	0.002	0.347	0.037	0.001	0.011	0.056
% R.S.D.	0.105	596.508	48.396	0.338	0.357	27.724	86.606	148.404

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.048	-0.025	-0.001	0.005	0.038	9.843	-0.000	0.158
S.D.	0.007	0.015	0.000	0.009	0.006	0.037	0.004	0.006
% R.S.D.	13.975	60.197	21.434	172.383	16.761	0.372	7359.290	3.571

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.007	-0.002	-0.019	-0.001	-0.004	-0.009	0.858
S.D.	0.000	0.006	0.000	0.009	0.000	0.000	0.000	0.065
% R.S.D.	4.124	88.411	6.163	49.226	42.849	8.664	2.695	7.592

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	-0.049	-0.002	0.000	-0.061
S.D.	0.000	0.026	0.001	0.000	0.018
% R.S.D.	13.006	52.194	58.627	35.977	29.155

Identity 1: ICS-AB Identity 2: ICSAB 2:46 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.001	-0.000	0.042	0.025	104.990	0.007	-0.005	1.012
S.D.	0.001	0.000	0.012	0.003	0.726	0.001	0.001	0.003
% R.S.D.	59.905	432.225	28.770	12.627	0.691	10.048	18.376	0.288

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.204	0.002	0.005	104.451	10.535	-0.000	0.025	0.120
S.D.	0.000	0.002	0.001	0.628	0.058	0.002	0.013	0.100
% R.S.D.	0.195	79.448	17.005	0.601	0.550	777.626	51.776	83.461

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.082	0.022	0.000	0.002	0.046	9.991	0.003	0.153
S.D.	0.015	0.023	0.000	0.007	0.005	0.048	0.002	0.008
% R.S.D.	17.702	106.572	203.769	297.444	11.272	0.485	62.227	5.313

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.021	-0.000	-0.020	0.000	-0.004	-0.010	0.603
S.D.	0.001	0.006	0.001	0.009	0.000	0.000	0.001	0.039
% R.S.D.	30.969	27.648	852.178	46.370	138.035	3.980	8.719	6.388

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.081	-0.001	0.001	0.025
S.D.	0.000	0.009	0.001	0.000	0.022
% R.S.D.	7.431	10.544	159.120	18.200	85.744

Identity 1: CCV-1 Identity 2: 36B48A 2:55 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.062	5.036	4.957	4.674	5.099	5.025	5.201	5.147
S.D.	0.042	0.048	0.035	0.035	0.043	0.043	0.047	0.045
% R.S.D.	0.836	0.957	0.708	0.755	0.844	0.860	0.895	0.877

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.332	5.071	5.133	5.170	5.118	5.083	5.402	9.176
S.D.	0.039	0.047	0.050	0.043	0.049	0.039	0.046	0.075
% R.S.D.	0.731	0.929	0.979	0.835	0.954	0.775	0.854	0.817

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.937	4.995	5.088	4.825	4.957	5.039	4.953	5.092
S.D.	0.038	0.043	0.049	0.114	0.079	0.042	0.043	0.036
% R.S.D.	0.774	0.868	0.966	2.372	1.602	0.835	0.865	0.715

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.974	5.171	4.714	5.001	4.918	5.099	5.079	5.639
S.D.	0.046	0.041	0.082	0.035	0.043	0.037	0.042	0.026
% R.S.D.	0.918	0.784	1.737	0.708	0.877	0.735	0.821	0.468

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.103	4.788	5.045	5.228	4.914
S.D.	0.043	0.040	0.044	0.046	0.018
% R.S.D.	0.852	0.831	0.864	0.887	0.362

Identity 1: CCB-1 Identity 2: 2% HNO3 2:59 PM November 4, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	0.001	-0.056	-0.002	0.029	0.001	0.001	0.002
S.D.	0.001	0.000	0.016	0.001	0.008	0.000	0.001	0.001
% R.S.D.	109.367	21.987	29.000	79.898	28.480	0.654	49.754	25.546

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.055	-0.004	0.004	0.025	0.004	0.004	0.009	-0.093
S.D.	0.008	0.001	0.002	0.006	0.001	0.001	0.002	0.066
% R.S.D.	14.191	34.675	52.533	25.234	16.594	32.230	26.186	71.667

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.138	-0.025	0.000	-0.009	0.000	0.005	0.003	0.022
S.D.	0.014	0.015	0.000	0.013	0.003	0.001	0.001	0.006
% R.S.D.	10.162	60.323	97.791	140.798	702.642	14.236	40.283	27.152

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.005	-0.023	0.040	0.006	0.001	0.002	0.003	0.254
S.D.	0.001	0.018	0.011	0.005	0.001	0.000	0.001	0.024
% R.S.D.	17.935	78.524	27.877	74.951	131.670	8.363	19.760	9.462

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	0.050	0.001	0.001	-0.025
S.D.	0.000	0.030	0.001	0.000	0.021
% R.S.D.	41.463	61.181	71.953	5.482	86.949

JK Lato
11-04-94
SY-103 S94T000037
S94T000064

LABCORE Data Entry Template for Worklist# 129

Analyst: JK Soto **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion Li only (SY103) rerun 1:10 **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.031	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.978	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.11	N/A	ug/g
6	SAMPLE	S94T000067	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<60.4	60.4	ug/g
7	DUP	S94T000067	0	F	@ICP-F03 LI-F-01	SOLID	<60.4	<58.0	N/A	ug/g
8	SAMPLE	S94T000068	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<57.5	57.5	ug/g
9	DUP	S94T000068	0	F	@ICP-F03 LI-F-01	SOLID	<57.5	<57.9	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	1.002	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.145	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 129

J.K. Soto
Analyst Signature

11-07-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Identity 1: ICV Identity 2: Quality Control 10:17 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.931	4.905	4.923	4.734	5.037	5.049	5.055	5.031
S.D.	0.003	0.006	0.006	0.012	0.025	0.003	0.006	0.013
% R.S.D.	0.064	0.132	0.121	0.244	0.487	0.054	0.123	0.251

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.450	5.020	4.903	5.001	4.937	5.020	4.962	9.360
S.D.	0.005	0.010	0.009	0.007	0.007	0.007	0.019	0.052
% R.S.D.	0.100	0.195	0.194	0.143	0.133	0.142	0.382	0.554

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.914	4.860	4.921	5.124	5.101	5.026	4.977	5.014
S.D.	0.014	0.004	0.007	0.073	0.033	0.004	0.024	0.019
% R.S.D.	0.293	0.092	0.143	1.424	0.657	0.087	0.492	0.383

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.000	5.436	4.897	4.996	4.826	5.073	4.919	4.950
S.D.	0.010	0.028	0.004	0.008	0.005	0.004	0.010	0.004
% R.S.D.	0.196	0.519	0.089	0.152	0.109	0.083	0.212	0.088

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.011	4.683	4.930	5.190	4.825
S.D.	0.006	0.019	0.004	0.008	0.012
% R.S.D.	0.113	0.414	0.083	0.160	0.246

DK Lato
11-07-94
SY-103 S94T000067
S94T000068

Identity 1: ICB Identity 2: Quality Control 10:22 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	0.001	-0.010	-0.010	-0.016	0.000	-0.000	0.001
S.D.	0.001	0.000	0.008	0.002	0.002	0.001	0.000	0.000
% R.S.D.	30.168	15.221	80.510	21.132	12.148	169.055	54.313	37.073

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.313	-0.000	-0.001	0.001	-0.007	-0.001	0.006	-0.081
S.D.	0.000	0.000	0.003	0.002	0.000	0.000	0.005	0.031
% R.S.D.	0.138	20098.246	279.536	378.318	1.352	35.150	81.403	38.136

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.002	-0.032	0.000	-0.016	-0.100	-0.008	-0.003	-0.073
S.D.	0.014	0.010	0.000	0.006	0.001	0.000	0.002	0.003
% R.S.D.	686.556	30.711	52.326	38.209	1.343	2.046	65.141	4.745

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.016	0.000	0.006	0.000	0.000	0.003	-0.082
S.D.	0.001	0.003	0.000	0.009	0.000	0.000	0.001	0.017
% R.S.D.	50.663	19.296	189.286	157.092	230.596	44.732	21.990	20.785

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	-0.063	-0.000	0.001	-0.034
S.D.	0.000	0.024	0.000	0.000	0.013
% R.S.D.	48.167	37.961	39.180	14.837	37.446

Identity 1: ICS-A Identity 2: ICSA 10:25 AM November 5, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	0.001	0.021	0.017	100.958	0.008	-0.004	0.002
S.D.	0.001	0.000	0.007	0.002	1.254	0.001	0.000	0.001
% R.S.D.	48.701	34.350	35.500	12.158	1.242	10.059	7.933	45.017

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.302	0.005	0.001	99.408	9.919	0.002	0.041	-0.013
S.D.	0.000	0.001	0.001	1.136	0.110	0.002	0.006	0.099
% R.S.D.	0.058	22.304	146.587	1.142	1.112	93.540	14.357	744.652

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.022	-0.019	0.000	-0.016	0.021	9.645	0.004	0.117
S.D.	0.015	0.026	0.001	0.002	0.004	0.105	0.002	0.003
% R.S.D.	66.400	137.450	181.069	13.526	19.746	1.094	53.511	2.542

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.042	-0.002	-0.003	0.000	-0.003	-0.006	-0.083
S.D.	0.002	0.017	0.001	0.005	0.001	0.000	0.001	0.009
% R.S.D.	85.448	39.546	38.845	197.706	210.349	16.142	14.400	10.959

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.000	-0.002	0.002	-0.084
S.D.	0.000	0.004	0.001	0.000	0.017
% R.S.D.	19.298	2036.251	49.779	8.686	20.834

Identity 1: ICS-AB Identity 2: ICSAB 10:29 AM November 5, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.006	0.001	0.001	0.011	101.479	0.006	-0.005	0.978
S.D.	0.001	0.000	0.009	0.002	0.752	0.002	0.000	0.005
% R.S.D.	11.484	14.918	634.291	13.597	0.742	24.592	2.931	0.470

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.300	0.003	0.004	100.070	10.001	0.001	0.028	-0.214
S.D.	0.000	0.000	0.002	0.829	0.071	0.000	0.015	0.030
% R.S.D.	0.062	15.573	54.044	0.828	0.715	31.408	52.180	13.908

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.007	-0.065	-0.001	0.003	0.031	9.733	0.007	0.099
S.D.	0.001	0.009	0.000	0.008	0.004	0.055	0.002	0.002
% R.S.D.	7.593	13.427	31.382	302.968	13.407	0.561	28.039	1.750

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.035	-0.003	0.006	-0.000	-0.003	-0.003	-0.083
S.D.	0.001	0.007	0.000	0.002	0.000	0.000	0.001	0.026
% R.S.D.	43.570	21.269	13.627	32.386	88.529	5.190	20.661	31.492

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.013	-0.003	0.001	-0.149
S.D.	0.000	0.033	0.000	0.000	0.006
% R.S.D.	4.090	257.463	11.345	5.926	4.000

Identity 1: PREPBLKARL Identity 2: Dig blank, 1-10ml 10:35 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	19.448	1.789	4.456	135.732	24.983	-0.201	-1.140	0.210
S.D.	4.725	0.462	18.084	13.399	9.738	0.031	1.896	2.642
% R.S.D.	24.297	25.806	405.844	9.872	38.979	15.528	166.297	1258.036

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-820.831	2198.226	-6.382	51.410	26.801	4.679	44.509	22.252
S.D.	0.756	14.931	0.098	3.980	0.367	1.881	34.559	246.638
% R.S.D.	0.092	0.679	1.530	7.742	1.370	40.213	77.645	1108.390

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	59.466	-2.332	6.455	-54.384	-239.908	-11.812	-3.015	804.958
S.D.	50.193	70.843	1.210	22.261	2.232	0.656	5.310	23.711
% R.S.D.	84.407	3038.413	18.750	40.934	0.930	5.550	176.125	2.946

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.146	38.412	-1.583	13.163	1.853	-0.696	14.637	2644852.788
S.D.	2.083	9.649	2.701	11.196	0.876	1.193	2.013	12488.960
% R.S.D.	1430.909	25.119	170.594	85.056	47.270	171.489	13.754	0.472

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	10.033	-53.365	-0.088	0.664	-114.783
S.D.	0.438	57.152	1.194	0.405	110.970
% R.S.D.	4.364	107.095	1349.837	61.013	96.678

Identity 1: S94T000067_L Identity 2: .4550g in 250,1-10ml 10:40 AM November 5, 1994
Task name : TWC93
Sample Weight : 0.4550 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	71.914	7.680	-22.048	521.383	36974.714	10.910	15.326	12.005
S.D.	8.126	0.896	66.366	10.420	90.577	4.774	2.702	3.121
% R.S.D.	11.299	11.662	301.011	1.999	0.245	43.761	17.631	25.998

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1722.826	2992.545	22.001	1515.418	693.278	5715.944	8.156	-979.023
S.D.	1.541	37.279	18.253	16.199	2.934	11.333	66.417	428.474
% R.S.D.	0.089	1.246	82.966	1.069	0.423	0.198	814.373	43.765

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-45.786	-373.447	11.538	3236.885	1892.622	1.830	-6.117	174157.884
S.D.	88.111	107.615	1.574	102.597	40.974	1.278	17.539	355.134
% R.S.D.	192.438	28.817	13.645	3.170	2.165	69.836	286.713	0.204

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	77.441	308.581	-3.895	51.478	11.162	15.288	81.033	5874342.529
S.D.	4.996	31.647	2.444	24.098	1.441	0.751	12.255	16748.658
% R.S.D.	6.451	10.256	62.754	46.812	12.912	4.915	15.123	0.285

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	524.323	-257.667	-14.624	2.820	-590.338
S.D.	2.752	61.410	4.854	1.072	133.377
% R.S.D.	0.525	23.833	33.191	38.009	22.593

Identity 1: zzzz Identity 2: zzzz 10:44 AM November 5, 1994
Task name : TWC93
Sample Weight : 0.4550 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	123.856	9.021	-466.230	556.684	35600.805	10.514	16.040	18.921
S.D.	3.298	0.678	20.061	20.367	176.338	9.537	2.168	2.225
% R.S.D.	2.663	7.512	4.303	3.659	0.495	90.703	13.519	11.760

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1823.926	3419.907	25.034	1295.946	299.684	4870.884	203.664	1730.411
S.D.	2.147	13.176	3.584	14.443	1.184	34.566	42.882	296.254
% R.S.D.	0.118	0.385	14.318	1.115	0.395	0.710	21.055	17.120

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-2880.187	228.717	20.657	2482.107	1662.789	-7.169	-2.713	167057.251
S.D.	64.907	56.979	1.408	27.004	28.552	0.622	6.253	491.190
% R.S.D.	2.254	24.912	6.815	1.088	1.717	8.673	230.476	0.294

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	77.921	185.682	21.371	103.325	47.572	15.579	88.844	5257790.461
S.D.	3.538	105.692	2.159	58.953	3.643	2.336	8.320	11690.570
% R.S.D.	4.541	56.921	10.103	57.056	7.657	14.994	9.364	0.222

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	447.463	-101.653	12.871	3.558	181.672
S.D.	0.554	61.174	3.216	0.756	73.959
% R.S.D.	0.124	60.180	24.987	21.233	40.710

Identity 1: S94T000067_DL Identity 2: .4741g in 250,1-10ml 10:49 AM November 5, 1994

Task name : TWC93

Sample Weight : 0.4741 Solution Volume : 2750.00

Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	77.838	6.989	99.735	465.762	34546.614	13.039	10.013	17.059
S.D.	1.636	0.328	25.915	8.198	214.941	4.601	1.106	4.273
% R.S.D.	2.102	4.687	25.983	1.760	0.622	35.285	11.043	25.047

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1746.677	3341.693	-7.722	1302.443	290.586	4711.496	115.544	-630.831
S.D.	0.947	23.301	5.803	20.412	0.774	23.760	77.814	78.965
% R.S.D.	0.054	0.697	75.140	1.567	0.266	0.504	67.345	12.518

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	118.055	-290.521	12.081	2631.477	1641.123	-4.168	-1.771	162134.637
S.D.	17.642	9.656	0.457	102.353	58.003	0.342	32.035	940.518
% R.S.D.	14.944	3.324	3.786	3.890	3.534	8.209	1808.921	0.580

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	75.856	145.569	-7.086	102.898	33.851	16.566	57.449	5039643.814
S.D.	2.877	57.999	1.837	50.455	1.219	4.235	8.680	21700.653
% R.S.D.	3.793	39.843	25.932	49.034	3.602	25.566	15.109	0.431

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	431.080	-184.811	-12.005	2.968	-552.999
S.D.	4.633	118.385	3.729	0.410	99.380
% R.S.D.	1.075	64.057	31.061	13.824	17.971

Identity 1: S94T000068_L Identity 2: .4784g in 250,1-10ml 10:53 AM November 5, 1994
Task name : TWC93
Sample Weight : 0.4784 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	66.962	5.437	149.047	489.618	31338.121	-13.324	4.001	6.150
S.D.	5.505	0.560	64.268	12.842	77.453	4.570	3.475	2.313
% R.S.D.	8.221	10.294	43.119	2.623	0.247	34.302	86.856	37.602

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1682.382	3740.978	13.254	1753.456	264.509	6427.499	-3.416	-1141.106
S.D.	0.552	5.499	11.970	22.312	1.329	16.778	30.065	155.479
% R.S.D.	0.033	0.147	90.314	1.272	0.502	0.261	880.095	13.625

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	77.796	-524.283	9.621	3328.832	1888.246	1.932	3.745	167962.889
S.D.	33.106	58.471	0.974	94.914	10.815	0.590	12.157	407.872
% R.S.D.	42.555	11.152	10.120	2.851	0.573	30.557	324.596	0.243

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	75.935	12.873	-20.133	108.305	-5.691	16.746	55.918	5462432.668
S.D.	1.845	63.263	3.068	14.857	2.331	1.549	6.928	8310.919
% R.S.D.	2.430	491.428	15.239	13.718	40.960	9.249	12.389	0.152

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	598.106	-124.465	-15.129	-0.107	-794.880
S.D.	1.396	20.737	10.015	0.402	84.730
% R.S.D.	0.233	16.661	66.197	376.697	10.659

Identity 1: S94T000068_DL Identity 2: .4747g in 250,1-10ml 10:58 AM November 5, 1994

Task name : TWC93

Sample Weight : 0.4747 Solution Volume : 2750.00

Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	121.723	6.397	106.211	730.513	32556.273	-0.372	5.605	8.626
S.D.	1.073	0.652	13.419	14.696	72.508	7.938	1.619	3.042
% R.S.D.	0.881	10.187	12.634	2.012	0.223	2134.747	28.893	35.261

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-1704.207	3084.752	41.075	1861.099	306.562	6824.805	38.765	715.208
S.D.	1.305	10.887	12.021	11.511	0.773	14.753	32.057	96.783
% R.S.D.	0.077	0.353	29.265	0.619	0.252	0.216	82.697	13.532

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	21.109	-14.983	20.007	3136.059	2085.575	1.795	33.057	180651.833
S.D.	36.201	43.447	1.427	95.657	54.413	0.686	6.835	704.351
% R.S.D.	171.497	289.983	7.134	3.050	2.609	38.226	20.678	0.390

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	67.326	148.998	3.037	210.108	26.649	19.165	61.297	5483249.196
S.D.	6.609	11.984	2.904	47.263	2.320	3.455	2.295	14449.127
% R.S.D.	9.816	8.043	95.602	22.494	8.707	18.026	3.744	0.264

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	629.024	96.098	-10.534	0.764	1.367
S.D.	6.255	58.173	3.525	1.071	112.995
% R.S.D.	0.994	60.535	33.458	140.135	8264.241

Identity 1: ICS-A Identity 2: ICSA 11:12 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	0.000	0.031	0.018	103.579	0.007	-0.005	0.001
S.D.	0.000	0.000	0.009	0.001	0.428	0.001	0.000	0.001
% R.S.D.	34.164	37.541	28.868	3.995	0.413	10.777	3.729	71.204

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.301	0.002	0.002	100.971	10.096	-0.002	0.010	0.075
S.D.	0.000	0.001	0.000	0.236	0.023	0.001	0.015	0.041
% R.S.D.	0.089	49.530	1.185	0.233	0.228	39.560	141.085	54.899

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.024	0.005	0.000	-0.006	0.024	9.848	-0.001	0.125
S.D.	0.002	0.004	0.000	0.015	0.005	0.024	0.007	0.008
% R.S.D.	9.925	72.584	36.334	251.844	22.598	0.244	477.985	5.992

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.009	-0.003	-0.018	0.001	-0.004	-0.008	0.586
S.D.	0.001	0.008	0.000	0.003	0.000	0.000	0.001	0.060
% R.S.D.	115.301	92.047	16.138	17.572	50.257	6.545	18.123	10.257

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.066	-0.002	0.001	-0.042
S.D.	0.000	0.025	0.000	0.000	0.006
% R.S.D.	7.801	38.055	18.457	20.237	15.291

Identity 1: ICS-AB Identity 2: ICSAB 11:15 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	-0.000	0.007	0.015	104.594	0.006	-0.006	1.002
S.D.	0.001	0.000	0.004	0.002	0.677	0.001	0.001	0.005
% R.S.D.	15.958	57.749	54.908	16.931	0.647	13.276	10.219	0.499

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.301	0.000	0.003	103.014	10.310	-0.001	-0.012	-0.102
S.D.	0.000	0.001	0.001	0.544	0.066	0.001	0.009	0.072
% R.S.D.	0.009	793.862	18.223	0.528	0.638	88.265	79.650	70.557

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.022	-0.031	-0.001	-0.004	0.043	10.026	0.003	0.110
S.D.	0.010	0.012	0.000	0.008	0.003	0.057	0.003	0.005
% R.S.D.	44.579	37.975	31.585	195.984	7.758	0.569	100.856	4.166

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.010	-0.004	-0.014	0.000	-0.005	-0.010	0.389
S.D.	0.000	0.010	0.000	0.007	0.000	0.001	0.000	0.017
% R.S.D.	12.830	107.442	10.092	49.251	1793.178	17.172	4.758	4.429

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.029	-0.002	0.001	-0.088
S.D.	0.000	0.014	0.000	0.000	0.009
% R.S.D.	13.405	47.495	20.973	9.178	10.335

Identity 1: CCV-1 Identity 2: 36B48A 11:19 AM November 5, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.110	5.082	5.073	4.886	5.193	5.242	5.204	5.145
S.D.	0.027	0.035	0.025	0.022	0.019	0.024	0.033	0.035
% R.S.D.	0.520	0.679	0.487	0.444	0.357	0.456	0.627	0.683

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.624	5.220	5.077	5.253	5.111	5.212	5.099	9.810
S.D.	0.032	0.022	0.030	0.050	0.036	0.028	0.035	0.058
% R.S.D.	0.570	0.422	0.589	0.953	0.697	0.533	0.691	0.595

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.098	5.121	5.095	5.125	5.238	5.206	5.133	5.145
S.D.	0.004	0.022	0.034	0.009	0.028	0.029	0.027	0.020
% R.S.D.	0.082	0.424	0.677	0.179	0.541	0.563	0.521	0.395

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.184	5.609	4.910	5.139	4.996	5.277	5.058	5.526
S.D.	0.032	0.060	0.026	0.023	0.030	0.027	0.033	0.021
% R.S.D.	0.623	1.073	0.525	0.455	0.595	0.519	0.645	0.371

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.195	4.792	5.104	5.400	5.004
S.D.	0.029	0.027	0.035	0.033	0.017
% R.S.D.	0.558	0.563	0.685	0.616	0.349

Identity 1: zzzz Identity 2: zzzz 11:23 AM November 5, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.002	0.001	0.019	-0.011	-0.003	0.000	0.001	0.002
S.D.	0.001	0.000	0.006	0.002	0.004	0.001	0.000	0.001
% R.S.D.	68.449	18.773	30.826	17.520	117.069	166.189	30.833	50.152

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.311	0.002	-0.005	0.018	-0.006	-0.000	0.014	-0.124
S.D.	0.001	0.002	0.002	0.003	0.001	0.000	0.008	0.059
% R.S.D.	0.186	94.646	32.228	15.676	8.664	18.502	57.171	47.467

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.039	-0.038	0.001	-0.014	-0.096	-0.005	-0.002	-0.039
S.D.	0.006	0.010	0.000	0.009	0.002	0.000	0.004	0.008
% R.S.D.	16.492	26.947	80.750	63.098	2.353	8.489	241.571	19.358

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.020	0.007	0.004	0.000	0.001	0.005	0.225
S.D.	0.001	0.013	0.002	0.004	0.001	0.000	0.001	0.025
% R.S.D.	80.208	66.849	21.124	104.898	4310.337	42.433	28.082	11.204

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.000	-0.016	-0.001	0.001	-0.042
S.D.	0.000	0.013	0.001	0.001	0.026
% R.S.D.	43.905	78.877	173.390	38.375	61.387

Identity 1: CCB-1 Identity 2: 2% HNO3 11:25 AM November 5, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.004	0.000	-0.029	-0.017	-0.019	0.001	-0.001	0.000
S.D.	0.002	0.000	0.007	0.003	0.005	0.001	0.001	0.000
% R.S.D.	41.311	44.985	24.407	14.917	26.581	82.179	93.440	155.628

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.314	-0.001	-0.000	0.011	-0.007	-0.001	-0.003	-0.261
S.D.	0.000	0.000	0.003	0.003	0.000	0.001	0.014	0.094
% R.S.D.	0.052	33.232	616.956	25.414	0.000	76.166	470.836	35.792

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.037	-0.063	-0.001	-0.023	-0.095	-0.007	-0.005	-0.053
S.D.	0.014	0.033	0.000	0.001	0.001	0.000	0.006	0.011
% R.S.D.	37.813	52.088	47.269	4.956	1.084	0.854	120.602	20.409

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.019	0.013	-0.001	-0.002	-0.002	0.003	0.183
S.D.	0.000	0.009	0.000	0.003	0.001	0.001	0.000	0.016
% R.S.D.	74.231	49.688	3.269	359.472	31.297	60.326	16.428	8.517

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	-0.013	-0.002	-0.000	-0.100
S.D.	0.000	0.011	0.000	0.000	0.035
% R.S.D.	7.582	87.536	12.125	199.437	34.907

DK Lafe
11-07-94
SY-103 S94T000067
S94T000068

LABCORE Data Entry Template for Worklist# 130

Analyst: D.K. Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion Li only (SY103) rerun 1:10 WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.057	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.987	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.11	N/A	ug/g
6	SAMPLE	S94T000119	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<64.1	64.1	ug/g
7	DUP	S94T000119	0	F	@ICP-F03 LI-F-01	SOLID	<64.1	<65.0	N/A	ug/g
8	SAMPLE	S94T000120	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<64.7	64.7	ug/g
9	DUP	S94T000120	0	F	@ICP-F03 LI-F-01	SOLID	<64.7	<65.4	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.995	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.996	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 130

D.K. Sato
Analyst Signature

11-09-94
Date

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Identity 1: ICV Identity 2: Quality Control 10:07 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-074, REV. 0

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.962	4.919	4.921	4.682	4.973	4.973	5.095	5.057
S.D.	0.072	0.078	0.056	0.060	0.073	0.066	0.070	0.079
% R.S.D.	1.448	1.591	1.139	1.275	1.465	1.334	1.368	1.560

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.213	5.004	4.994	5.022	4.706	5.001	5.193	9.070
S.D.	0.065	0.064	0.062	0.056	0.068	0.065	0.073	0.062
% R.S.D.	1.244	1.276	1.248	1.119	1.435	1.304	1.403	0.682

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.866	4.780	4.966	5.156	4.992	4.968	4.894	4.986
S.D.	0.056	0.058	0.079	0.047	0.055	0.071	0.065	0.061
% R.S.D.	1.152	1.216	1.593	0.905	1.096	1.421	1.333	1.221

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.947	5.287	5.059	4.960	4.841	5.025	5.008	5.072
S.D.	0.072	0.075	0.062	0.056	0.074	0.065	0.073	0.033
% R.S.D.	1.458	1.419	1.225	1.123	1.538	1.302	1.448	0.650

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.015	4.707	4.955	5.143	4.818
S.D.	0.068	0.080	0.071	0.079	0.010
% R.S.D.	1.359	1.704	1.429	1.542	0.202

DK Lato
11-09-94
SY-103 S94T000119
S94T000120

11-09-94

ZZZZ

Identity 1: ~~ICB~~ Identity 2: Quality Control 10:10 AM November 9, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.006	0.002	-0.006	-0.009	0.007	-0.000	0.002	0.001
S.D.	0.001	0.000	0.015	0.001	0.005	0.002	0.001	0.001
% R.S.D.	21.526	21.871	236.795	12.057	70.531	393.706	39.640	62.920

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.016	-0.002	-0.008	0.001	0.002	0.000	0.032	-0.430
S.D.	0.000	0.001	0.000	0.001	0.000	0.001	0.008	0.034
% R.S.D.	2.929	78.626	0.164	64.730	15.915	371.627	23.873	7.868

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.037	-0.126	-0.000	-0.001	0.015	0.002	0.007	0.014
S.D.	0.008	0.016	0.000	0.005	0.002	0.000	0.003	0.005
% R.S.D.	21.324	12.848	92.823	658.160	13.073	19.224	45.686	37.113

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.006	0.002	-0.001	-0.012	-0.001	0.003	0.006	-0.112
S.D.	0.000	0.017	0.001	0.004	0.001	0.000	0.001	0.010
% R.S.D.	3.032	805.995	71.968	34.051	145.718	11.220	23.376	9.037

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	-0.045	-0.003	0.002	-0.141
S.D.	0.000	0.016	0.001	0.000	0.010
% R.S.D.	41.866	35.086	20.965	16.484	7.018

Identity 1: ICB Identity 2: Quality Control 10:16 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	-0.001	0.004	-0.001	-0.036	-0.003	-0.004	-0.004
S.D.	0.002	0.000	0.006	0.005	0.008	0.001	0.000	0.001
% R.S.D.	69.154	37.410	143.321	425.155	23.063	25.377	7.814	19.389

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.015	-0.003	-0.002	-0.002	0.001	-0.004	-0.032	-0.212
S.D.	0.000	0.003	0.005	0.003	0.000	0.001	0.010	0.116
% R.S.D.	1.703	98.670	197.052	141.154	13.878	18.765	31.371	54.850

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.015	-0.081	-0.001	0.009	0.015	0.000	-0.009	-0.046
S.D.	0.016	0.028	0.001	0.008	0.005	0.000	0.001	0.011
% R.S.D.	109.289	35.168	93.486	96.493	30.314	30.847	14.186	23.514

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.000	-0.039	-0.001	-0.013	-0.001	-0.000	0.001	-0.065
S.D.	0.001	0.004	0.001	0.002	0.000	0.000	0.001	0.020
% R.S.D.	602.771	11.008	52.730	14.806	77.468	62.268	201.325	31.343

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.000	-0.073	-0.001	0.000	-0.088
S.D.	0.000	0.014	0.001	0.000	0.029
% R.S.D.	29.952	18.568	83.405	51.439	32.815

Identity 1: ICS-A Identity 2: ICSA 10:22 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.007	0.001	0.029	0.019	102.666	0.005	-0.003	0.001
S.D.	0.000	0.000	0.005	0.006	0.869	0.001	0.001	0.000
% R.S.D.	5.156	25.134	18.209	31.171	0.847	17.017	38.793	48.424

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.002	-0.001	0.003	101.156	9.714	-0.001	0.046	-0.330
S.D.	0.000	0.001	0.001	0.732	0.081	0.000	0.011	0.076
% R.S.D.	10.616	67.787	16.213	0.724	0.836	11.910	23.439	23.092

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.013	-0.116	-0.001	0.007	0.133	9.696	0.002	0.180
S.D.	0.009	0.021	0.000	0.005	0.003	0.079	0.001	0.005
% R.S.D.	68.049	17.923	60.230	72.461	2.394	0.812	42.349	2.574

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.006	0.026	-0.003	-0.024	-0.001	-0.003	-0.007	-0.118
S.D.	0.002	0.007	0.001	0.002	0.000	0.001	0.000	0.024
% R.S.D.	27.209	26.124	44.967	6.295	37.859	31.567	4.105	20.294

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.047	-0.004	0.001	-0.123
S.D.	0.000	0.039	0.001	0.000	0.019
% R.S.D.	3.904	83.910	27.905	5.413	15.312

Identity 1: ICS-AB Identity 2: ICSAB 10:26 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.011	0.000	-0.000	0.017	101.308	0.006	-0.004	0.987
S.D.	0.003	0.000	0.017	0.004	1.276	0.001	0.001	0.013
% R.S.D.	27.041	207.097	8559.480	22.390	1.260	13.321	34.482	1.351

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.002	-0.000	-0.003	99.638	9.557	-0.003	0.035	-0.505
S.D.	0.000	0.006	0.001	1.427	0.144	0.001	0.012	0.142
% R.S.D.	11.719	1224.676	27.989	1.432	1.510	30.334	33.850	28.231

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.003	-0.160	-0.002	0.025	0.126	9.554	0.007	0.164
S.D.	0.028	0.043	0.001	0.008	0.008	0.132	0.003	0.009
% R.S.D.	805.133	26.989	32.818	32.117	6.192	1.385	47.727	5.313

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.005	-0.002	-0.006	-0.023	-0.002	-0.004	-0.011	-0.134
S.D.	0.001	0.006	0.001	0.009	0.001	0.001	0.001	0.035
% R.S.D.	13.200	339.127	25.503	37.223	33.856	14.803	7.804	26.308

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.043	-0.005	0.001	-0.178
S.D.	0.000	0.004	0.002	0.000	0.059
% R.S.D.	7.880	9.683	30.192	1.824	33.122

Identity 1: PREPBLKARL Identity 2: Dig Blk,119&120,1-10 10:32 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	9.503	1.291	23.759	163.065	103.573	-5.252	2.901	2.443
S.D.	4.441	0.547	30.332	9.411	24.732	2.211	1.372	1.118
% R.S.D.	46.733	42.381	127.665	5.772	23.879	42.099	47.308	45.776

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	64.818	2029.669	-5.878	95.439	53.395	-0.676	91.764	-614.474
S.D.	1.546	10.257	4.396	6.971	0.846	1.310	50.833	217.870
% R.S.D.	2.385	0.505	74.777	7.305	1.584	193.784	55.396	35.456

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-37.420	-189.223	4.210	16.393	44.799	21.146	11.718	1109.992
S.D.	41.711	57.997	0.896	13.303	8.919	0.759	6.413	39.342
% R.S.D.	111.465	30.650	21.273	81.150	19.909	3.587	54.727	3.544

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	9.780	-38.192	-3.205	-14.994	-1.236	0.897	4.146	3464506.823
S.D.	2.288	30.822	2.659	20.006	1.127	0.636	3.363	18397.533
% R.S.D.	23.392	80.703	82.937	133.431	91.223	70.938	81.116	0.531

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	11.185	-155.094	-9.363	-0.958	-188.291
S.D.	0.449	44.614	4.522	0.020	95.031
% R.S.D.	4.018	28.766	48.300	2.126	50.470

Identity 1: S94T000119_L Identity 2: .4292g in 250,1-10ml 10:37 AM November 9, 1994
Task name : TWC93
Sample Weight : 0.4292 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	26.584	4.305	3.495	383.256	44060.137	-15.359	7.318	29.678
S.D.	21.936	1.680	147.908	24.464	345.718	10.244	10.250	9.639
% R.S.D.	82.515	39.010	4231.612	6.383	0.785	66.697	140.060	32.479

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	27.398	7950.778	38.999	2914.717	396.663	9486.448	150.918	-2700.506
S.D.	1.851	73.048	13.794	43.911	5.537	87.655	60.082	1175.278
% R.S.D.	6.755	0.919	35.370	1.507	1.396	0.924	39.811	43.521

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-192.985	-996.721	11.822	4261.406	3374.951	76.352	-6.074	219696.286
S.D.	180.001	334.005	5.186	163.420	25.094	1.664	10.044	2102.431
% R.S.D.	93.272	33.510	43.865	3.835	0.744	2.180	165.381	0.957

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	107.849	101.594	-19.371	76.346	-11.230	30.012	78.336	8049516.168
S.D.	4.438	55.099	11.736	35.192	6.625	3.802	4.796	75607.758
% R.S.D.	4.115	54.234	60.589	46.096	58.994	12.667	6.122	0.939

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	861.381	-263.804	-28.994	1.846	-1336.768
S.D.	7.075	177.681	6.323	1.018	291.925
% R.S.D.	0.821	67.353	21.807	55.146	21.838

Identity 1: S94T000119_DL Identity 2: .4233g in 250,1-10ml 10:41 AM November 9, 1994
Task name : TWC93
Sample Weight : 0.4233 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	92.317	7.349	-85.320	503.026	45230.910	-6.507	14.034	24.064
S.D.	13.298	0.981	47.434	23.087	266.393	5.371	6.423	6.554
% R.S.D.	14.405	13.352	55.595	4.590	0.589	82.544	45.767	27.237

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	52.025	3440.460	65.418	2798.434	401.517	9790.246	174.504	864.010
S.D.	1.187	24.538	19.585	22.353	3.765	48.190	82.128	829.542
% R.S.D.	2.282	0.713	29.939	0.799	0.938	0.492	47.063	96.011

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	253.360	-138.157	26.449	3744.273	3520.838	67.507	-24.541	224495.654
S.D.	151.061	224.713	3.558	59.031	31.480	0.378	10.346	1951.307
% R.S.D.	59.623	162.651	13.450	1.577	0.894	0.560	42.159	0.869

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	99.299	250.931	18.080	16.778	2.347	26.641	86.312	7233479.843
S.D.	2.444	74.230	8.488	5.641	6.031	0.825	5.397	58918.537
% R.S.D.	2.461	29.582	46.944	33.620	256.995	3.098	6.253	0.815

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	907.796	-239.857	2.074	0.879	-58.157
S.D.	5.927	14.143	3.788	0.454	296.383
% R.S.D.	0.653	5.896	182.636	51.688	509.624

Identity 1: S94T000120_L Identity 2: .4251g in 250,1-10ml 10:45 AM November 9, 1994
Task name : TWC93
Sample Weight : 0.4251 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	172.747	9.895	111.221	685.812	43674.103	14.254	34.778	16.970
S.D.	5.802	0.980	67.763	8.616	303.328	5.174	3.511	5.096
% R.S.D.	3.359	9.909	60.926	1.256	0.695	36.302	10.096	30.029

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	904.262	7439.899	78.818	3082.218	416.492	10983.583	611.587	1677.660
S.D.	8.149	58.822	3.913	37.080	1.631	73.076	60.915	575.728
% R.S.D.	0.901	0.791	4.965	1.203	0.391	0.665	9.960	34.317

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	295.548	32.111	27.748	6525.416	3889.351	146.207	29.424	221593.253
S.D.	51.611	120.595	1.402	65.523	53.054	1.368	31.180	1871.254
% R.S.D.	17.463	375.552	5.053	1.004	1.364	0.936	105.968	0.844

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	99.405	393.102	20.834	49.846	9.123	39.492	74.819	7545232.448
S.D.	2.599	58.097	6.906	14.371	2.124	3.964	5.335	49063.316
% R.S.D.	2.615	14.779	33.146	28.830	23.279	10.038	7.131	0.650

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	1054.004	-363.135	-1.870	3.070	142.332
S.D.	4.818	106.793	0.435	1.995	190.515
% R.S.D.	0.457	29.409	23.251	64.988	133.853

Identity 1: S94T000120_DL Identity 2: .4203g in 250,1-10ml 10:50 AM November 9, 1994
Task name : TWC93
Sample Weight : 0.4203 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	34.748	2.387	202.824	421.162	43103.192	-12.694	3.452	-9.345
S.D.	4.020	0.652	61.504	13.613	120.740	5.289	0.764	2.186
% R.S.D.	11.568	27.303	30.324	3.232	0.280	41.661	22.139	23.393

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	122.435	3608.338	83.881	3118.312	390.101	11197.665	94.748	878.181
S.D.	0.144	18.851	17.871	33.890	0.849	23.367	108.166	187.759
% R.S.D.	0.118	0.522	21.306	1.087	0.218	0.209	114.162	21.380

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	7.817	-116.254	24.521	5423.552	3570.758	82.406	-9.704	221780.101
S.D.	79.188	88.903	1.959	82.065	41.358	0.397	9.348	239.603
% R.S.D.	1013.064	76.473	7.991	1.513	1.158	0.482	96.329	0.108

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	92.191	197.905	6.406	75.242	1.614	29.705	66.811	7622486.885
S.D.	5.598	68.369	3.538	35.352	1.756	0.838	10.893	11539.973
% R.S.D.	6.072	34.546	55.232	46.984	108.791	2.822	16.304	0.151

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	1062.492	-266.351	-4.878	-2.061	-164.536
S.D.	2.700	95.434	6.511	1.378	89.325
% R.S.D.	0.254	35.830	133.459	66.891	54.289

Identity 1: ICS-A Identity 2: ICSA 11:04 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.006	-0.001	0.023	0.026	106.220	0.004	-0.008	-0.003
S.D.	0.003	0.000	0.001	0.003	1.086	0.001	0.001	0.001
% R.S.D.	46.661	35.109	5.652	12.114	1.023	33.178	16.707	35.422

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.006	-0.002	0.001	105.654	10.088	-0.003	0.015	-0.149
S.D.	0.000	0.001	0.003	1.141	0.127	0.001	0.023	0.155
% R.S.D.	1.531	87.704	282.420	1.080	1.258	37.637	153.910	104.288

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.007	-0.063	-0.001	0.032	0.137	10.107	0.004	0.193
S.D.	0.026	0.036	0.001	0.003	0.009	0.111	0.003	0.008
% R.S.D.	353.017	56.225	67.319	9.898	6.637	1.094	79.909	4.155

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.003	-0.003	-0.030	-0.001	-0.004	-0.007	0.702
S.D.	0.001	0.009	0.002	0.009	0.001	0.000	0.001	0.042
% R.S.D.	32.921	260.088	44.156	28.147	117.187	8.964	11.601	6.028

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	-0.015	-0.003	0.000	-0.088
S.D.	0.000	0.014	0.002	0.000	0.037
% R.S.D.	7.726	92.831	61.376	34.171	41.502

Identity 1: ICS-AB Identity 2: ICSAB 11:08 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.004	-0.000	0.007	0.028	101.718	0.004	-0.006	0.995
S.D.	0.001	0.000	0.003	0.004	0.621	0.001	0.001	0.007
% R.S.D.	31.697	41.330	46.242	13.505	0.610	33.149	16.258	0.747

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.003	-0.002	0.006	100.524	9.665	-0.002	0.042	-0.005
S.D.	0.000	0.001	0.002	0.670	0.076	0.001	0.014	0.095
% R.S.D.	7.104	68.460	33.739	0.666	0.781	71.503	32.479	1941.592

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.011	-0.025	-0.000	0.020	0.135	9.614	-0.005	0.199
S.D.	0.017	0.023	0.000	0.005	0.004	0.067	0.004	0.008
% R.S.D.	153.551	94.632	119.845	23.869	2.846	0.693	70.157	4.029

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.005	-0.010	-0.002	-0.019	-0.000	-0.004	-0.010	0.693
S.D.	0.002	0.004	0.001	0.013	0.001	0.001	0.001	0.034
% R.S.D.	29.082	35.536	55.306	69.270	395.836	17.045	14.615	4.945

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	-0.005	-0.002	0.000	-0.043
S.D.	0.000	0.012	0.001	0.000	0.030
% R.S.D.	3.481	256.276	59.565	2.174	69.203

Identity 1: CCV-1 Identity 2: 36B48A 11:12 AM November 9, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.912	4.871	4.837	4.617	4.965	4.913	5.043	4.996
S.D.	0.013	0.015	0.024	0.009	0.014	0.012	0.015	0.012
% R.S.D.	0.255	0.298	0.488	0.197	0.286	0.244	0.305	0.242

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.160	4.938	4.955	5.032	4.662	4.955	5.148	8.801
S.D.	0.010	0.009	0.018	0.009	0.014	0.016	0.012	0.031
% R.S.D.	0.201	0.180	0.366	0.186	0.300	0.314	0.225	0.350

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.784	4.762	4.918	5.022	4.921	4.913	4.837	4.951
S.D.	0.014	0.004	0.015	0.073	0.027	0.012	0.011	0.006
% R.S.D.	0.291	0.077	0.304	1.446	0.555	0.246	0.230	0.127

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.884	5.234	4.716	4.924	4.786	4.970	4.954	5.422
S.D.	0.009	0.014	0.012	0.005	0.014	0.013	0.027	0.061
% R.S.D.	0.184	0.277	0.248	0.108	0.298	0.263	0.544	1.124

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	4.961	4.659	4.902	5.081	4.755
S.D.	0.016	0.016	0.011	0.013	0.028
% R.S.D.	0.327	0.348	0.233	0.252	0.588

11-09-94

ZZZZ

Identity 1: ~~CCB-1~~ Identity 2: 2% HNO3 11:19 AM November 9, 1994

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-074, REV. 0

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.001	0.001	-0.022	0.004	0.018	-0.001	0.002	0.001
S.D.	0.002	0.000	0.006	0.005	0.007	0.000	0.000	0.001
% R.S.D.	155.017	22.946	28.386	143.835	38.810	1.248	22.113	55.429

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.099	-0.001	-0.000	0.006	0.003	0.001	0.032	0.010
S.D.	0.001	0.001	0.001	0.001	0.000	0.000	0.020	0.133
% R.S.D.	0.530	295.421	184.148	15.587	5.033	49.655	62.926	1313.484

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.031	-0.002	0.001	0.024	0.038	0.003	0.007	0.053
S.D.	0.018	0.031	0.001	0.002	0.003	0.000	0.003	0.008
% R.S.D.	57.617	1267.169	76.934	10.473	7.810	5.351	41.194	14.975

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.003	0.029	-0.011	0.001	0.001	0.002	0.394
S.D.	0.001	0.018	0.003	0.003	0.001	0.001	0.001	0.026
% R.S.D.	27.933	684.414	8.838	31.870	121.303	84.975	43.041	6.600

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.000	-0.044	0.000	0.000	0.009
S.D.	0.000	0.021	0.000	0.000	0.049
% R.S.D.	246.719	48.598	243.406	50.315	561.019

Identity 1: CCB-1 Identity 2: 2% HNO3 11:29 AM November 9, 1994

WHC-SD-WM-DP-074, REV. 0

Task name : TWC93

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.009	0.000	-0.004	-0.012	-0.003	-0.002	-0.000	-0.001
S.D.	0.003	0.000	0.007	0.009	0.011	0.001	0.002	0.002
% R.S.D.	34.895	6904.134	165.285	74.112	403.246	43.134	482.476	291.287

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.115	-0.005	-0.004	0.002	0.003	-0.001	-0.009	-0.511
S.D.	0.002	0.001	0.003	0.004	0.000	0.000	0.019	0.245
% R.S.D.	1.395	27.917	73.429	185.296	5.471	9.019	221.888	47.935

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.023	-0.142	-0.002	0.007	0.029	0.003	-0.006	0.025
S.D.	0.044	0.063	0.001	0.006	0.003	0.000	0.004	0.021
% R.S.D.	187.548	44.761	50.571	88.293	10.126	6.346	70.831	85.128

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.031	-0.002	0.000	-0.003	0.001	0.001	0.174
S.D.	0.001	0.022	0.003	0.004	0.001	0.000	0.001	0.037
% R.S.D.	27.743	70.127	127.502	14703.298	45.196	25.816	170.375	20.933

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.001	-0.071	-0.005	-0.000	-0.155
S.D.	0.000	0.018	0.001	0.000	0.073
% R.S.D.	32.212	24.903	23.871	31.969	47.395

JK [signature]

11-09-94

54-103 S94T000119

S94T000120

File: 941110B

LABCORE Data Entry Template for Worklist# 131

Analyst: JK Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1

Worklist Comment: ICP Fusion Li only (SY103) rerun 1:10 **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.952	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	0.989	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.11	N/A	ug/g
6	SAMPLE	S94T000121	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<66.2	66.2	ug/g
7	DUP	S94T000121	0	F	@ICP-F03 LI-F-01	SOLID	<66.2	<60.7	N/A	ug/g
8	SAMPLE	S94T000122	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<60.4	60.4	ug/g
9	DUP	S94T000122	0	F	@ICP-F03 LI-F-01	SOLID	<60.4	<60.7	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	1.001	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.928	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 131

J.K. Sato
Analyst Signature

11-10-94
Date

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Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

Identity 1: ICV Identity 2: Quality Control 1:46 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.916	4.883	5.005	4.736	4.983	5.053	4.995	4.952
S.D.	0.007	0.006	0.018	0.001	0.006	0.007	0.006	0.006
% R.S.D.	0.147	0.126	0.360	0.026	0.127	0.130	0.115	0.118

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.156	5.063	4.945	5.030	4.624	5.059	5.014	9.796
S.D.	0.005	0.007	0.003	0.004	0.006	0.004	0.023	0.030
% R.S.D.	0.095	0.137	0.052	0.077	0.120	0.070	0.450	0.301

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4.906	4.955	4.906	5.138	4.975	5.026	5.013	4.952
S.D.	0.009	0.008	0.006	0.176	0.056	0.005	0.010	0.009
% R.S.D.	0.178	0.163	0.122	3.426	1.121	0.091	0.192	0.173

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.032	5.439	4.971	5.083	4.826	5.136	4.938	4.992
S.D.	0.012	0.046	0.005	0.005	0.007	0.002	0.009	0.036
% R.S.D.	0.245	0.837	0.108	0.093	0.139	0.046	0.176	0.712

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.032	4.801	4.922	5.200	4.926
S.D.	0.005	0.008	0.006	0.004	0.007
% R.S.D.	0.101	0.159	0.116	0.076	0.137

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54-103 594T000121
594T000122

Identity 1: ICB Identity 2: Quality Control 1:50 PM November 10, 1994
Task name : IWC93
Sample Weight : 1.0000 Solution Volume : 1.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.009	0.001	0.051	0.017	0.003	0.001	-0.001	0.001
S.D.	0.002	0.000	0.009	0.003	0.006	0.001	0.001	0.001
% R.S.D.	19.552	27.040	17.406	17.919	160.141	60.592	69.710	86.721

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.008	0.002	0.010	-0.002	-0.010	-0.000	-0.005	0.569
S.D.	0.000	0.001	0.002	0.002	0.000	0.000	0.017	0.094
% R.S.D.	4.757	57.687	15.010	76.939	3.379	11.563	350.561	16.472

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.061	0.140	0.004	0.010	0.011	0.001	0.000	-0.011
S.D.	0.009	0.016	0.001	0.003	0.004	0.000	0.003	0.006
% R.S.D.	14.791	11.764	12.636	28.982	39.961	28.242	2199.269	54.536

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.019	0.007	0.003	0.004	0.002	0.003	0.094
S.D.	0.001	0.012	0.001	0.000	0.001	0.001	0.002	0.013
% R.S.D.	15.556	63.537	17.140	10.510	12.269	37.479	54.863	14.139

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.001	0.036	0.004	0.002	0.159
S.D.	0.000	0.011	0.001	0.000	0.031
% R.S.D.	36.931	31.134	26.918	16.923	19.321

Identity 1: ICS-A Identity 2: ICSA 1:54 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.005	0.001	0.055	0.038	103.281	0.013	-0.004	0.002
S.D.	0.001	0.000	0.007	0.002	0.448	0.001	0.000	0.000
% R.S.D.	10.597	17.745	12.192	5.972	0.434	10.757	13.028	17.754

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.008	0.006	0.011	102.333	9.725	0.004	0.027	0.431
S.D.	0.000	0.001	0.001	0.240	0.014	0.002	0.010	0.029
% R.S.D.	5.959	24.670	10.181	0.234	0.143	52.159	38.928	6.831

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.025	0.101	0.002	0.024	0.139	9.853	0.009	0.179
S.D.	0.004	0.005	0.000	0.009	0.001	0.017	0.005	0.005
% R.S.D.	17.909	5.047	2.977	37.882	0.897	0.169	51.616	2.871

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.018	0.004	-0.005	0.003	-0.004	-0.008	-0.035
S.D.	0.001	0.018	0.000	0.006	0.000	0.001	0.000	0.015
% R.S.D.	17.359	98.726	9.711	139.767	8.711	16.426	3.186	41.608

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.004	0.099	0.001	0.002	0.095
S.D.	0.000	0.020	0.001	0.000	0.016
% R.S.D.	10.652	20.241	48.580	7.759	16.535

Identity 1: ICS-AB Identity 2: ICSAB 1:58 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.005	0.001	0.064	0.033	101.969	0.009	-0.004	0.989
S.D.	0.003	0.000	0.008	0.005	1.077	0.000	0.001	0.010
% R.S.D.	51.842	54.871	13.027	15.368	1.056	0.219	24.028	1.058

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.022	0.002	0.014	100.951	9.604	0.001	0.005	0.414
S.D.	0.000	0.001	0.003	0.883	0.097	0.001	0.023	0.145
% R.S.D.	0.495	72.014	22.023	0.875	1.006	143.468	453.896	34.872

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.045	0.084	0.002	0.023	0.134	9.715	-0.000	0.179
S.D.	0.026	0.040	0.001	0.006	0.002	0.091	0.006	0.015
% R.S.D.	57.181	47.053	26.249	26.164	1.567	0.940	2034.762	8.612

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.018	0.003	-0.015	0.003	-0.003	-0.009	0.008
S.D.	0.001	0.015	0.001	0.011	0.001	0.001	0.001	0.036
% R.S.D.	33.005	79.421	41.349	72.682	26.577	32.322	8.218	465.866

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	0.055	0.001	0.002	0.094
S.D.	0.000	0.024	0.002	0.000	0.049
% R.S.D.	2.537	43.967	241.631	14.761	51.587

Identity 1: PREPBLKARL Identity 2: Dig Blk, 1-10ml 2:04 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	15.850	3.050	64.922	101.251	143.032	10.095	4.982	7.642
S.D.	12.390	1.225	43.225	15.648	53.011	2.144	6.121	4.553
% R.S.D.	78.171	40.163	66.580	15.455	37.062	21.242	122.856	59.576

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	33.404	986.737	0.917	72.015	4.872	10.265	23.168	-52.335
S.D.	0.224	18.459	7.579	5.959	0.829	5.600	36.475	617.074
% R.S.D.	0.670	1.871	826.431	8.275	17.010	54.555	157.439	1179.083

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-43.884	28.208	4.922	15.689	37.006	20.167	4.049	874.703
S.D.	89.198	145.711	2.523	7.882	7.735	0.429	2.674	63.496
% R.S.D.	203.261	516.551	51.261	50.238	20.901	2.129	66.041	7.259

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4.708	28.950	2.211	28.742	1.687	3.832	10.139	2564567.904
S.D.	3.588	73.979	5.069	22.199	3.300	1.410	2.421	37159.665
% R.S.D.	76.211	255.543	229.234	77.238	195.640	36.796	23.877	1.449

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	9.958	158.231	-3.640	1.117	-55.527
S.D.	0.650	99.950	4.189	0.393	167.493
% R.S.D.	6.530	63.167	115.084	35.159	301.645

Identity 1: S94T000121_L Identity 2: .4157g in 250,1-10ml 2:08 PM November 10, 1994
Task name : TWC93
Sample Weight : 0.4157 Solution Volume : 2750.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	60.981	4.507	359.863	513.548	33496.489	11.823	-4.783	-0.509
S.D.	6.152	1.343	89.499	16.519	166.943	9.181	4.850	2.859
% R.S.D.	10.088	29.806	24.870	3.217	0.498	77.654	101.395	561.233

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	750.505	1939.874	78.987	2357.067	245.433	8716.973	-85.690	1850.967
S.D.	6.238	10.651	27.117	38.482	2.250	45.691	47.051	449.416
% R.S.D.	0.831	0.549	34.331	1.633	0.917	0.524	54.908	24.280

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-59.140	230.205	26.267	6294.776	2980.523	95.247	28.166	177831.709
S.D.	64.241	98.747	2.600	134.738	33.017	1.580	31.344	899.954
% R.S.D.	108.624	42.896	9.899	2.140	1.108	1.659	111.285	0.506

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	52.917	252.823	21.302	190.507	10.317	23.987	49.066	6699014.896
S.D.	5.627	19.816	3.374	21.528	3.745	1.465	3.735	33035.857
% R.S.D.	10.634	7.838	15.837	11.301	36.300	6.109	7.613	0.493

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	819.169	369.107	1.555	3.681	79.603
S.D.	6.543	6.526	6.152	0.042	181.374
% R.S.D.	0.799	1.768	395.708	1.142	227.849

Identity 1: S94T000121_DL Identity 2: .4530g in 250,1-10ml 2:13 PM November 10, 1994
Task name : TWC93
Sample Weight : 0.4530 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	59.373	6.688	340.543	552.518	34777.586	-11.831	9.322	17.322
S.D.	9.770	1.020	66.412	9.496	97.936	9.654	3.474	1.832
% R.S.D.	16.455	15.255	19.502	1.719	0.282	81.598	37.272	10.578

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	123.082	1706.865	103.805	2483.662	229.798	9054.383	47.949	3368.513
S.D.	1.742	9.073	19.949	8.277	1.544	27.009	101.782	711.884
% R.S.D.	1.415	0.532	19.218	0.333	0.672	0.298	212.272	21.133

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	239.603	597.985	32.210	4327.075	2849.698	70.645	-16.655	176422.708
S.D.	124.433	164.354	3.444	48.609	49.064	0.613	29.972	815.269
% R.S.D.	51.933	27.485	10.691	1.123	1.722	0.867	179.954	0.462

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	73.733	237.362	39.924	252.852	20.465	29.802	67.087	6366796.804
S.D.	4.732	53.375	8.373	6.022	2.175	0.774	12.114	30049.945
% R.S.D.	6.418	22.487	20.971	2.382	10.629	2.596	18.057	0.472

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	845.481	392.253	14.293	3.534	767.354
S.D.	1.524	61.467	4.745	0.809	267.104
% R.S.D.	0.180	15.670	33.198	22.891	34.808

Identity 1: S94T000122_L Identity 2: .4553g in 250,1-10ml 2:17 PM November 10, 1994
Task name : TWC93
Sample Weight : 0.4553 Solution Volume : 2750.00
Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	98.886	7.819	257.133	533.823	42826.816	10.375	9.685	22.748
S.D.	2.260	0.589	36.344	19.440	131.111	0.048	4.279	3.006
% R.S.D.	2.286	7.532	14.134	3.642	0.306	0.467	44.185	13.213

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	102.933	2075.676	87.651	2985.935	233.802	9321.731	40.502	4666.309
S.D.	0.794	7.666	7.144	71.945	7.280	26.069	74.628	365.740
% R.S.D.	0.771	0.369	8.151	2.409	3.114	0.280	184.260	7.838

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	374.208	925.188	38.230	4271.206	2302.487	89.543	-48.139	182623.607
S.D.	73.140	99.318	1.004	183.788	24.417	5.610	10.669	528.980
% R.S.D.	19.545	10.735	2.626	4.303	1.060	6.265	22.163	0.290

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	68.836	413.416	48.295	257.822	31.016	28.255	52.888	5808969.727
S.D.	2.519	88.553	3.923	71.697	1.760	1.019	6.633	22288.391
% R.S.D.	3.659	21.420	8.123	27.809	5.674	3.606	12.542	0.384

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	918.491	375.681	35.912	2.408	1121.272
S.D.	2.040	75.257	4.221	0.852	159.203
% R.S.D.	0.222	20.032	11.753	35.378	14.198

Identity 1: S94T000122_DL Identity 2: .4531g in 250,1-10ml 2:21 PM November 10, 1994
Task name : TWC93
Sample Weight : 0.4531 Solution Volume : 2750.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	45.397	4.124	132.481	484.829	37546.037	-3.331	-1.387	17.551
S.D.	6.924	1.229	40.625	23.192	591.850	12.825	8.579	6.438
% R.S.D.	15.251	29.809	30.665	4.783	1.576	385.038	618.480	36.683

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	98.613	2042.998	54.460	2213.421	221.467	8412.814	-3.768	2574.783
S.D.	3.510	6.022	12.976	29.333	4.646	120.677	22.784	592.049
% R.S.D.	3.559	0.295	23.826	1.325	2.098	1.434	604.703	22.994

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-231.043	414.549	31.161	5218.910	2791.656	71.870	24.860	179066.005
S.D.	89.337	159.199	2.757	224.863	95.495	0.639	15.050	2747.193
% R.S.D.	38.667	38.403	8.846	4.309	3.421	0.889	60.537	1.534

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	46.276	389.491	23.734	200.137	12.840	23.128	57.750	7601575.712
S.D.	6.219	73.060	7.623	83.993	3.673	2.157	3.369	113033.683
% R.S.D.	13.439	18.758	32.118	41.968	28.610	9.324	5.833	1.487

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	684.880	278.544	12.410	1.726	505.391
S.D.	10.411	66.629	2.397	0.902	116.561
% R.S.D.	1.520	23.920	19.318	52.241	23.063

Identity 1: ICS-A Identity 2: ICSA 2:38 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.003	-0.000	0.044	0.037	106.465	0.006	-0.007	-0.000
S.D.	0.003	0.000	0.009	0.006	1.157	0.001	0.001	0.002
% R.S.D.	89.405	170.225	20.761	15.151	1.087	23.090	13.228	868.845

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.045	0.009	0.008	106.399	10.047	0.002	0.022	0.365
S.D.	0.000	0.007	0.003	1.015	0.093	0.002	0.019	0.184
% R.S.D.	0.981	85.586	36.488	0.954	0.930	102.656	84.750	50.241

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.015	0.081	0.001	-0.002	0.149	10.202	-0.007	0.181
S.D.	0.028	0.039	0.001	0.006	0.003	0.086	0.002	0.015
% R.S.D.	191.392	48.605	54.156	336.815	1.958	0.841	31.629	8.086

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.003	0.069	0.002	-0.005	0.002	-0.005	-0.009	0.600
S.D.	0.000	0.006	0.001	0.005	0.001	0.001	0.000	0.074
% R.S.D.	12.906	8.152	54.687	82.729	64.379	18.464	2.305	12.367

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.007	-1.412	0.001	0.001	0.082
S.D.	0.000	0.036	0.002	0.000	0.060
% R.S.D.	3.295	2.551	249.961	1.459	73.688

Identity 1: ICS-AB Identity 2: ICSAB 2:43 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.007	-0.000	0.030	0.016	103.362	0.009	-0.006	1.001
S.D.	0.001	0.000	0.006	0.003	1.166	0.000	0.001	0.009
% R.S.D.	13.769	862.314	18.926	17.393	1.128	0.164	20.629	0.917

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.022	-0.004	0.004	102.420	9.756	0.001	0.031	-0.325
S.D.	0.001	0.002	0.000	0.891	0.089	0.000	0.016	0.109
% R.S.D.	2.264	59.974	10.727	0.870	0.917	78.734	52.547	33.489

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-0.021	-0.073	-0.002	0.007	0.137	9.837	-0.006	0.200
S.D.	0.016	0.026	0.001	0.004	0.006	0.085	0.003	0.014
% R.S.D.	74.865	35.192	33.975	53.371	4.273	0.860	43.337	6.806

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.005	0.043	-0.004	-0.007	-0.001	-0.004	-0.011	0.310
S.D.	0.001	0.021	0.001	0.008	0.001	0.000	0.001	0.020
% R.S.D.	13.091	48.827	15.047	108.715	38.853	6.310	8.204	6.395

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.003	0.054	-0.005	0.001	-0.101
S.D.	0.000	0.000	0.001	0.000	0.040
% R.S.D.	11.647	0.821	27.357	10.159	40.088

Identity 1: CCB-1 Identity 2: 2% HNO3 2:52 PM November 10, 1994
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
-Peak Integrations : 3 Off-Peak Integrations : 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.005	0.001	0.043	0.005	0.040	0.005	0.002	0.005
S.D.	0.002	0.000	0.009	0.004	0.009	0.001	0.001	0.001
% R.S.D.	45.393	10.345	21.772	73.514	21.460	15.643	27.905	15.362

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.000	0.002	0.011	0.008	-0.010	0.003	0.030	0.425
S.D.	0.000	0.001	0.001	0.002	0.000	0.002	0.009	0.123
% R.S.D.	38.518	80.897	4.805	27.491	2.615	58.893	31.862	28.943

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.036	0.109	0.002	0.008	0.007	0.001	0.001	0.052
S.D.	0.024	0.028	0.000	0.004	0.001	0.000	0.002	0.009
% R.S.D.	64.826	25.730	15.876	57.288	22.787	14.546	179.848	17.307

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.017	0.018	0.018	0.003	0.002	0.005	0.305
S.D.	0.001	0.010	0.001	0.008	0.001	0.000	0.003	0.053
% R.S.D.	43.130	55.761	6.695	46.201	21.146	19.577	57.187	17.346

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.000	0.044	0.002	0.001	0.102
S.D.	0.000	0.041	0.001	0.000	0.018
% R.S.D.	2.444	93.770	37.075	7.077	18.020

DK
11-10-94
SY-103 S94T000121
S94T000122

File #9[illegible]

LABCORE Data Entry Template for Worklist# 273

Analyst: BSGoecke **Instrument:** ICP01 _____ **Method:** LA-505-151 **Book#** 37B48B
Rev. Mod. D-1

Worklist Comment: ICP Fusion-02 SY-103

WHC-SD-WM-DP-074, REV. 0

Seq	Type	Sample#	R	A	Test	Matrix	Analytes Requested
1	ICV				@ICP-QC	QC	
2	ICB				@ICP-QC	QC	
3	ICSA				@ICP-QC	QC	
4	ICSAB				@ICP-QC	QC	
5	PREPBLKARL				@ICP-F02	SOLID	
6	SAMPLE	S94T000005	0	F	@ICP-F02	SOLID	AL-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , K-F-01 , NA-F-01 , NI-F-01 , ZN-F-01 , ZR-F-01
7	DUP	S94T000005	0	F	@ICP-F02	SOLID	
8	CCV				@ICP-QC	QC	
9	CCB				@ICP-QC	QC	
10	PREPBLKARL				@ICP-F02	SOLID	
11	SAMPLE	S94T000067	0	F	@ICP-F02	SOLID	AL-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , K-F-01 , NA-F-01 , NI-F-01 , ZN-F-01 , ZR-F-01
12	DUP	S94T000067	0	F	@ICP-F02	SOLID	
13	ICSA				@ICP-QC	QC	
14	ICSAB				@ICP-QC	QC	
15	CCV				@ICP-QC	QC	
16	CCB				@ICP-QC	QC	

Final page for worklist # 273

12-27-94

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments: Dup failure on Cr (#67) (#5). Approved after conferring with AD Rice, on 1-26-95. BW

Ag	ICV	LIQ	12/27/94	13 20	BJG	5.035	5.0607	5.0064	5.0388	1	1
Al	ICV	LIQ	12/27/94	13 20	BJG	4.931	4.9546	4.8972	4.9422	1	1
As	ICV	LIQ	12/27/94	13 20	BJG	5.013	5.0466	4.9696	5.0219	1	1
B	ICV	LIQ	12/27/94	13 20	BJG	4.978	5.0155	4.9359	4.9813	1	1
Ba	ICV	LIQ	12/27/94	13 20	BJG	4.947	4.9929	4.8969	4.9514	1	1
Be	ICV	LIQ	12/27/94	13 20	BJG	5.243	5.2785	5.202	5.2478	1	1
	ICV	LIQ	12/27/94	13 20	BJG	4.946	4.9721	4.9005	4.9662	1	1
Ca	ICV	LIQ	12/27/94	13 20	BJG	5.069	5.1094	5.0226	5.0739	1	1
Cd	ICV	LIQ	12/27/94	13 20	BJG	5.144	5.1564	5.1195	5.1574	1	1
Ce	ICV	LIQ	12/27/94	13 20	BJG	4.977	4.9984	4.9498	4.9817	1	1
Co	ICV	LIQ	12/27/94	13 20	BJG	5.225	5.24	5.2002	5.2337	1	1
Cr	ICV	LIQ	12/27/94	13 20	BJG	5.109	5.1274	5.0781	5.1218	1	1
Cu	ICV	LIQ	12/27/94	13 20	BJG	5.091	5.1395	5.0399	5.0941	1	1
Fe	ICV	LIQ	12/27/94	13 20	BJG	5.057	5.0892	5.0373	5.0442	1	1
K	ICV	LIQ	12/27/94	13 20	BJG	4.830	4.8927	4.7536	4.8439	1	1
La	ICV	LIQ	12/27/94	13 20	BJG	4.977	5.0145	4.9364	4.9813	1	1
Li	ICV	LIQ	12/27/94	13 20	BJG	4.901	4.9855	4.809	4.9075	1	1
Mg	ICV	LIQ	12/27/94	13 20	BJG	5.058	5.0784	5.0336	5.0613	1	1
Mn	ICV	LIQ	12/27/94	13 20	BJG	5.060	5.0844	5.0324	5.0623	1	1
Mo	ICV	LIQ	12/27/94	13 20	BJG	5.165	5.1837	5.1356	5.1752	1	1
Na	ICV	LIQ	12/27/94	13 20	BJG	4.866	4.9361	4.7902	4.8718	1	1
Nd	ICV	LIQ	12/27/94	13 20	BJG	4.981	5.0248	4.9281	4.9896	1	1
Ni	ICV	LIQ	12/27/94	13 20	BJG	5.094	5.1013	5.0702	5.1108	1	1
P	ICV	LIQ	12/27/94	13 20	BJG	4.649	4.7018	4.6247	4.6206	1	1
Pb	ICV	LIQ	12/27/94	13 20	BJG	5.064	5.0556	5.0558	5.0797	1	1
S	ICV	LIQ	12/27/94	13 20	BJG	4.915	4.9558	4.8597	4.93	1	1
Sb	ICV	LIQ	12/27/94	13 20	BJG	4.724	4.7336	4.6788	4.7607	1	1
Se	ICV	LIQ	12/27/94	13 20	BJG	5.798	5.805	5.7899	5.7984	1	1
Si	ICV	LIQ	12/27/94	13 20	BJG	4.853	4.8743	4.8278	4.8565	1	1
Sm	ICV	LIQ	12/27/94	13 20	BJG	4.942	4.9876	4.8887	4.9493	1	1
Sr	ICV	LIQ	12/27/94	13 20	BJG	4.939	4.9819	4.8929	4.9423	1	1
Ti	ICV	LIQ	12/27/94	13 20	BJG	4.928	4.9605	4.8917	4.9317	1	1
Tl	ICV	LIQ	12/27/94	13 20	BJG	4.826	4.8239	4.8329	4.8197	1	1
U	ICV	LIQ	12/27/94	13 20	BJG	9.912	9.9477	9.8941	9.8932	1	1
V	ICV	LIQ	12/27/94	13 20	BJG	5.060	5.0849	5.0286	5.065	1	1
Zn	ICV	LIQ	12/27/94	13 20	BJG	5.183	5.1991	5.159	5.1895	1	1
Zr	ICV	LIQ	12/27/94	13 20	BJG	4.989	5.0238	4.9535	4.9883	1	1
Ag	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0024	0.0003	-0.0015	1	1
Al	ICB	LIQ	12/27/94	13 23	BJG	0.004	0.0121	0.0085	-0.0072	1	1
As	ICB	LIQ	12/27/94	13 23	BJG	0.005	0.0058	0.0058	0.0036	1	1
B	ICB	LIQ	12/27/94	13 23	BJG	0.006	0.0061	0.0064	0.004	1	1
Ba	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0007	0.0003	-0.0003	1	1
Be	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0002	0.0006	0.0005	1	1
Bi	ICB	LIQ	12/27/94	13 23	BJG	-0.024	-0.0093	-0.0303	-0.0318	1	1
Ca	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0006	0.0003	0.0002	1	1
Cd	ICB	LIQ	12/27/94	13 23	BJG	0.002	0.0022	0.0022	0.0019	1	1
Ce	ICB	LIQ	12/27/94	13 23	BJG	-0.045	-0.024	-0.0412	-0.0685	1	1
Co	ICB	LIQ	12/27/94	13 23	BJG	-0.001	-0.0014	-0.0014	-0.0014	1	1
Cr	ICB	LIQ	12/27/94	13 23	BJG	-0.000	0	0.0007	-0.0009	1	1
Cu	ICB	LIQ	12/27/94	13 23	BJG	-0.001	-0.0001	-0.001	-0.0023	1	1
Fe	ICB	LIQ	12/27/94	13 23	BJG	0.004	0.004	0.0044	0.0026	1	1
K	ICB	LIQ	12/27/94	13 23	BJG	-0.014	0.0065	-0.0154	-0.0325	1	1
La	ICB	LIQ	12/27/94	13 23	BJG	0.001	0.0025	0.0025	-0.0008	1	1
Li	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0005	0	-0.0002	1	1
Mg	ICB	LIQ	12/27/94	13 23	BJG	0.001	0.0005	0.0007	0.0005	1	1
Mn	ICB	LIQ	12/27/94	13 23	BJG	-0.001	-0.0007	-0.0007	-0.0005	1	1
Mo	ICB	LIQ	12/27/94	13 23	BJG	0.003	0.0046	0.0013	0.0017	1	1
Na	ICB	LIQ	12/27/94	13 23	BJG	-0.011	-0.0033	-0.0107	-0.0181	1	1
Nd	ICB	LIQ	12/27/94	13 23	BJG	0.005	0.0221	0.007	-0.0131	1	1
Ni	ICB	LIQ	12/27/94	13 23	BJG	0.001	0.0001	0.0001	0.0019	1	1
P	ICB	LIQ	12/27/94	13 23	BJG	0.008	0.0014	0.0105	0.0116	1	1
Pb	ICB	LIQ	12/27/94	13 23	BJG	0.012	0.0128	0.0159	0.0078	1	1
S	ICB	LIQ	12/27/94	13 23	BJG	0.004	-0.0051	0.0086	0.007	1	1
Sb	ICB	LIQ	12/27/94	13 23	BJG	-0.025	-0.0183	-0.0226	-0.0335	1	1
Se	ICB	LIQ	12/27/94	13 23	BJG	-0.034	-0.0371	-0.0241	-0.0415	1	1
Si	ICB	LIQ	12/27/94	13 23	BJG	-0.003	0.001	-0.0013	-0.0078	1	1
Sm	ICB	LIQ	12/27/94	13 23	BJG	-0.029	-0.0051	-0.0273	-0.0543	1	1
Sr	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0006	0.0004	0.0001	1	1
Ti	ICB	LIQ	12/27/94	13 23	BJG	0.000	0.0014	0.0003	-0.0007	1	1
Tl	ICB	LIQ	12/27/94	13 23	BJG	-0.001	0.0351	0.0032	-0.04	1	1
U	ICB	LIQ	12/27/94	13 23	BJG	-0.091	-0.0012	-0.0701	-0.2004	1	1
V	ICB	LIQ	12/27/94	13 23	BJG	-0.000	-0.0001	0.0005	-0.001	1	1
Zn	ICB	LIQ	12/27/94	13 23	BJG	0.001	0.0015	0.0018	0.001	1	1
Zr	ICB	LIQ	12/27/94	13 23	BJG	-0.001	0.0014	-0.0008	-0.0034	1	1
Ag	ICSA	LIQ	12/27/94	13 27	BJG	0.004	0.005	0.0045	0.003	1	1
Al	ICSA	LIQ	12/27/94	13 27	BJG	196.542	193.8869	197.1434	198.596	1	1
As	ICSA	LIQ	12/27/94	13 27	BJG	0.019	0.015	0.0186	0.0238	1	1
B	ICSA	LIQ	12/27/94	13 27	BJG	-0.024	-0.0244	-0.0241	-0.0221	1	1
Ba	ICSA	LIQ	12/27/94	13 27	BJG	0.000	0.0005	0	-0.0003	1	1
Be	ICSA	LIQ	12/27/94	13 27	BJG	0.002	0.0019	0.0017	0.0017	1	1
Bi	ICSA	LIQ	12/27/94	13 27	BJG	0.021	0.0297	0.0181	0.0151	1	1
Ca	ICSA	LIQ	12/27/94	13 27	BJG	18.509	18.2697	18.5486	18.7098	1	1
Cd	ICSA	LIQ	12/27/94	13 27	BJG	0.007	0.0064	0.0065	0.0076	1	1
Ce	ICSA	LIQ	12/27/94	13 27	BJG	-0.026	-0.0045	-0.0296	-0.0437	1	1
Co	ICSA	LIQ	12/27/94	13 27	BJG	0.010	0.0111	0.0112	0.0091	1	1

Cr	ICSA	LIQ	12/27/94	13 27	BJG	0.002	0.0024	0.0008	0.003	1	1
Cu	ICSA	LIQ	12/27/94	13 27	BJG	-0.008	-0.0067	-0.0079	-0.0088	1	1
Fe	ICSA	LIQ	12/27/94	13 27	BJG	146.410	144.8925	146.8886	147.4494	1	1
K	ICSA	LIQ	12/27/94	13 27	BJG	0.068	0.0968	0.0529	0.0529	1	1
La	ICSA	LIQ	12/27/94	13 27	BJG	0.011	0.0121	0.0093	0.0115	1	1
Li	ICSA	LIQ	12/27/94	13 27	BJG	0.001	0.0012	0.0003	0.0003	1	1
Mg	ICSA	LIQ	12/27/94	13 27	BJG	19.096	18.8981	19.127	19.2639	1	1
Mn	ICSA	LIQ	12/27/94	13 27	BJG	0.012	0.0115	0.0119	0.0116	1	1
Mo	ICSA	LIQ	12/27/94	13 27	BJG	0.004	0.0025	0.0054	0.004	1	1
Na	ICSA	LIQ	12/27/94	13 27	BJG	189.965	186.8357	190.6249	192.4355	1	1
Nd	ICSA	LIQ	12/27/94	13 27	BJG	0.013	0.0213	0.0165	0.0013	1	1
Ni	ICSA	LIQ	12/27/94	13 27	BJG	0.005	0.0045	0.0057	0.0053	1	1
P	ICSA	LIQ	12/27/94	13 27	BJG	0.047	0.0561	0.0399	0.0461	1	1
Pb	ICSA	LIQ	12/27/94	13 27	BJG	0.016	0.0217	0.0062	0.0206	1	1
S	ICSA	LIQ	12/27/94	13 27	BJG	0.193	0.2004	0.1862	0.1925	1	1
Sb	ICSA	LIQ	12/27/94	13 27	BJG	0.006	0.0271	0.0203	-0.03	1	1
Se	ICSA	LIQ	12/27/94	13 27	BJG	0.034	0.0279	0.0332	0.041	1	1
Si	ICSA	LIQ	12/27/94	13 27	BJG	0.053	0.0548	0.0536	0.0494	1	1
Sm	ICSA	LIQ	12/27/94	13 27	BJG	-0.011	0.0095	-0.0124	-0.0303	1	1
Sr	ICSA	LIQ	12/27/94	13 27	BJG	0.001	0.0009	0.0007	0.0006	1	1
Ti	ICSA	LIQ	12/27/94	13 27	BJG	0.001	0.001	0.0012	-0.0001	1	1
Tl	ICSA	LIQ	12/27/94	13 27	BJG	-0.019	0.0137	-0.0183	-0.0527	1	1
U	ICSA	LIQ	12/27/94	13 27	BJG	0.019	0.1158	0.0066	-0.0661	1	1
V	ICSA	LIQ	12/27/94	13 27	BJG	-0.001	0.0004	-0.0024	-0.0023	1	1
Zn	ICSA	LIQ	12/27/94	13 27	BJG	0.007	0.0067	0.0063	0.0073	1	1
Zr	ICSA	LIQ	12/27/94	13 27	BJG	-0.001	0.0022	-0.0022	-0.0033	1	1
Ag	ICSAB	LIQ	12/27/94	13 30	BJG	0.802	0.8049	0.8047	0.7976	1	1
Al	ICSAB	LIQ	12/27/94	13 30	BJG	198.136	198.5536	198.0427	197.8104	1	1
As	ICSAB	LIQ	12/27/94	13 30	BJG	0.012	0.0172	0.0104	0.0082	1	1
B	ICSAB	LIQ	12/27/94	13 30	BJG	-0.025	-0.0244	-0.0255	-0.0256	1	1
Ba	ICSAB	LIQ	12/27/94	13 30	BJG	0.490	0.4915	0.4893	0.4886	1	1
Be	ICSAB	LIQ	12/27/94	13 30	BJG	0.506	0.5075	0.5053	0.505	1	1
Bi	ICSAB	LIQ	12/27/94	13 30	BJG	-0.003	0.0027	-0.0062	-0.0051	1	1
Ca	ICSAB	LIQ	12/27/94	13 30	BJG	18.660	18.7089	18.6334	18.6375	1	1
Cd	ICSAB	LIQ	12/27/94	13 30	BJG	1.008	1.0073	1.0105	1.0071	1	1
Ce	ICSAB	LIQ	12/27/94	13 30	BJG	-0.010	-0.0206	-0.0025	-0.0063	1	1
Co	ICSAB	LIQ	12/27/94	13 30	BJG	0.524	0.526	0.5239	0.5218	1	1
Cr	ICSAB	LIQ	12/27/94	13 30	BJG	0.506	0.5083	0.505	0.5049	1	1
Cu	ICSAB	LIQ	12/27/94	13 30	BJG	0.494	0.4949	0.4943	0.4924	1	1
Fe	ICSAB	LIQ	12/27/94	13 30	BJG	147.791	147.9391	147.8574	147.5753	1	1
K	ICSAB	LIQ	12/27/94	13 30	BJG	0.102	0.0772	0.109	0.1187	1	1
La	ICSAB	LIQ	12/27/94	13 30	BJG	0.010	0.0105	0.0126	0.0083	1	1
Li	ICSAB	LIQ	12/27/94	13 30	BJG	0.960	0.9639	0.9577	0.9584	1	1
Mg	ICSAB	LIQ	12/27/94	13 30	BJG	19.270	19.2744	19.2568	19.2776	1	1
Mn	ICSAB	LIQ	12/27/94	13 30	BJG	0.511	0.5124	0.5109	0.5103	1	1
Mo	ICSAB	LIQ	12/27/94	13 30	BJG	0.002	0.0021	0.0033	0.0004	1	1
Na	ICSAB	LIQ	12/27/94	13 30	BJG	189.917	190.4419	189.648	189.6603	1	1
Nd	ICSAB	LIQ	12/27/94	13 30	BJG	0.033	0.0274	0.0367	0.0336	1	1
Ni	ICSAB	LIQ	12/27/94	13 30	BJG	0.990	0.9917	0.9955	0.9826	1	1
P	ICSAB	LIQ	12/27/94	13 30	BJG	0.035	0.0447	0.0273	0.0335	1	1
Pb	ICSAB	LIQ	12/27/94	13 30	BJG	1.006	1.0184	0.9895	1.0097	1	1
S	ICSAB	LIQ	12/27/94	13 30	BJG	0.179	0.1728	0.1791	0.1838	1	1
Sb	ICSAB	LIQ	12/27/94	13 30	BJG	-0.022	-0.0434	-0.0078	-0.0155	1	1
Se	ICSAB	LIQ	12/27/94	13 30	BJG	0.056	0.0662	0.0659	0.0348	1	1
Si	ICSAB	LIQ	12/27/94	13 30	BJG	0.044	0.0408	0.0456	0.0456	1	1
Sm	ICSAB	LIQ	12/27/94	13 30	BJG	-0.040	-0.0583	-0.0282	-0.0346	1	1
Sr	ICSAB	LIQ	12/27/94	13 30	BJG	0.001	0.0006	0.0008	0.0007	1	1
Ti	ICSAB	LIQ	12/27/94	13 30	BJG	-0.000	-0.0008	0	-0.0005	1	1
Tl	ICSAB	LIQ	12/27/94	13 30	BJG	-0.048	-0.0681	-0.0394	-0.035	1	1
U	ICSAB	LIQ	12/27/94	13 30	BJG	-0.078	-0.1318	-0.036	-0.0667	1	1
V	ICSAB	LIQ	12/27/94	13 30	BJG	0.495	0.494	0.4963	0.4958	1	1
Zn	ICSAB	LIQ	12/27/94	13 30	BJG	1.009	1.0092	1.0109	1.0082	1	1
Zr	ICSAB	LIQ	12/27/94	13 30	BJG	-0.005	-0.0052	-0.0033	-0.0051	1	1
Ag	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.172	0.1895	0.1759	0.1499	1	10
Al	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.320	0.3974	0.3394	0.2227	1	10
As	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.013	-0.0008	-0.023	0.0634	1	10
B	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.111	0.11	0.1077	0.1151	1	10
Ba	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.030	0.0339	0.0314	0.0249	1	10
Be	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.002	0.0023	0.0037	-0.001	1	10
Bi	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.040	0.0219	0.003	-0.1462	1	10
Ca	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.297	0.308	0.2934	0.2908	1	10
Cd	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.018	0.0332	0.0133	0.0078	1	10
Ce	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.091	0.1055	0.0239	-0.4032	1	10
Co	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.043	-0.0358	-0.0357	-0.0564	1	10
Cr	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.006	0.0182	0.0099	-0.0114	1	10
Cu	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.007	-0.0003	-0.0041	-0.0174	1	10
Fe	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.302	0.3682	0.2936	0.2441	1	10
K	PREPBLKARL	SOLID	12/27/94	13 35	BJG	9453.228	9311.311	9421.963	9626.411	1	10
La	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.008	0.0261	0.015	-0.0178	1	10
Li	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.004	0.0034	-0.0037	-0.0131	1	10
Mg	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.086	0.0904	0.0862	0.0821	1	10
Mn	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.037	0.0395	0.0353	0.0375	1	10
Mo	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.012	-0.0144	-0.0133	-0.0076	1	10
Na	PREPBLKARL	SOLID	12/27/94	13 35	BJG	3.875	3.8997	3.875	3.8503	1	10
Nd	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.086	0.077	0.1317	0.0491	1	10

Ni	PREPBLKARL	SOLID	12/27/94	13 35	BJG	6.657	6.5586	6.636	6.7773	1	10		
P	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.023	0.1538	-0.0181	-0.0677	1	10		
Pb	PREPBLKARL	SOLID	12/27/94	13 35	BJG	-0.010	-0.0094	0.0445	-0.0661	1	10		
S	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.334	0.2931	0.3631	0.3468	1	10		
Sb	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.194	0.2917	0.2162	0.0746	1	10		
[illegible]	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.013	-0.0312	0.0916	-0.0207	1	10		
[illegible]	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.672	0.7056	0.6646	0.6456	1	10		
Sm	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.351	0.611	0.4352	0.0071	1	10		
Sr	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.002	0.0041	0.0022	-0.0006	1	10		
Ti	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.017	0.0231	0.0179	0.0098	1	10		
Tl	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.593	1.0891	0.5679	0.122	1	10		
U	PREPBLKARL	SOLID	12/27/94	13 35	BJG	1.500	2.8017	1.6721	0.0251	1	10		
V	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.016	0.0215	0.0223	0.0043	1	10		
Zn	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.015	0.0118	0.0159	0.0175	1	10		
Zr	PREPBLKARL	SOLID	12/27/94	13 35	BJG	0.100	0.1172	0.1086	0.0735	1	10		
Ag	S94T000005L	SOLID	12/27/94	13 51	BJG	-74.376	-113.193	-73.3556	-36.5798	0.5523	12500		
Al	S94T000005L	SOLID	12/27/94	13 51	BJG	22370.464	22456.74	22411.2	22243.45	0.5523	12500	2942	1132
As	S94T000005L	SOLID	12/27/94	13 51	BJG	-56.594	-38.2683	31.0378	-162.552	0.5523	12500		
B	S94T000005L	SOLID	12/27/94	13 51	BJG	95.243	82.2086	104.2928	99.2276	0.5523	12500		
Ba	S94T000005L	SOLID	12/27/94	13 51	BJG	-15.093	-28.1185	-14.6323	-2.527	0.5523	12500		
Be	S94T000005L	SOLID	12/27/94	13 51	BJG	-7.411	-9.9831	-6.2525	-5.9973	0.5523	12500		
Bi	S94T000005L	SOLID	12/27/94	13 51	BJG	-454.710	-503.273	-443.832	-417.024	0.5523	12500		
Ca	S94T000005L	SOLID	12/27/94	13 51	BJG	272.569	291.7298	267.2992	258.6767	0.5523	12500	566	2263
Cd	S94T000005L	SOLID	12/27/94	13 51	BJG	35.393	17.5843	54.5308	34.0643	0.5523	12500		
Ce	S94T000005L	SOLID	12/27/94	13 51	BJG	-1143.885	-1753.8	-1157.57	-520.283	0.5523	12500		
Co	S94T000005L	SOLID	12/27/94	13 51	BJG	-62.433	-77.8018	-78.2564	-31.2416	0.5523	12500		
Cr	S94T000005L	SOLID	12/27/94	13 51	BJG	2.201	-7.291	-2.3967	16.2901	0.5523	12500	453	226
Cu	S94T000005L	SOLID	12/27/94	13 51	BJG	-54.255	-62.6349	-62.3814	-37.7489	0.5523	12500		
Fe	S94T000005L	SOLID	12/27/94	13 51	BJG	323.765	285.5505	328.0513	357.6946	0.5523	12500	1471	1132
K	S94T000005L	SOLID	12/27/94	13 51	BJG	3917608.757	3985407	3913137	3854282	0.5523	12500		
La	S94T000005L	SOLID	12/27/94	13 51	BJG	-42.727	-92.3853	-18.4361	-17.3584	0.5523	12500		
Li	S94T000005L	SOLID	12/27/94	13 51	BJG	-27.883	-42.1216	-29.6649	-11.8632	0.5523	12500		
Mg	S94T000005L	SOLID	12/27/94	13 51	BJG	37.000	40.0183	33.9091	37.072	0.5523	12500		
Mn	S94T000005L	SOLID	12/27/94	13 51	BJG	-6.132	-5.9681	-10.9499	-1.4771	0.5523	12500		
Mo	S94T000005L	SOLID	12/27/94	13 51	BJG	40.314	29.1637	44.6032	47.1765	0.5523	12500		
Na	S94T000005L	SOLID	12/27/94	13 51	BJG	145099.620	147656	144857	142785.8	0.5523	12500		
Nd	S94T000005L	SOLID	12/27/94	13 51	BJG	-209.408	-484.279	-161.599	17.6524	0.5523	12500		
Ni	S94T000005L	SOLID	12/27/94	13 51	BJG	1014.716	957.9452	1058.068	1028.136	0.5523	12500		
P	S94T000005L	SOLID	12/27/94	13 51	BJG	5579.374	5229.181	5548.601	5960.339	0.5523	12500		
Pb	S94T000005L	SOLID	12/27/94	13 51	BJG	131.862	5.9297	154.1153	235.5414	0.5523	12500		
S	S94T000005L	SOLID	12/27/94	13 51	BJG	827.044	704.8169	971.7976	804.5177	0.5523	12500		
Sb	S94T000005L	SOLID	12/27/94	13 51	BJG	-390.129	-542.739	-323.022	-304.627	0.5523	12500		
Se	S94T000005L	SOLID	12/27/94	13 51	BJG	-511.414	-669.19	-537.24	-327.813	0.5523	12500		
[illegible]i	S94T000005L	SOLID	12/27/94	13 51	BJG	-32.080	-178.736	7.4946	75.0003	0.5523	12500		
[illegible]n	S94T000005L	SOLID	12/27/94	13 51	BJG	-1741.271	-2553.83	-1632.47	-1037.51	0.5523	12500		
[illegible]r	S94T000005L	SOLID	12/27/94	13 51	BJG	-9.376	-14.4275	-10.1065	-3.5947	0.5523	12500		
Ti	S94T000005L	SOLID	12/27/94	13 51	BJG	-43.580	-66.818	-37.7861	-26.1369	0.5523	12500		
Tl	S94T000005L	SOLID	12/27/94	13 51	BJG	-1748.570	-2803.87	-1859.86	-581.982	0.5523	12500		
U	S94T000005L	SOLID	12/27/94	13 51	BJG	-6225.263	-9389.17	-6007.95	-3278.67	0.5523	12500		
V	S94T000005L	SOLID	12/27/94	13 51	BJG	-30.725	-63.6632	-34.4334	5.9227	0.5523	12500		
Zn	S94T000005L	SOLID	12/27/94	13 51	BJG	-36.590	-33.0454	-40.0581	-36.6663	0.5523	12500	905	226
Zr	S94T000005L	SOLID	12/27/94	13 51	BJG	-131.520	-195.951	-139.552	-59.0569	0.5523	12500	1018	226
Ag	S94T000005A	SOLID	12/27/94	13 55	BJG	3797.535	3834.97	3791.797	3765.839	0.5523	2500		
Al	S94T000005A	SOLID	12/27/94	13 55	BJG	26836.493	27084.61	26830.21	26594.65	0.5523	2500		
As	S94T000005A	SOLID	12/27/94	13 55	BJG	4607.235	4618.405	4641.662	4561.637	0.5523	2500		
B	S94T000005A	SOLID	12/27/94	13 55	BJG	4517.769	4554.438	4525.215	4473.654	0.5523	2500		
Ba	S94T000005A	SOLID	12/27/94	13 55	BJG	4506.234	4564.798	4499.671	4454.234	0.5523	2500		
Be	S94T000005A	SOLID	12/27/94	13 55	BJG	4663.640	4710.273	4663.874	4616.774	0.5523	2500		
Bi	S94T000005A	SOLID	12/27/94	13 55	BJG	4528.141	4593.986	4467.158	4523.28	0.5523	2500		
Ca	S94T000005A	SOLID	12/27/94	13 55	BJG	4996.483	5058.853	4990.16	4940.437	0.5523	2500		
Cd	S94T000005A	SOLID	12/27/94	13 55	BJG	4661.800	4695.412	4651.143	4638.844	0.5523	2500		
Ce	S94T000005A	SOLID	12/27/94	13 55	BJG	4467.691	4407.871	4495.249	4499.954	0.5523	2500		
Co	S94T000005A	SOLID	12/27/94	13 55	BJG	4741.655	4776.428	4766.917	4681.622	0.5523	2500		
Cr	S94T000005A	SOLID	12/27/94	13 55	BJG	4726.950	4767.665	4711.683	4701.501	0.5523	2500		
Cu	S94T000005A	SOLID	12/27/94	13 55	BJG	4645.092	4703.223	4638.518	4593.535	0.5523	2500		
Fe	S94T000005A	SOLID	12/27/94	13 55	BJG	4718.068	4757.318	4696.299	4700.588	0.5523	2500		
K	S94T000005A	SOLID	12/27/94	13 55	BJG	3767734.314	3818852	3757513	3726838	0.5523	2500		
La	S94T000005A	SOLID	12/27/94	13 55	BJG	4558.293	4595.285	4566.382	4513.214	0.5523	2500		
Li	S94T000005A	SOLID	12/27/94	13 55	BJG	4235.397	4300.108	4218.893	4187.191	0.5523	2500		
Mg	S94T000005A	SOLID	12/27/94	13 55	BJG	4638.921	4677.098	4636.859	4602.807	0.5523	2500		
Mn	S94T000005A	SOLID	12/27/94	13 55	BJG	4630.840	4669.948	4628.596	4593.976	0.5523	2500		
Mo	S94T000005A	SOLID	12/27/94	13 55	BJG	4795.191	4837.908	4794.677	4752.99	0.5523	2500		
Na	S94T000005A	SOLID	12/27/94	13 55	BJG	145427.996	147435.8	144939.1	143909.1	0.5523	2500		
Nd	S94T000005A	SOLID	12/27/94	13 55	BJG	4512.746	4527.987	4520.364	4489.888	0.5523	2500		
Ni	S94T000005A	SOLID	12/27/94	13 55	BJG	6242.554	6357.458	6194.566	6175.638	0.5523	2500		
P	S94T000005A	SOLID	12/27/94	13 55	BJG	9914.992	9829.403	9833.775	10081.8	0.5523	2500		
Pb	S94T000005A	SOLID	12/27/94	13 55	BJG	4763.418	4832.779	4764.552	4692.923	0.5523	2500		
S	S94T000005A	SOLID	12/27/94	13 55	BJG	5287.261	5278.086	5312.103	5271.595	0.5523	2500		
Sb	S94T000005A	SOLID	12/27/94	13 55	BJG	4227.197	4266.936	4169.531	4245.124	0.5523	2500		
Se	S94T000005A	SOLID	12/27/94	13 55	BJG	5269.219	5401.601	5190.674	5215.383	0.5523	2500		
Si	S94T000005A	SOLID	12/27/94	13 55	BJG	4876.277	4919.002	4868.88	4840.949	0.5523	2500		
Sm	S94T000005A	SOLID	12/27/94	13 55	BJG	4640.162	4594.746	4651.915	4673.827	0.5523	2500		
[illegible]r	S94T000005A	SOLID	12/27/94	13 55	BJG	4509.070	4563.926	4503.686	4459.598	0.5523	2500		
[illegible]i	S94T000005A	SOLID	12/27/94	13 55	BJG	4515.370	4559.881	4510.671	4475.559	0.5523	2500		
Tl	S94T000005A	SOLID	12/27/94	13 55	BJG	4702.936	4543.288	4773.284	4792.236	0.5523	2500		

U	S94T000005A	SOLID	12/27/94	13 55	BJG	9645.823	9317.394	9706.776	9913.298	0.5523	2500		
V	S94T000005A	SOLID	12/27/94	13 55	BJG	4658.155	4701.564	4652.223	4620.678	0.5523	2500		
Zn	S94T000005A	SOLID	12/27/94	13 55	BJG	4745.485	4781.988	4736.899	4717.568	0.5523	2500		
Zr	S94T000005A	SOLID	12/27/94	13 55	BJG	4610.981	4651.561	4608.963	4572.419	0.5523	2500		
Ag	S94T000005	SOLID	12/27/94	13 58	BJG	112.541	110.7215	106.7853	120.1169	0.5523	2500		
Al	S94T000005	SOLID	12/27/94	13 58	BJG	22344.382	22629.3	22532.91	21870.94	0.5523	2500	588	226
As	S94T000005	SOLID	12/27/94	13 58	BJG	9.996	14.2982	8.1801	7.5098	0.5523	2500		
B	S94T000005	SOLID	12/27/94	13 58	BJG	84.648	79.8861	82.6171	91.4398	0.5523	2500		
Ba	S94T000005	SOLID	12/27/94	13 58	BJG	11.821	9.5199	9.812	16.1316	0.5523	2500		
Be	S94T000005	SOLID	12/27/94	13 58	BJG	2.085	1.5685	1.5952	3.0923	0.5523	2500		
Bi	S94T000005	SOLID	12/27/94	13 58	BJG	15.463	-49.3272	22.861	72.8539	0.5523	2500		
Ca	S94T000005	SOLID	12/27/94	13 58	BJG	220.067	229.0726	220.45	210.6778	0.5523	2500	113	452
Cd	S94T000005	SOLID	12/27/94	13 58	BJG	8.194	4.3594	10.1007	10.1209	0.5523	2500		
Ce	S94T000005	SOLID	12/27/94	13 58	BJG	127.516	-9.5519	35.6577	356.4411	0.5523	2500		
Co	S94T000005	SOLID	12/27/94	13 58	BJG	-0.172	3.0672	-6.4336	2.8516	0.5523	2500		
Cr	S94T000005	SOLID	12/27/94	13 58	BJG	64.530	61.5265	66.0752	65.9888	0.5523	2500	90.5	45.2
Cu	S94T000005	SOLID	12/27/94	13 58	BJG	6.867	1.4656	3.319	15.8164	0.5523	2500		
Fe	S94T000005	SOLID	12/27/94	13 58	BJG	80.799	65.3331	86.9998	90.0639	0.5523	2500	294	226
K	S94T000005	SOLID	12/27/94	13 58	BJG	3769784.464	3838010	3811200	3660144	0.5523	2500		
La	S94T000005	SOLID	12/27/94	13 58	BJG	5.010	-3.3197	-3.2034	21.5532	0.5523	2500		
Li	S94T000005	SOLID	12/27/94	13 58	BJG	5.223	1.1881	2.9683	11.5127	0.5523	2500		
Mg	S94T000005	SOLID	12/27/94	13 58	BJG	18.792	18.5697	18.5767	19.2303	0.5523	2500		
Mn	S94T000005	SOLID	12/27/94	13 58	BJG	17.276	16.9902	16.9734	17.8635	0.5523	2500		
Mo	S94T000005	SOLID	12/27/94	13 58	BJG	72.395	67.0764	75.3109	74.7962	0.5523	2500		
Na	S94T000005	SOLID	12/27/94	13 58	BJG	140554.044	143125.4	142296.9	136239.9	0.5523	2500		
Nd	S94T000005	SOLID	12/27/94	13 58	BJG	156.838	101.8588	107.4732	261.183	0.5523	2500		
Ni	S94T000005	SOLID	12/27/94	13 58	BJG	1331.692	1399.679	1274.673	1320.724	0.5523	2500		
P	S94T000005	SOLID	12/27/94	13 58	BJG	5101.698	4973.474	5271.959	5059.661	0.5523	2500		
Pb	S94T000005	SOLID	12/27/94	13 58	BJG	-47.083	-40.4558	-6.7956	-93.9967	0.5523	2500		
S	S94T000005	SOLID	12/27/94	13 58	BJG	677.046	690.3652	662.1571	678.6171	0.5523	2500		
Sb	S94T000005	SOLID	12/27/94	13 58	BJG	-36.541	19.2763	-128.626	-0.2716	0.5523	2500		
Se	S94T000005	SOLID	12/27/94	13 58	BJG	-4.986	-12.7286	7.4166	-9.6457	0.5523	2500		
Si	S94T000005	SOLID	12/27/94	13 58	BJG	241.212	223.5304	216.8668	283.2394	0.5523	2500		
Sm	S94T000005	SOLID	12/27/94	13 58	BJG	60.452	-110.714	-39.7365	331.8046	0.5523	2500		
Sr	S94T000005	SOLID	12/27/94	13 58	BJG	4.505	3.2044	3.6371	6.6742	0.5523	2500		
Ti	S94T000005	SOLID	12/27/94	13 58	BJG	6.569	2.1983	4.4403	13.0672	0.5523	2500		
Tl	S94T000005	SOLID	12/27/94	13 58	BJG	144.150	-113.219	-1.8445	547.5137	0.5523	2500		
U	S94T000005	SOLID	12/27/94	13 58	BJG	392.611	-266.114	19.7978	1424.151	0.5523	2500		
V	S94T000005	SOLID	12/27/94	13 58	BJG	8.396	3.9028	1.0592	20.2259	0.5523	2500		
Zn	S94T000005	SOLID	12/27/94	13 58	BJG	26.263	25.3308	25.1814	28.2761	0.5523	2500	181	45.2
Zr	S94T000005	SOLID	12/27/94	13 58	BJG	10.520	-3.2451	2.0674	32.7373	0.5523	2500	204	45.2
Ag	S94T000005D	SOLID	12/27/94	14 1	BJG	49.336	45.4207	51.3092	51.2774	0.554	2500		
Al	S94T000005D	SOLID	12/27/94	14 1	BJG	22162.600	22352.75	22112.54	22022.5	0.554	2500		226
As	S94T000005D	SOLID	12/27/94	14 1	BJG	17.256	0.0507	29.9871	21.7295	0.554	2500		
B	S94T000005D	SOLID	12/27/94	14 1	BJG	62.027	64.7364	65.0716	56.273	0.554	2500		
Ba	S94T000005D	SOLID	12/27/94	14 1	BJG	7.568	4.837	8.6049	9.2607	0.554	2500		
Be	S94T000005D	SOLID	12/27/94	14 1	BJG	-1.388	-1.9032	-0.4503	-1.8111	0.554	2500		
Bi	S94T000005D	SOLID	12/27/94	14 1	BJG	-27.006	-85.5562	7.9803	-3.4408	0.554	2500		
Ca	S94T000005D	SOLID	12/27/94	14 1	BJG	177.271	181.9507	175.6469	174.2142	0.554	2500	112	453
Cd	S94T000005D	SOLID	12/27/94	14 1	BJG	9.529	10.0638	9.2612	9.2625	0.554	2500		
Ce	S94T000005D	SOLID	12/27/94	14 1	BJG	-135.334	-251.464	-71.1167	-83.4211	0.554	2500		
Co	S94T000005D	SOLID	12/27/94	14 1	BJG	-3.230	-6.2951	-6.4209	3.0249	0.554	2500		
Cr	S94T000005D	SOLID	12/27/94	14 1	BJG	54.205	56.3441	51.1278	55.1439	0.554	2500	90.2	45.3
Cu	S94T000005D	SOLID	12/27/94	14 1	BJG	-0.655	-4.1796	-0.6887	2.9027	0.554	2500		
Fe	S94T000005D	SOLID	12/27/94	14 1	BJG	30.154	34.9737	31.2148	24.2731	0.554	2500		
K	S94T000005D	SOLID	12/27/94	14 1	BJG	3814483.204	3874328	3797611	3771511	0.554	2500		
La	S94T000005D	SOLID	12/27/94	14 1	BJG	11.154	-3.5798	16.1072	20.9354	0.554	2500		
Li	S94T000005D	SOLID	12/27/94	14 1	BJG	-1.775	-4.4951	-0.592	-0.2369	0.554	2500		
Mg	S94T000005D	SOLID	12/27/94	14 1	BJG	13.985	13.5577	14.199	14.1992	0.554	2500		
Mn	S94T000005D	SOLID	12/27/94	14 1	BJG	14.387	16.017	12.1345	15.0101	0.554	2500		
Mo	S94T000005D	SOLID	12/27/94	14 1	BJG	62.766	62.2529	68.4098	57.6353	0.554	2500		
Na	S94T000005D	SOLID	12/27/94	14 1	BJG	141011.950	143344.7	140308.8	139382.4	0.554	2500		
Nd	S94T000005D	SOLID	12/27/94	14 1	BJG	43.683	18.7939	15.9723	96.2816	0.554	2500		
Ni	S94T000005D	SOLID	12/27/94	14 1	BJG	1327.938	1355.493	1323.634	1304.689	0.554	2500		
P	S94T000005D	SOLID	12/27/94	14 1	BJG	4949.065	4844.136	4861.817	5141.243	0.554	2500		
Pb	S94T000005D	SOLID	12/27/94	14 1	BJG	12.577	-83.5503	9.8301	111.4497	0.554	2500		
S	S94T000005D	SOLID	12/27/94	14 1	BJG	649.414	657.9836	647.781	642.4778	0.554	2500		
Sb	S94T000005D	SOLID	12/27/94	14 1	BJG	0.723	-9.4112	-113.09	124.6709	0.554	2500		
Se	S94T000005D	SOLID	12/27/94	14 1	BJG	-114.938	-118.788	-101.61	-124.415	0.554	2500		
Si	S94T000005D	SOLID	12/27/94	14 1	BJG	224.426	195.249	246.1766	231.8509	0.554	2500		
Sm	S94T000005D	SOLID	12/27/94	14 1	BJG	-109.162	-264.456	-49.5935	-13.4362	0.554	2500		
Sr	S94T000005D	SOLID	12/27/94	14 1	BJG	0.729	-0.713	1.45	1.4499	0.554	2500		
Ti	S94T000005D	SOLID	12/27/94	14 1	BJG	-0.952	-6.1633	1.0108	2.297	0.554	2500		
Tl	S94T000005D	SOLID	12/27/94	14 1	BJG	-35.765	-360.438	96.9009	156.2411	0.554	2500		
U	S94T000005D	SOLID	12/27/94	14 1	BJG	-285.015	-939.044	37.624	46.3762	0.554	2500		
V	S94T000005D	SOLID	12/27/94	14 1	BJG	-3.405	-12.1488	-0.7168	2.6517	0.554	2500		
Zn	S94T000005D	SOLID	12/27/94	14 1	BJG	4.280	3.074	4.8458	4.9211	0.554	2500		
Zr	S94T000005D	SOLID	12/27/94	14 1	BJG	-2.588	-17.7591	2.1939	7.8007	0.554	2500		
Ag	CCC_1	LIQ	12/27/94	14 5	BJG	4.578	4.4385	4.5995	4.6964	1	1		
Al	CCC_1	LIQ	12/27/94	14 5	BJG	4.933	4.8777	4.9331	4.9894	1	1		
As	CCC_1	LIQ	12/27/94	14 5	BJG	4.954	4.9091	4.9635	4.9886	1	1		
B	CCC_1	LIQ	12/27/94	14 5	BJG	5.008	4.955	5.0044	5.0637	1	1		
Ba	CCC_1	LIQ	12/27/94	14 5	BJG	4.955	4.8979	4.9457	5.0203	1	1		
Be	CCC_1	LIQ	12/27/94	14 5	BJG	5.179	5.1338	5.1759	5.2278	1	1		
Bi	CCC_1	LIQ	12/27/94	14 5	BJG	4.935	4.8705	4.9385	4.9954	1	1		

Ca	CCC_1	LIQ	12/27/94	14	5	BJG	5.098	5.0454	5.0901	5.159	1	1
Cd	CCC_1	LIQ	12/27/94	14	5	BJG	5.101	5.0668	5.1037	5.1314	1	1
Ce	CCC_1	LIQ	12/27/94	14	5	BJG	4.884	4.8392	4.883	4.9284	1	1
Co	CCC_1	LIQ	12/27/94	14	5	BJG	5.144	5.1039	5.1437	5.1834	1	1
Cr	CCC_1	LIQ	12/27/94	14	5	BJG	5.072	5.0456	5.07	5.1003	1	1
Cu	CCC_1	LIQ	12/27/94	14	5	BJG	5.128	5.0729	5.1185	5.192	1	1
[illegible]	CCC_1	LIQ	12/27/94	14	5	BJG	5.090	5.0522	5.0699	5.1475	1	1
[illegible]	CCC_1	LIQ	12/27/94	14	5	BJG	5.482	5.4611	5.4586	5.5269	1	1
La	CCC_1	LIQ	12/27/94	14	5	BJG	5.007	4.9621	4.9942	5.0648	1	1
Li	CCC_1	LIQ	12/27/94	14	5	BJG	4.920	4.8298	4.9132	5.0168	1	1
Mg	CCC_1	LIQ	12/27/94	14	5	BJG	5.000	4.966	4.9966	5.0375	1	1
Mn	CCC_1	LIQ	12/27/94	14	5	BJG	5.055	5.0258	5.0513	5.0884	1	1
Mo	CCC_1	LIQ	12/27/94	14	5	BJG	5.036	4.9862	5.038	5.0837	1	1
Na	CCC_1	LIQ	12/27/94	14	5	BJG	4.942	4.8693	4.9361	5.0202	1	1
Nd	CCC_1	LIQ	12/27/94	14	5	BJG	5.109	5.0732	5.1147	5.1384	1	1
Ni	CCC_1	LIQ	12/27/94	14	5	BJG	5.064	5.03	5.0812	5.0818	1	1
P	CCC_1	LIQ	12/27/94	14	5	BJG	4.869	4.7566	4.9393	4.9118	1	1
Pb	CCC_1	LIQ	12/27/94	14	5	BJG	5.056	5.0446	5.0413	5.0832	1	1
S	CCC_1	LIQ	12/27/94	14	5	BJG	4.929	4.8895	4.9411	4.9578	1	1
Sb	CCC_1	LIQ	12/27/94	14	5	BJG	4.810	4.7447	4.7792	4.9047	1	1
Se	CCC_1	LIQ	12/27/94	14	5	BJG	5.693	5.6201	5.7251	5.7351	1	1
Si	CCC_1	LIQ	12/27/94	14	5	BJG	4.822	4.78	4.8254	4.861	1	1
Sm	CCC_1	LIQ	12/27/94	14	5	BJG	4.890	4.8349	4.8819	4.9523	1	1
Sr	CCC_1	LIQ	12/27/94	14	5	BJG	4.927	4.8745	4.919	4.9887	1	1
Ti	CCC_1	LIQ	12/27/94	14	5	BJG	4.893	4.8458	4.8876	4.9442	1	1
Tl	CCC_1	LIQ	12/27/94	14	5	BJG	4.861	4.853	4.8526	4.8787	1	1
U	CCC_1	LIQ	12/27/94	14	5	BJG	10.066	9.9907	10.0757	10.1311	1	1
V	CCC_1	LIQ	12/27/94	14	5	BJG	5.061	5.0233	5.0525	5.1074	1	1
Zn	CCC_1	LIQ	12/27/94	14	5	BJG	5.161	5.1215	5.1604	5.2017	1	1
Zr	CCC_1	LIQ	12/27/94	14	5	BJG	5.005	4.9638	4.9967	5.0537	1	1
Ag	CCB_1	LIQ	12/27/94	14	7	BJG	0.247	0.1935	0.2631	0.2839	1	1
Al	CCB_1	LIQ	12/27/94	14	7	BJG	0.006	0.0055	0.0017	0.0103	1	1
As	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.002	0.0031	0.0042	1	1
B	CCB_1	LIQ	12/27/94	14	7	BJG	0.006	0.0063	0.0056	0.0058	1	1
Ba	CCB_1	LIQ	12/27/94	14	7	BJG	0.002	0.0024	0.0016	0.0018	1	1
Be	CCB_1	LIQ	12/27/94	14	7	BJG	0.002	0.002	0.0014	0.0013	1	1
Bi	CCB_1	LIQ	12/27/94	14	7	BJG	-0.038	-0.041	-0.04	-0.0331	1	1
Ca	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.0047	0.0026	0.0019	1	1
Cd	CCB_1	LIQ	12/27/94	14	7	BJG	0.004	0.004	0.0037	0.0042	1	1
Ce	CCB_1	LIQ	12/27/94	14	7	BJG	-0.059	-0.0586	-0.0658	-0.0513	1	1
Co	CCB_1	LIQ	12/27/94	14	7	BJG	0.005	0.0049	0.0049	0.0049	1	1
Cr	CCB_1	LIQ	12/27/94	14	7	BJG	0.001	0.0018	0.0005	0.0001	1	1
Cu	CCB_1	LIQ	12/27/94	14	7	BJG	0.000	0.0007	-0.0002	0	1	1
Fe	CCB_1	LIQ	12/27/94	14	7	BJG	0.005	0.0071	0.0046	0.0023	1	1
[illegible]	CCB_1	LIQ	12/27/94	14	7	BJG	0.551	0.6895	0.4919	0.4724	1	1
[illegible]	CCB_1	LIQ	12/27/94	14	7	BJG	0.007	0.0079	0.0036	0.01	1	1
Li	CCB_1	LIQ	12/27/94	14	7	BJG	0.002	0.0027	0.0017	0.0019	1	1
Mg	CCB_1	LIQ	12/27/94	14	7	BJG	0.002	0.0031	0.0022	0.0019	1	1
Mn	CCB_1	LIQ	12/27/94	14	7	BJG	0.001	0.002	0.0006	0.0012	1	1
Mo	CCB_1	LIQ	12/27/94	14	7	BJG	0.005	0.0056	0.005	0.0034	1	1
Na	CCB_1	LIQ	12/27/94	14	7	BJG	0.091	0.0981	0.0833	0.0907	1	1
Nd	CCB_1	LIQ	12/27/94	14	7	BJG	0.013	0.0162	0.0047	0.0194	1	1
Ni	CCB_1	LIQ	12/27/94	14	7	BJG	0.005	0.0048	0.0054	0.0048	1	1
P	CCB_1	LIQ	12/27/94	14	7	BJG	0.013	0.0013	0.0176	0.0195	1	1
Pb	CCB_1	LIQ	12/27/94	14	7	BJG	0.020	0.0127	0.0225	0.0246	1	1
S	CCB_1	LIQ	12/27/94	14	7	BJG	0.001	0.0012	-0.0008	0.0036	1	1
Sb	CCB_1	LIQ	12/27/94	14	7	BJG	0.001	-0.0005	-0.0128	0.0161	1	1
Se	CCB_1	LIQ	12/27/94	14	7	BJG	0.001	-0.0101	0.0106	0.0035	1	1
Si	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.0041	0.0003	0.0051	1	1
Sm	CCB_1	LIQ	12/27/94	14	7	BJG	0.016	0.0164	0.0064	0.0263	1	1
Sr	CCB_1	LIQ	12/27/94	14	7	BJG	0.002	0.0023	0.0014	0.0015	1	1
Ti	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.0031	0.0022	0.0025	1	1
Tl	CCB_1	LIQ	12/27/94	14	7	BJG	0.045	0.0348	0.0291	0.0696	1	1
U	CCB_1	LIQ	12/27/94	14	7	BJG	0.071	0.0621	0.0256	0.1253	1	1
V	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.0034	0.0026	0.0028	1	1
Zn	CCB_1	LIQ	12/27/94	14	7	BJG	0.004	0.0046	0.0039	0.0038	1	1
Zr	CCB_1	LIQ	12/27/94	14	7	BJG	0.003	0.0037	0.0019	0.0039	1	1
Ag	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.254	0.2692	0.2456	0.2466	1	10
Al	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.290	0.3111	0.245	0.3145	1	10
As	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.029	0.0263	0.0395	0.0224	1	10
B	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.068	0.0648	0.0715	0.0685	1	10
Ba	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.022	0.0228	0.0192	0.0249	1	10
Be	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.003	0.002	0.0034	0.005	1	10
Bi	PREPBLKARL	SOLID	12/27/94	14	11	BJG	-0.107	-0.0692	-0.0445	-0.2059	1	10
Ca	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.250	0.2502	0.2508	0.2489	1	10
Cd	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.028	0.0296	0.0241	0.0296	1	10
Ce	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.034	0.0699	-0.0663	0.097	1	10
Co	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.013	0.0061	0.0062	0.027	1	10
Cr	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.029	0.0274	0.0352	0.0258	1	10
Cu	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.004	0.0076	-0.001	0.0065	1	10
Fe	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.090	0.102	0.0772	0.0904	1	10
K	PREPBLKARL	SOLID	12/27/94	14	11	BJG	10435.355	10396.27	10496.36	10413.44	1	10
[illegible]	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.021	0.0248	0.0353	0.0035	1	10
[illegible]	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.009	0.0089	0.0058	0.0113	1	10
Mg	PREPBLKARL	SOLID	12/27/94	14	11	BJG	0.030	0.0315	0.0287	0.0287	1	10

Mn	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.052	0.0503	0.0503	0.0545	1	10	
Mo	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.009	0.0152	0.0049	0.0072	1	10	
Na	PREPBLKARL	SOLID	12/27/94	14 11	BJG	4.650	4.6912	4.617	4.6418	1	10	
Nd	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.307	0.4137	0.1467	0.3613	1	10	
Ni	PREPBLKARL	SOLID	12/27/94	14 11	BJG	10.379	10.3321	10.4293	10.3741	1	10	
P	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.068	0.0037	-0.0366	0.2369	1	10	
Pb	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.240	0.3	0.2706	0.1494	1	10	
S	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.063	0.0367	0.0991	0.0524	1	10	
Sb	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.330	0.3674	0.2006	0.4226	1	10	
Se	PREPBLKARL	SOLID	12/27/94	14 11	BJG	-0.144	-0.2354	-0.1416	-0.0557	1	10	
Si	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.673	0.6694	0.6527	0.6972	1	10	
Sm	PREPBLKARL	SOLID	12/27/94	14 11	BJG	-0.101	-0.0775	-0.213	-0.0138	1	10	
Sr	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.008	0.009	0.0071	0.009	1	10	
Ti	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.004	0.0049	0.0009	0.006	1	10	
Tl	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.041	0.1921	-0.1564	0.0882	1	10	
U	PREPBLKARL	SOLID	12/27/94	14 11	BJG	-0.536	-0.4716	-1.0073	-0.1276	1	10	
V	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.002	0.0063	-0.0067	0.0068	1	10	
Zn	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.020	0.0232	0.0185	0.0187	1	10	
Zr	PREPBLKARL	SOLID	12/27/94	14 11	BJG	0.122	0.1289	0.1131	0.1254	1	10	
Ag	S94T000067L	SOLID	12/27/94	14 17	BJG	485.311	502.0866	495.2721	458.5738	0.455	12500	
Al	S94T000067L	SOLID	12/27/94	14 17	BJG	38876.521	38816.22	38587.38	39225.96	0.455	12500	1373
As	S94T000067L	SOLID	12/27/94	14 17	BJG	-105.207	-56.3261	-118.092	-141.204	0.455	12500	
B	S94T000067L	SOLID	12/27/94	14 17	BJG	183.882	224.4293	170.8101	156.4069	0.455	12500	
Ba	S94T000067L	SOLID	12/27/94	14 17	BJG	48.903	65.1286	51.3672	30.2127	0.455	12500	
Be	S94T000067L	SOLID	12/27/94	14 17	BJG	0.479	2.1132	1.9264	-2.6019	0.455	12500	
Bi	S94T000067L	SOLID	12/27/94	14 17	BJG	-299.412	-122.111	-272.528	-503.597	0.455	12500	
Ca	S94T000067L	SOLID	12/27/94	14 17	BJG	1321.681	1549.035	1262.952	1153.055	0.455	12500	2747
Cd	S94T000067L	SOLID	12/27/94	14 17	BJG	79.443	110.9944	86.0964	41.2389	0.455	12500	
Ce	S94T000067L	SOLID	12/27/94	14 17	BJG	-600.284	-134.686	-333.883	-1332.28	0.455	12500	
Co	S94T000067L	SOLID	12/27/94	14 17	BJG	-77.792	-39.8139	-39.5506	-154.012	0.455	12500	
Cr	S94T000067L	SOLID	12/27/94	14 17	BJG	6160.285	6186.015	6129.992	6164.847	0.455	12500	275
Cu	S94T000067L	SOLID	12/27/94	14 17	BJG	-51.472	-25.312	-46.1549	-82.9477	0.455	12500	
Fe	S94T000067L	SOLID	12/27/94	14 17	BJG	1675.943	1745.551	1635.251	1647.028	0.455	12500	1373
K	S94T000067L	SOLID	12/27/94	14 17	BJG	6084992.825	6020992	6081307	6152680	0.455	12500	
La	S94T000067L	SOLID	12/27/94	14 17	BJG	80.670	101.3303	100.5249	40.1543	0.455	12500	
Li	S94T000067L	SOLID	12/27/94	14 17	BJG	-11.546	-3.6273	-3.6211	-27.3887	0.455	12500	
Mg	S94T000067L	SOLID	12/27/94	14 17	BJG	67.772	71.5959	71.5469	60.172	0.455	12500	
Mn	S94T000067L	SOLID	12/27/94	14 17	BJG	565.524	575.1043	563.5481	557.9192	0.455	12500	
Mo	S94T000067L	SOLID	12/27/94	14 17	BJG	161.383	169.7127	166.5891	147.8479	0.455	12500	
Na	S94T000067L	SOLID	12/27/94	14 17	BJG	183580.525	181542	183580.5	185619.1	0.455	12500	
Nd	S94T000067L	SOLID	12/27/94	14 17	BJG	300.557	417.3109	382.2384	102.1219	0.455	12500	
Ni	S94T000067L	SOLID	12/27/94	14 17	BJG	4971.444	4979.589	4979.582	4955.16	0.455	12500	
P	S94T000067L	SOLID	12/27/94	14 17	BJG	3547.228	3656.988	3407.325	3577.369	0.455	12500	
Pb	S94T000067L	SOLID	12/27/94	14 17	BJG	180.490	-15.5083	420.0208	136.9587	0.455	12500	
S	S94T000067L	SOLID	12/27/94	14 17	BJG	2954.891	2977.37	3019.668	2867.636	0.455	12500	
Sb	S94T000067L	SOLID	12/27/94	14 17	BJG	-844.983	-800.561	-764.637	-969.752	0.455	12500	
Se	S94T000067L	SOLID	12/27/94	14 17	BJG	-559.680	-525.128	-507.289	-646.625	0.455	12500	
Si	S94T000067L	SOLID	12/27/94	14 17	BJG	794.228	874.2612	809.4343	698.9876	0.455	12500	
Sm	S94T000067L	SOLID	12/27/94	14 17	BJG	985.530	1758.047	1128.405	70.1395	0.455	12500	
Sr	S94T000067L	SOLID	12/27/94	14 17	BJG	7.881	16.6758	8.7545	-1.7885	0.455	12500	
Ti	S94T000067L	SOLID	12/27/94	14 17	BJG	51.210	73.8229	49.7109	30.0952	0.455	12500	
Tl	S94T000067L	SOLID	12/27/94	14 17	BJG	2299.780	3733.17	2216.306	949.8655	0.455	12500	
U	S94T000067L	SOLID	12/27/94	14 17	BJG	5125.008	7824.94	5826.877	1723.206	0.455	12500	
V	S94T000067L	SOLID	12/27/94	14 17	BJG	50.415	74.2127	45.8979	31.134	0.455	12500	
Zn	S94T000067L	SOLID	12/27/94	14 17	BJG	40.064	50.0005	38.0287	32.1613	0.455	12500	275
Zr	S94T000067L	SOLID	12/27/94	14 17	BJG	129.344	186.2812	142.3646	59.3865	0.455	12500	275
Ag	S94T000067A	SOLID	12/27/94	14 20	BJG	4675.840	4679.966	4670.744	4676.81	0.455	2500	
Al	S94T000067A	SOLID	12/27/94	14 20	BJG	44403.050	44184.56	44496.27	44528.32	0.455	2500	
As	S94T000067A	SOLID	12/27/94	14 20	BJG	5532.518	5518.868	5539.342	5539.344	0.455	2500	
B	S94T000067A	SOLID	12/27/94	14 20	BJG	5533.248	5486.711	5527.935	5585.098	0.455	2500	
Ba	S94T000067A	SOLID	12/27/94	14 20	BJG	5545.270	5501.127	5564.549	5570.134	0.455	2500	
Be	S94T000067A	SOLID	12/27/94	14 20	BJG	5681.906	5649.608	5695.981	5700.129	0.455	2500	
Bi	S94T000067A	SOLID	12/27/94	14 20	BJG	5450.711	5422.215	5389.58	5540.338	0.455	2500	
Ca	S94T000067A	SOLID	12/27/94	14 20	BJG	6559.677	6509.089	6579.214	6590.727	0.455	2500	
Cd	S94T000067A	SOLID	12/27/94	14 20	BJG	5701.596	5667.425	5693.29	5744.074	0.455	2500	
Ce	S94T000067A	SOLID	12/27/94	14 20	BJG	5263.867	5337.696	5202.038	5251.867	0.455	2500	
Co	S94T000067A	SOLID	12/27/94	14 20	BJG	5720.921	5694.047	5717.109	5751.607	0.455	2500	
Cr	S94T000067A	SOLID	12/27/94	14 20	BJG	11889.627	11873.15	11902.77	11892.96	0.455	2500	
Cu	S94T000067A	SOLID	12/27/94	14 20	BJG	5738.318	5690.167	5752.67	5772.119	0.455	2500	
Fe	S94T000067A	SOLID	12/27/94	14 20	BJG	7237.012	7229.877	7288.109	7193.05	0.455	2500	
K	S94T000067A	SOLID	12/27/94	14 20	BJG	5911972.643	5861804	5924746	5949368	0.455	2500	
La	S94T000067A	SOLID	12/27/94	14 20	BJG	5680.099	5637.131	5701.585	5701.58	0.455	2500	
Li	S94T000067A	SOLID	12/27/94	14 20	BJG	5146.887	5103.793	5161.732	5175.136	0.455	2500	
Mg	S94T000067A	SOLID	12/27/94	14 20	BJG	5616.396	5594.607	5623.908	5630.673	0.455	2500	
Mn	S94T000067A	SOLID	12/27/94	14 20	BJG	6222.734	6197.046	6226.238	6244.918	0.455	2500	
Mo	S94T000067A	SOLID	12/27/94	14 20	BJG	5734.623	5708.802	5742.536	5752.531	0.455	2500	
Na	S94T000067A	SOLID	12/27/94	14 20	BJG	183322.299	181927	183720.9	184318.9	0.455	2500	
Nd	S94T000067A	SOLID	12/27/94	14 20	BJG	5876.722	5831.736	5918.9	5879.531	0.455	2500	
Ni	S94T000067A	SOLID	12/27/94	14 20	BJG	10550.633	10524.4	10568	10559.5	0.455	2500	
P	S94T000067A	SOLID	12/27/94	14 20	BJG	8366.818	8467.027	8104.783	8528.645	0.455	2500	
Pb	S94T000067A	SOLID	12/27/94	14 20	BJG	5634.522	5695.991	5589.402	5618.175	0.455	2500	
S	S94T000067A	SOLID	12/27/94	14 20	BJG	7946.873	7969.329	7867.95	8003.34	0.455	2500	
Sb	S94T000067A	SOLID	12/27/94	14 20	BJG	5347.471	5246.047	5388.976	5407.391	0.455	2500	
Se	S94T000067A	SOLID	12/27/94	14 20	BJG	6582.627	6526.078	6635.796	6586.008	0.455	2500	
Si	S94T000067A	SOLID	12/27/94	14 20	BJG	6259.765	6239.549	6266.189	6273.558	0.455	2500	

Sm	S94T000067A	SOLID	12/27/94	14 20	BJG	5276.601	5314.832	5253.57	5261.402	0.455	2500	
Sr	S94T000067A	SOLID	12/27/94	14 20	BJG	5524.363	5483.738	5542.556	5546.794	0.455	2500	
Ti	S94T000067A	SOLID	12/27/94	14 20	BJG	5508.267	5481.466	5521.922	5521.412	0.455	2500	
Tl	S94T000067A	SOLID	12/27/94	14 20	BJG	5342.972	5462.036	5303.608	5263.271	0.455	2500	
U	S94T000067A	SOLID	12/27/94	14 20	BJG	11331.295	11649.21	11156.54	11188.14	0.455	2500	
V	S94T000067A	SOLID	12/27/94	14 20	BJG	5687.898	5659.009	5699.297	5705.388	0.455	2500	
n	S94T000067A	SOLID	12/27/94	14 20	BJG	5705.987	5678.795	5713.365	5725.801	0.455	2500	
Zr	S94T000067A	SOLID	12/27/94	14 20	BJG	5681.694	5655.021	5687.663	5702.399	0.455	2500	
Ag	S94T000067	SOLID	12/27/94	14 22	BJG	509.091	530.3162	507.0345	489.9221	0.455	2500	
Al	S94T000067	SOLID	12/27/94	14 22	BJG	38867.220	38968.8	38918.5	38714.36	0.455	2500	275
As	S94T000067	SOLID	12/27/94	14 22	BJG	31.775	34.2436	39.0293	22.0515	0.455	2500	
B	S94T000067	SOLID	12/27/94	14 22	BJG	109.118	119.5569	101.4383	106.3597	0.455	2500	
Ba	S94T000067	SOLID	12/27/94	14 22	BJG	20.710	20.9976	20.3933	20.7392	0.455	2500	
Be	S94T000067	SOLID	12/27/94	14 22	BJG	3.067	3.5915	3.622	1.9887	0.455	2500	
Bi	S94T000067	SOLID	12/27/94	14 22	BJG	60.410	101.1558	91.4594	-11.385	0.455	2500	
Ca	S94T000067	SOLID	12/27/94	14 22	BJG	808.127	813.5925	809.057	801.7305	0.455	2500	549.
Cd	S94T000067	SOLID	12/27/94	14 22	BJG	27.296	26.9582	29.9494	24.9801	0.455	2500	
Ce	S94T000067	SOLID	12/27/94	14 22	BJG	-110.667	-170.551	-105.642	-55.8076	0.455	2500	
Co	S94T000067	SOLID	12/27/94	14 22	BJG	3.347	3.3903	3.3453	3.3068	0.455	2500	
Cr	S94T000067	SOLID	12/27/94	14 22	BJG	6232.532	6243.032	6240.406	6214.158	0.455	2500	54.9
Cu	S94T000067	SOLID	12/27/94	14 22	BJG	12.315	12.147	12.9514	11.8459	0.455	2500	
Fe	S94T000067	SOLID	12/27/94	14 22	BJG	1557.680	1566.219	1566.123	1540.698	0.455	2500	
K	S94T000067	SOLID	12/27/94	14 22	BJG	5833786.071	5864471	5839500	5797387	0.455	2500	
La	S94T000067	SOLID	12/27/94	14 22	BJG	43.496	43.3776	49.3818	37.7282	0.455	2500	
Li	S94T000067	SOLID	12/27/94	14 22	BJG	5.476	7.062	5.7639	3.6013	0.455	2500	
Mg	S94T000067	SOLID	12/27/94	14 22	BJG	54.124	54.8683	54.1246	53.3795	0.455	2500	
Mn	S94T000067	SOLID	12/27/94	14 22	BJG	574.338	573.5748	577.0592	572.381	0.455	2500	
Mo	S94T000067	SOLID	12/27/94	14 22	BJG	103.702	107.0335	107.0335	97.0382	0.455	2500	
Na	S94T000067	SOLID	12/27/94	14 22	BJG	176722.032	177686.9	176857.9	175621.2	0.455	2500	549
Nd	S94T000067	SOLID	12/27/94	14 22	BJG	63.940	61.8691	72.9504	56.9998	0.455	2500	
Ni	S94T000067	SOLID	12/27/94	14 22	BJG	4961.585	4932.438	4954.294	4998.024	0.455	2500	110
P	S94T000067	SOLID	12/27/94	14 22	BJG	3362.629	3275.448	3325.429	3487.01	0.455	2500	
Pb	S94T000067	SOLID	12/27/94	14 22	BJG	223.648	217.2562	212.6304	241.0581	0.455	2500	
S	S94T000067	SOLID	12/27/94	14 22	BJG	2583.208	2501.397	2626.208	2622.019	0.455	2500	
Sb	S94T000067	SOLID	12/27/94	14 22	BJG	-64.687	-94.7084	-107.862	8.5107	0.455	2500	
Se	S94T000067	SOLID	12/27/94	14 22	BJG	298.277	231.8037	396.7205	266.3082	0.455	2500	
Si	S94T000067	SOLID	12/27/94	14 22	BJG	644.296	624.1387	648.7904	659.9579	0.455	2500	
Sm	S94T000067	SOLID	12/27/94	14 22	BJG	-119.305	-172.306	-138.132	-47.4785	0.455	2500	
Sr	S94T000067	SOLID	12/27/94	14 22	BJG	7.767	8.1241	7.59	7.5866	0.455	2500	
Ti	S94T000067	SOLID	12/27/94	14 22	BJG	19.024	18.4001	19.0312	19.6408	0.455	2500	
Tl	S94T000067	SOLID	12/27/94	14 22	BJG	-133.258	-254.977	-87.8331	-56.964	0.455	2500	
U	S94T000067	SOLID	12/27/94	14 22	BJG	299.595	-5.4672	320.7548	583.4987	0.455	2500	
V	S94T000067	SOLID	12/27/94	14 22	BJG	5.370	6.5828	4.2499	5.2772	0.455	2500	54.9
Zn	S94T000067	SOLID	12/27/94	14 22	BJG	53.930	54.4496	56.7603	50.581	0.455	2500	
r	S94T000067	SOLID	12/27/94	14 22	BJG	30.797	25.5295	29.4634	37.3985	0.455	2500	54.9
g	S94T000067D	SOLID	12/27/94	14 24	BJG	453.171	483.7398	449.0841	426.69	0.4741	2500	
Al	S94T000067D	SOLID	12/27/94	14 24	BJG	36146.767	35993.03	36302.43	36144.84	0.4741	2500	
As	S94T000067D	SOLID	12/27/94	14 24	BJG	25.966	29.1965	29.4675	19.2354	0.4741	2500	
B	S94T000067D	SOLID	12/27/94	14 24	BJG	91.049	84.9797	92.8796	95.2867	0.4741	2500	
Ba	S94T000067D	SOLID	12/27/94	14 24	BJG	17.039	17.3012	15.8894	17.927	0.4741	2500	
Be	S94T000067D	SOLID	12/27/94	14 24	BJG	0.311	0.317	0.2858	0.3293	0.4741	2500	
Bi	S94T000067D	SOLID	12/27/94	14 24	BJG	-60.909	-64.6314	-59.1657	-58.9311	0.4741	2500	
Ca	S94T000067D	SOLID	12/27/94	14 24	BJG	343.420	342.5275	345.2061	342.5275	0.4741	2500	
Cd	S94T000067D	SOLID	12/27/94	14 24	BJG	26.220	27.8156	30.6775	20.1683	0.4741	2500	
Ce	S94T000067D	SOLID	12/27/94	14 24	BJG	-205.506	-192.765	-259.846	-163.908	0.4741	2500	
Co	S94T000067D	SOLID	12/27/94	14 24	BJG	-7.950	-7.9565	-7.9217	-7.9731	0.4741	2500	
Cr	S94T000067D	SOLID	12/27/94	14 24	BJG	5074.788	5051.523	5108.867	5063.975	0.4741	2500	
Cu	S94T000067D	SOLID	12/27/94	14 24	BJG	6.285	6.7185	5.9577	6.1792	0.4741	2500	
Fe	S94T000067D	SOLID	12/27/94	14 24	BJG	1361.752	1349.907	1344.938	1390.411	0.4741	2500	
K	S94T000067D	SOLID	12/27/94	14 24	BJG	5105006.931	5093104	5126549	5095368	0.4741	2500	
La	S94T000067D	SOLID	12/27/94	14 24	BJG	26.759	24.9036	13.4929	41.8808	0.4741	2500	
Li	S94T000067D	SOLID	12/27/94	14 24	BJG	5.531	4.7011	5.117	6.7754	0.4741	2500	
Mg	S94T000067D	SOLID	12/27/94	14 24	BJG	41.850	41.8514	41.8432	41.8546	0.4741	2500	
Mn	S94T000067D	SOLID	12/27/94	14 24	BJG	475.423	470.9407	481.0376	474.2894	0.4741	2500	
Mo	S94T000067D	SOLID	12/27/94	14 24	BJG	72.345	69.7467	74.543	72.7444	0.4741	2500	
Na	S94T000067D	SOLID	12/27/94	14 24	BJG	165715.742	165089.7	166459.2	165598.4	0.4741	2500	
Nd	S94T000067D	SOLID	12/27/94	14 24	BJG	83.451	46.6189	123.0129	80.7197	0.4741	2500	
Ni	S94T000067D	SOLID	12/27/94	14 24	BJG	5869.442	5838.39	5939.717	5830.218	0.4741	2500	
P	S94T000067D	SOLID	12/27/94	14 24	BJG	2622.211	2532.955	2688.402	2645.277	0.4741	2500	
Pb	S94T000067D	SOLID	12/27/94	14 24	BJG	44.360	48.2039	92.2237	-7.3478	0.4741	2500	
S	S94T000067D	SOLID	12/27/94	14 24	BJG	2246.148	2153.342	2307.914	2277.189	0.4741	2500	
Sb	S94T000067D	SOLID	12/27/94	14 24	BJG	-25.125	-98.2079	-50.0597	72.8917	0.4741	2500	
Se	S94T000067D	SOLID	12/27/94	14 24	BJG	304.828	330.6279	376.884	206.9725	0.4741	2500	
Si	S94T000067D	SOLID	12/27/94	14 24	BJG	603.780	596.3131	598.526	616.501	0.4741	2500	
Sm	S94T000067D	SOLID	12/27/94	14 24	BJG	-19.498	-22.4534	-78.2094	42.1701	0.4741	2500	
Sr	S94T000067D	SOLID	12/27/94	14 24	BJG	4.062	4.7386	3.726	3.7199	0.4741	2500	
Ti	S94T000067D	SOLID	12/27/94	14 24	BJG	39.818	39.3405	39.2277	40.8845	0.4741	2500	
Tl	S94T000067D	SOLID	12/27/94	14 24	BJG	129.027	167.2965	22.2152	197.5703	0.4741	2500	
U	S94T000067D	SOLID	12/27/94	14 24	BJG	486.788	554.1444	220.446	685.7735	0.4741	2500	
V	S94T000067D	SOLID	12/27/94	14 24	BJG	2.373	7.0763	-3.5276	3.5703	0.4741	2500	
Zn	S94T000067D	SOLID	12/27/94	14 24	BJG	14.057	14.3136	14.2819	13.5743	0.4741	2500	
Zr	S94T000067D	SOLID	12/27/94	14 24	BJG	134.854	136.6542	131.2979	136.6085	0.4741	2500	
g	ICSA	LIQ	12/27/94	14 28	BJG	0.011	0.011	0.0098	0.0109	1	1	
I	ICSA	LIQ	12/27/94	14 28	BJG	198.901	196.9814	200.6995	199.0222	1	1	
As	ICSA	LIQ	12/27/94	14 28	BJG	0.016	0.0131	0.0211	0.0144	1	1	

B	ICSA	LIQ	12/27/94	14 28	BJG	-0.026	-0.0263	-0.0247	-0.0255	1	1
Ba	ICSA	LIQ	12/27/94	14 28	BJG	0.000	0.0005	-0.0001	0.0002	1	1
Be	ICSA	LIQ	12/27/94	14 28	BJG	0.001	0.0016	0.0013	0.0014	1	1
Bi	ICSA	LIQ	12/27/94	14 28	BJG	-0.002	0.0088	-0.0014	-0.0136	1	1
Ca	ICSA	LIQ	12/27/94	14 28	BJG	18.987	18.8097	19.1357	19.0169	1	1
Cd	ICSA	LIQ	12/27/94	14 28	BJG	0.006	0.0055	0.0062	0.0062	1	1
Ce	ICSA	LIQ	12/27/94	14 28	BJG	0.002	0.0203	-0.0135	0.0003	1	1
Co	ICSA	LIQ	12/27/94	14 28	BJG	0.010	0.0111	0.0091	0.0091	1	1
Cr	ICSA	LIQ	12/27/94	14 28	BJG	0.000	0.0024	-0.0002	-0.0009	1	1
Cu	ICSA	LIQ	12/27/94	14 28	BJG	-0.009	-0.0081	-0.0095	-0.0087	1	1
Fe	ICSA	LIQ	12/27/94	14 28	BJG	150.614	149.357	151.7878	150.696	1	1
K	ICSA	LIQ	12/27/94	14 28	BJG	1.417	1.597	1.3775	1.275	1	1
La	ICSA	LIQ	12/27/94	14 28	BJG	0.014	0.0162	0.0112	0.0143	1	1
Li	ICSA	LIQ	12/27/94	14 28	BJG	-0.000	0	-0.0008	-0.0004	1	1
Mg	ICSA	LIQ	12/27/94	14 28	BJG	19.109	18.9594	19.214	19.1537	1	1
Mn	ICSA	LIQ	12/27/94	14 28	BJG	0.012	0.0118	0.0122	0.0121	1	1
Mo	ICSA	LIQ	12/27/94	14 28	BJG	0.004	0.0028	0.0052	0.0053	1	1
Na	ICSA	LIQ	12/27/94	14 28	BJG	193.275	190.7387	195.2379	193.8478	1	1
Nd	ICSA	LIQ	12/27/94	14 28	BJG	-0.004	0.0004	-0.0089	-0.0038	1	1
Ni	ICSA	LIQ	12/27/94	14 28	BJG	0.003	0.0043	0.0034	0.0025	1	1
P	ICSA	LIQ	12/27/94	14 28	BJG	0.043	0.0357	0.0389	0.053	1	1
Pb	ICSA	LIQ	12/27/94	14 28	BJG	-0.002	0.0067	-0.007	-0.0049	1	1
S	ICSA	LIQ	12/27/94	14 28	BJG	0.180	0.1839	0.1686	0.1866	1	1
Sb	ICSA	LIQ	12/27/94	14 28	BJG	-0.033	0.0016	-0.0366	-0.0647	1	1
Se	ICSA	LIQ	12/27/94	14 28	BJG	0.038	0.0279	0.0335	0.054	1	1
Si	ICSA	LIQ	12/27/94	14 28	BJG	0.060	0.0608	0.0581	0.0622	1	1
Sm	ICSA	LIQ	12/27/94	14 28	BJG	0.005	0.0238	-0.0155	0.0074	1	1
Sr	ICSA	LIQ	12/27/94	14 28	BJG	0.000	0.0004	0.0001	0.0003	1	1
Ti	ICSA	LIQ	12/27/94	14 28	BJG	0.001	0.0009	0.0003	0.0004	1	1
Tl	ICSA	LIQ	12/27/94	14 28	BJG	0.003	0.019	-0.0228	0.0128	1	1
U	ICSA	LIQ	12/27/94	14 28	BJG	0.100	0.1676	0.0316	0.1006	1	1
V	ICSA	LIQ	12/27/94	14 28	BJG	-0.002	-0.0017	-0.0029	-0.0018	1	1
Zn	ICSA	LIQ	12/27/94	14 28	BJG	0.007	0.0071	0.0074	0.0073	1	1
Zr	ICSA	LIQ	12/27/94	14 28	BJG	-0.002	-0.0009	-0.0032	-0.0012	1	1
Ag	ICSAB	LIQ	12/27/94	14 30	BJG	0.789	0.7858	0.7947	0.785	1	1
Al	ICSAB	LIQ	12/27/94	14 30	BJG	200.726	199.9618	201.6146	200.6026	1	1
As	ICSAB	LIQ	12/27/94	14 30	BJG	0.024	0.0194	0.0287	0.0225	1	1
B	ICSAB	LIQ	12/27/94	14 30	BJG	-0.026	-0.0263	-0.0254	-0.0261	1	1
Ba	ICSAB	LIQ	12/27/94	14 30	BJG	0.501	0.4981	0.503	0.5005	1	1
Be	ICSAB	LIQ	12/27/94	14 30	BJG	0.511	0.5089	0.5133	0.5103	1	1
Bi	ICSAB	LIQ	12/27/94	14 30	BJG	-0.007	-0.0106	-0.0063	-0.0052	1	1
Ca	ICSAB	LIQ	12/27/94	14 30	BJG	19.072	18.9724	19.139	19.106	1	1
Cd	ICSAB	LIQ	12/27/94	14 30	BJG	1.019	1.0133	1.0247	1.0185	1	1
Ce	ICSAB	LIQ	12/27/94	14 30	BJG	-0.015	-0.0123	-0.0168	-0.0162	1	1
Co	ICSAB	LIQ	12/27/94	14 30	BJG	0.524	0.5239	0.5281	0.5197	1	1
Cr	ICSAB	LIQ	12/27/94	14 30	BJG	0.507	0.5026	0.51	0.5083	1	1
Cu	ICSAB	LIQ	12/27/94	14 30	BJG	0.504	0.5014	0.5071	0.5047	1	1
Fe	ICSAB	LIQ	12/27/94	14 30	BJG	150.278	149.555	150.8873	150.3929	1	1
K	ICSAB	LIQ	12/27/94	14 30	BJG	0.825	0.8481	0.814	0.814	1	1
La	ICSAB	LIQ	12/27/94	14 30	BJG	0.014	0.0129	0.0153	0.0142	1	1
Li	ICSAB	LIQ	12/27/94	14 30	BJG	0.980	0.9769	0.9848	0.9784	1	1
Mg	ICSAB	LIQ	12/27/94	14 30	BJG	19.268	19.1701	19.3422	19.2914	1	1
Mn	ICSAB	LIQ	12/27/94	14 30	BJG	0.518	0.5145	0.5188	0.5197	1	1
Mo	ICSAB	LIQ	12/27/94	14 30	BJG	0.003	0.0044	0.0023	0.0027	1	1
Na	ICSAB	LIQ	12/27/94	14 30	BJG	193.722	193.1008	194.7061	193.3605	1	1
Nd	ICSAB	LIQ	12/27/94	14 30	BJG	0.011	0.0084	0.0208	0.0047	1	1
Ni	ICSAB	LIQ	12/27/94	14 30	BJG	0.999	0.9931	1.0023	1.0016	1	1
P	ICSAB	LIQ	12/27/94	14 30	BJG	0.044	0.0334	0.0426	0.0547	1	1
Pb	ICSAB	LIQ	12/27/94	14 30	BJG	1.002	0.9957	1.013	0.9983	1	1
S	ICSAB	LIQ	12/27/94	14 30	BJG	0.173	0.1639	0.1717	0.1826	1	1
Sb	ICSAB	LIQ	12/27/94	14 30	BJG	-0.000	0.0076	-0.0139	0.0052	1	1
Se	ICSAB	LIQ	12/27/94	14 30	BJG	0.079	0.0786	0.074	0.0829	1	1
Si	ICSAB	LIQ	12/27/94	14 30	BJG	0.049	0.0476	0.0505	0.0484	1	1
Sm	ICSAB	LIQ	12/27/94	14 30	BJG	-0.016	-0.0072	-0.0181	-0.0217	1	1
Sr	ICSAB	LIQ	12/27/94	14 30	BJG	0.000	0.0003	0.0002	0.0002	1	1
Ti	ICSAB	LIQ	12/27/94	14 30	BJG	-0.000	0.0002	-0.0001	-0.0003	1	1
Tl	ICSAB	LIQ	12/27/94	14 30	BJG	-0.045	-0.0428	-0.0464	-0.0452	1	1
U	ICSAB	LIQ	12/27/94	14 30	BJG	-0.022	-0.0168	-0.0168	-0.0321	1	1
V	ICSAB	LIQ	12/27/94	14 30	BJG	0.503	0.4994	0.506	0.5045	1	1
Zn	ICSAB	LIQ	12/27/94	14 30	BJG	1.009	1.0047	1.0149	1.0088	1	1
Zr	ICSAB	LIQ	12/27/94	14 30	BJG	-0.003	-0.0025	-0.0033	-0.0038	1	1
Ag	CCV_2	LIQ	12/27/94	14 36	BJG	4.649	4.5537	4.6172	4.7749	1	1
Al	CCV_2	LIQ	12/27/94	14 36	BJG	4.990	4.9709	4.9677	5.0305	1	1
As	CCV_2	LIQ	12/27/94	14 36	BJG	4.967	4.9448	4.9351	5.0197	1	1
B	CCV_2	LIQ	12/27/94	14 36	BJG	5.049	5.0361	5.0176	5.0931	1	1
Ba	CCV_2	LIQ	12/27/94	14 36	BJG	4.933	4.9128	4.8972	4.9897	1	1
Be	CCV_2	LIQ	12/27/94	14 36	BJG	5.180	5.1579	5.1477	5.2358	1	1
Bi	CCV_2	LIQ	12/27/94	14 36	BJG	4.917	4.8877	4.8874	4.9761	1	1
Ca	CCV_2	LIQ	12/27/94	14 36	BJG	5.094	5.0776	5.0593	5.1451	1	1
Cd	CCV_2	LIQ	12/27/94	14 36	BJG	5.100	5.078	5.0702	5.151	1	1
Ce	CCV_2	LIQ	12/27/94	14 36	BJG	4.830	4.7917	4.8074	4.8906	1	1
Co	CCV_2	LIQ	12/27/94	14 36	BJG	5.138	5.1123	5.1144	5.1876	1	1
Cr	CCV_2	LIQ	12/27/94	14 36	BJG	5.071	5.0412	5.0567	5.1151	1	1
Cu	CCV_2	LIQ	12/27/94	14 36	BJG	5.133	5.1149	5.0995	5.1848	1	1
Fe	CCV_2	LIQ	12/27/94	14 36	BJG	5.106	5.084	5.0955	5.1396	1	1

K	CCV_2	LIQ	12/27/94	14 36	BJG	5.705	5.744	5.6708	5.7001	1	1
La	CCV_2	LIQ	12/27/94	14 36	BJG	4.994	4.9728	4.9642	5.0445	1	1
Li	CCV_2	LIQ	12/27/94	14 36	BJG	4.997	4.9926	4.9405	5.0564	1	1
Mg	CCV_2	LIQ	12/27/94	14 36	BJG	5.009	4.9826	4.9886	5.0552	1	1
Mn	CCV_2	LIQ	12/27/94	14 36	BJG	5.058	5.0347	5.0404	5.0997	1	1
'o	CCV_2	LIQ	12/27/94	14 36	BJG	5.036	4.9885	5.015	5.1033	1	1
ı	CCV_2	LIQ	12/27/94	14 36	BJG	5.117	5.1191	5.0697	5.1636	1	1
Nd	CCV_2	LIQ	12/27/94	14 36	BJG	5.127	5.119	5.0936	5.1698	1	1
Ni	CCV_2	LIQ	12/27/94	14 36	BJG	5.066	5.0435	5.0505	5.1045	1	1
P	CCV_2	LIQ	12/27/94	14 36	BJG	4.837	4.8104	4.8723	4.8275	1	1
Pb	CCV_2	LIQ	12/27/94	14 36	BJG	5.065	5.037	5.0302	5.1266	1	1
S	CCV_2	LIQ	12/27/94	14 36	BJG	4.909	4.882	4.9032	4.9413	1	1
Sb	CCV_2	LIQ	12/27/94	14 36	BJG	4.762	4.7054	4.7065	4.8754	1	1
Se	CCV_2	LIQ	12/27/94	14 36	BJG	5.695	5.6524	5.6598	5.7725	1	1
Si	CCV_2	LIQ	12/27/94	14 36	BJG	4.857	4.8302	4.8341	4.9052	1	1
Sm	CCV_2	LIQ	12/27/94	14 36	BJG	4.859	4.829	4.823	4.9244	1	1
Sr	CCV_2	LIQ	12/27/94	14 36	BJG	4.909	4.8876	4.8747	4.964	1	1
Ti	CCV_2	LIQ	12/27/94	14 36	BJG	4.881	4.855	4.8538	4.9346	1	1
Tl	CCV_2	LIQ	12/27/94	14 36	BJG	4.904	4.8836	4.9128	4.9165	1	1
U	CCV_2	LIQ	12/27/94	14 36	BJG	10.069	10.0121	10.0328	10.163	1	1
V	CCV_2	LIQ	12/27/94	14 36	BJG	5.059	5.0377	5.0293	5.1107	1	1
Zn	CCV_2	LIQ	12/27/94	14 36	BJG	5.202	5.1818	5.1827	5.2413	1	1
Zr	CCV_2	LIQ	12/27/94	14 36	BJG	4.994	4.9715	4.9667	5.0447	1	1
Ag	CCB_2	LIQ	12/27/94	14 39	BJG	0.304	0.3081	0.3112	0.2934	1	1
Al	CCB_2	LIQ	12/27/94	14 39	BJG	-0.003	-0.0012	-0.0103	0.0037	1	1
As	CCB_2	LIQ	12/27/94	14 39	BJG	-0.003	-0.001	0.0004	-0.0096	1	1
B	CCB_2	LIQ	12/27/94	14 39	BJG	0.007	0.0073	0.0074	0.0064	1	1
Ba	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	0.0027	0.0018	0.002	1	1
Be	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	0.0023	0.0017	0.0016	1	1
Bi	CCB_2	LIQ	12/27/94	14 39	BJG	-0.026	-0.036	-0.0194	-0.0215	1	1
Ca	CCB_2	LIQ	12/27/94	14 39	BJG	0.010	0.0152	0.0086	0.0053	1	1
Cd	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0037	0.0022	0.0024	1	1
Ce	CCB_2	LIQ	12/27/94	14 39	BJG	-0.066	-0.0677	-0.0749	-0.0558	1	1
Co	CCB_2	LIQ	12/27/94	14 39	BJG	-0.001	0.0007	-0.0014	-0.0014	1	1
Cr	CCB_2	LIQ	12/27/94	14 39	BJG	0.000	0.0005	0.0004	-0.0004	1	1
Cu	CCB_2	LIQ	12/27/94	14 39	BJG	-0.000	0.0005	-0.0009	0.0003	1	1
Fe	CCB_2	LIQ	12/27/94	14 39	BJG	0.005	0.0071	0.0064	0.0019	1	1
K	CCB_2	LIQ	12/27/94	14 39	BJG	0.524	0.5212	0.4968	0.5554	1	1
La	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0025	0.0014	0.0036	1	1
Li	CCB_2	LIQ	12/27/94	14 39	BJG	0.001	0.0017	0.0009	0.0012	1	1
Mg	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0037	0.0029	0.0027	1	1
Mn	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	0.0021	0.0014	0.0012	1	1
Mo	CCB_2	LIQ	12/27/94	14 39	BJG	0.006	0.0069	0.0074	0.0045	1	1
'a	CCB_2	LIQ	12/27/94	14 39	BJG	0.131	0.1303	0.1253	0.1377	1	1
d	CCB_2	LIQ	12/27/94	14 39	BJG	0.011	0.0044	0.0154	0.0123	1	1
Ni	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0015	0.0028	0.0035	1	1
P	CCB_2	LIQ	12/27/94	14 39	BJG	0.005	-0.0068	0.0136	0.0094	1	1
Pb	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0075	-0.0007	0.0022	1	1
S	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	0.0027	-0.0028	0.0075	1	1
Sb	CCB_2	LIQ	12/27/94	14 39	BJG	-0.000	-0.0261	-0.0182	0.0443	1	1
Se	CCB_2	LIQ	12/27/94	14 39	BJG	-0.021	-0.0097	-0.0288	-0.025	1	1
Si	CCB_2	LIQ	12/27/94	14 39	BJG	0.000	-0.0004	-0.0014	0.0026	1	1
Sm	CCB_2	LIQ	12/27/94	14 39	BJG	-0.001	-0.0036	-0.0143	0.0142	1	1
Sr	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	0.0023	0.0016	0.0017	1	1
Ti	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0033	0.0025	0.003	1	1
Tl	CCB_2	LIQ	12/27/94	14 39	BJG	0.013	0.0147	-0.0085	0.0318	1	1
U	CCB_2	LIQ	12/27/94	14 39	BJG	0.002	-0.0127	-0.051	0.0697	1	1
V	CCB_2	LIQ	12/27/94	14 39	BJG	0.001	0.0016	0.0014	0.0009	1	1
Zn	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0033	0.0034	0.0029	1	1
Zr	CCB_2	LIQ	12/27/94	14 39	BJG	0.003	0.0037	0.001	0.0049	1	1

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SY103

LABCORE Data Entry Template for Worklist# 281

Analyst: B.J. GOECKE **Instrument:** ICP01 _____ **Method:** LA-505-151 **Book#** 37B4YB SSTS
REV. MOD. D-1

Worklist Comment: ICP Fusion-02 SY-103 #299,300

Seq	Type	Sample#	R A	Test	Matrix	Analytes Requested
1	ICV			@ICP-QC	QC	
2	ICB			@ICP-QC	QC	WHC-SD-WM-DP-074, REV. 0
3	ICSA			@ICP-QC	QC	
4	ICSAB			@ICP-QC	QC	
5	PREPBLKARL			@ICP-F02	SOLID	
6	SAMPLE	S94T000299	0 F	@ICP-F02	SOLID	AL-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , K-F-01 , NA-F-01 , NI-F-01 , ZN-F-01 , ZR-F-01
7	DUP	S94T000299	0 F	@ICP-F02	SOLID	
8	CCV			@ICP-QC	QC	
9	CCB			@ICP-QC	QC	
10	SAMPLE	S94T000300	0 F	@ICP-F02	SOLID	AL-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , K-F-01 , NA-F-01 , NI-F-01 , ZN-F-01 , ZR-F-01
11	DUP	S94T000300	0 F	@ICP-F02	SOLID	
12	ICSA			@ICP-QC	QC	
13	ICSAB			@ICP-QC	QC	
14	CCV			@ICP-QC	QC	
15	CCB			@ICP-QC	QC	

Final page for worklist # 281

[signature] 12-22-94
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments: (>10%) Dup failures for Cr (299), Al (300), Fe (300), Cr (300)

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Cr	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	11069.59	11058.25	11229.88	11119.243	0.6327	2500
Cu	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4118.982	4089.057	4168.941	4125.660	0.6327	2500
Fe	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	5971.911	5935.008	5982.615	5963.178	0.6327	2500
K	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	5618973	5568398	5667404	5618258.322	0.6327	2500
La	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4078.602	4039.616	4126.48	4081.566	0.6327	2500
Li	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	3733.67	3695.004	3767.377	3732.017	0.6327	2500
Mg	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4085.068	4064.584	4133.609	4094.420	0.6327	2500
Mn	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4701.464	4677.904	4756.111	4711.826	0.6327	2500
Mo	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4187.264	4186.368	4267.903	4213.845	0.6327	2500
Na	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	164388	162951.3	166050.5	164463.273	0.6327	2500
Nd	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4139.707	4094.416	4185.931	4140.018	0.6327	2500
Ni	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4704.5	4724.585	4771.382	4733.489	0.6327	2500
P	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	6866.34	6854.481	6827.587	6849.469	0.6327	2500
Pb	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4136.755	4100.753	4231.003	4156.170	0.6327	2500
S	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	6530.099	6462.087	6483.326	6491.837	0.6327	2500
Sb	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	3830.962	3973.898	4015.286	3940.049	0.6327	2500
Se	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4836.057	4704.736	4663.029	4734.607	0.6327	2500
Si	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4413.199	4402.281	4458.188	4424.556	0.6327	2500
Sm	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4044.533	4092.635	4055.987	4064.385	0.6327	2500
Sr	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	3974.892	3941.947	4027.438	3981.426	0.6327	2500
Ti	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	3971.975	3950.744	4025.056	3982.592	0.6327	2500
Tl	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	3992.158	4084.608	3873.724	3983.497	0.6327	2500
U	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	8597.507	9022.812	8674.169	8764.829	0.6327	2500
V	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4107.742	4083.492	4149.548	4113.594	0.6327	2500
Zn	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4100.569	4080.47	4152.948	4111.329	0.6327	2500
Zr	S94T000300A	SOLID	ZZZ	12/22/94	13 47	BJG	4064.867	4052.399	4113.819	4076.961	0.6327	2500
Ag	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	164.1805	160.2054	149.4426	157.943	0.6327	2500
Al	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	34182.8	34080.53	34711.29	34324.874	0.6327	2500
As	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	32.6465	26.9851	23.8456	27.826	0.6327	2500
B	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	88.6619	92.0055	90.4903	90.386	0.6327	2500
Ba	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	20.5671	21.536	17.8899	19.998	0.6327	2500
Be	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	3.8971	4.5184	2.6312	3.682	0.6327	2500
Bi	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	99.0183	150.756	54.0403	101.272	0.6327	2500
Ca	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	299.9484	290.381	292.1911	294.174	0.6327	2500
Cd	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	22.943	28.6353	19.3755	23.651	0.6327	2500
Ce	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	-25.6331	-25.6302	-167.697	-72.987	0.6327	2500
Co	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	-0.146	-0.1681	-0.0698	-0.128	0.6327	2500
Cr	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	7019.026	6990.261	7095.424	7034.903	0.6327	2500
Cu	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	10.5516	11.1885	5.7808	9.174	0.6327	2500
Fe	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	1915.011	1924.156	1925.912	1921.693	0.6327	2500
K	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	5639518	5612502	5724712	5658910.675	0.6327	2500
La	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	42.6599	55.7764	38.0818	45.506	0.6327	2500
Li	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	7.7088	9.3606	3.4146	6.828	0.6327	2500
Mg	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	49.6343	50.1777	48.5413	49.451	0.6327	2500
Mn	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	658.9355	648.8364	658.9638	655.579	0.6327	2500
Mo	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	89.0018	86.7618	84.5218	86.762	0.6327	2500
Na	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	160416.5	159790.5	163197.6	161134.893	0.6327	2500
Nd	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	163.1669	182.8887	119.3598	155.138	0.6327	2500
Ni	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	649.9113	649.9335	662.0655	653.970	0.6327	2500
P	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	2773.344	2757.778	2727.342	2752.821	0.6327	2500
Pb	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	16.0951	36.4908	17.1572	23.248	0.6327	2500
S	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	2365.534	2373.4	2349.793	2362.909	0.6327	2500
Sb	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	48.9802	-135.973	-53.0347	-46.676	0.6327	2500
Se	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	417.5895	375.0274	460.2502	417.622	0.6327	2500
Si	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	433.4799	425.0959	407.0175	421.864	0.6327	2500
Sm	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	14.9815	64.5789	-145.23	-21.890	0.6327	2500
Sr	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	6.1349	6.1327	4.9661	5.745	0.6327	2500
Ti	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	6.9677	6.6428	2.9524	5.521	0.6327	2500
Tl	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	-4.7221	35.8332	-202.715	-57.201	0.6327	2500
U	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	663.9585	831.9553	77.2413	524.385	0.6327	2500
V	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	7.1361	8.7242	3.4528	6.438	0.6327	2500
Zn	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	10.2384	9.9501	7.6137	9.267	0.6327	2500
Zr	S94T000300	SOLID	S94T000300	12/22/94	13 50	BJG	7.3382	13.7946	-0.461	6.891	0.6327	2500
Ag	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	100.1124	106.2425	84.4303	96.928	0.6383	2500
Al	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	26099.02	25494.12	26582.06	26058.400	0.6383	2500
As	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	20.564	20.5104	11.5813	17.552	0.6383	2500
B	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	68.9081	75.5256	64.1196	69.518	0.6383	2500
Ba	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	21.64	25.9949	19.3345	22.323	0.6383	2500
Be	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	2.73	3.4305	1.4702	2.544	0.6383	2500
Bi	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	146.9842	228.9573	45.3749	140.439	0.6383	2500
Ca	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	241.1855	228.6264	237.5972	235.803	0.6383	2500
Cd	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	22.8204	27.0666	21.3963	23.761	0.6383	2500
Ce	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	234.4421	407.6408	97.3051	246.463	0.6383	2500
Co	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	-16.5798	-8.5676	-8.3373	-11.162	0.6383	2500
Cr	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	5996.215	5886.258	6113.415	5999.296	0.6383	2500
Cu	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	10.8529	20.3548	8.3041	13.171	0.6383	2500
Fe	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	1472.697	1476.936	1500.226	1483.286	0.6383	2500
K	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	6063758	5894283	6174632	6044224.351	0.6383	2500
La	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	46.8022	51.5357	50.8695	49.736	0.6383	2500
Li	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	9.9319	15.8247	5.3479	10.368	0.6383	2500
Mg	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	33.7133	32.6704	32.6285	33.004	0.6383	2500
Mn	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	558.9893	548.1002	565.6856	557.592	0.6383	2500
Mo	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	70.9024	70.9024	62.0211	67.942	0.6383	2500
Na	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	120405.5	117089.3	123070.6	120188.468	0.6383	2500
Nd	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	53.8886	138.3661	50.3769	80.877	0.6383	2500
Ni	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	923.1258	967.1646	906.6942	932.328	0.6383	2500
P	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	2392.252	2207.624	2250.887	2283.588	0.6383	2500
Pb	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	198.3086	123.503	94.2465	138.686	0.6383	2500
[illegible]	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	1890.158	1801.398	1963.717	1885.091	0.6383	2500
Sb	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	-113.619	52.9604	-18.5204	-26.460	0.6383	2500
Se	S94T000300D	SOLID	S94T000300D	12/22/94	13 54	BJG	321.0424	500.7663	291.859	371.223	0.6383	2500

V	PREPBLKARL	SOLID	PREPBLKARL	12/22/94	13 14	BJG	0.0208	0.0372	0.0294	0.029	1	10
Zn	PREPBLKARL	SOLID	PREPBLKARL	12/22/94	13 14	BJG	-0.0196	-0.0224	-0.024	-0.022	1	10
Zr	PREPBLKARL	SOLID	PREPBLKARL	12/22/94	13 14	BJG	0.0693	0.0873	0.0458	0.067	1	10
Ag	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	41.077	22.1428	10.1864	24.469	0.4362	12500
Al	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	13624	13629.48	13555.66	13603.049	0.4362	12500
As	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	190.6402	178.6842	49.1073	139.477	0.4362	12500
B	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	126.3897	161.4753	172.4607	153.442	0.4362	12500
Ba	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	27.1074	15.6542	15.6031	19.455	0.4362	12500
Be	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	10.3173	10.1004	10.054	10.157	0.4362	12500
Bi	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	656.6409	915.2735	602.1497	724.688	0.4362	12500
Ca	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	211.9089	213.7842	211.9089	212.534	0.4362	12500
Cd	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	60.1493	54.9777	70.4515	61.860	0.4362	12500
Ce	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	1128.032	599.5597	494.0154	740.536	0.4362	12500
Co	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-0.2128	0.0929	-59.5389	-19.886	0.4362	12500
Cr	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	206.1175	147.9688	143.9893	166.025	0.4362	12500
Cu	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	72.271	52.4626	55.3481	60.027	0.4362	12500
Fe	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	347.9964	209.7665	193.2434	250.335	0.4362	12500
K	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	8228427	8368997	8371124	8322849.386	0.4362	12500
La	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-73.2457	-105.728	-74.3805	-84.451	0.4362	12500
Li	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	84.6798	67.9103	58.3251	70.305	0.4362	12500
Mg	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	23.4869	23.43	19.5065	22.141	0.4362	12500
Mn	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-6.1748	-18.2378	-6.0154	-10.143	0.4362	12500
Mo	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	106.1355	96.3883	122.3807	108.302	0.4362	12500
Na	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	230845.4	234938.8	234938.8	233574.322	0.4362	12500
Nd	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	384.1687	289.522	146.1523	273.281	0.4362	12500
Ni	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	1263.911	1263.904	1402.678	1310.164	0.4362	12500
P	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	4756.291	4309.257	4561.899	4542.483	0.4362	12500
Pb	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-331.105	120.6869	-263.402	-157.940	0.4362	12500
S	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	611.4729	666.9135	542.8614	607.083	0.4362	12500
Sb	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-121.659	14.8508	-310.276	-139.028	0.4362	12500
Se	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	745.9615	865.5557	496.8961	702.804	0.4362	12500
Si	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	397.2621	351.6477	292.9048	347.272	0.4362	12500
Sm	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	391.182	-285.75	-563.347	-152.638	0.4362	12500
Sr	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	24.6379	18.9802	18.9867	20.868	0.4362	12500
Ti	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-3.4368	-9.7574	-18.2296	-10.475	0.4362	12500
Tl	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	622.6436	290.6095	35.8793	316.377	0.4362	12500
U	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	751.5116	-1568.06	-2064.08	-960.210	0.4362	12500
V	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	46.0955	17.1414	19.1134	27.450	0.4362	12500
Zn	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	-125.816	-138.243	-136.737	-133.599	0.4362	12500
Zr	S94T000299L	SOLID	ZZZ	12/22/94	13 19	BJG	72.6557	-10.5601	0.32	20.805	0.4362	12500
Ag	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	4338.739	4345.159	4327.36	4337.086	0.4362	2500
Al	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	18560.85	18698.95	18706.55	18655.449	0.4362	2500
As	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5784.332	5822.553	5805.259	5804.048	0.4362	2500
B	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5559.46	5643.489	5627.653	5610.201	0.4362	2500
Ba	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5612.303	5688.162	5664.201	5654.889	0.4362	2500
Be	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5758.832	5840.465	5819.405	5806.234	0.4362	2500
Bi	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5743.188	5710.687	5688.154	5714.010	0.4362	2500
Ca	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5998.334	6074.846	6046.341	6039.840	0.4362	2500
Cd	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5803.303	5844.571	5818.776	5822.217	0.4362	2500
Ce	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5800.065	5793.901	5804.772	5799.579	0.4362	2500
Co	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5882.585	5930.399	5906.501	5906.495	0.4362	2500
Cr	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5910.821	5975.6	5914.375	5933.599	0.4362	2500
Cu	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5819.619	5898.726	5860.254	5859.533	0.4362	2500
Fe	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5937.051	5938.322	5940.483	5938.619	0.4362	2500
K	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	7878257	7976428	7925891	7926858.671	0.4362	2500
La	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5713.672	5820.714	5795.56	5776.649	0.4362	2500
Li	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5245.455	5328.86	5292.91	5289.075	0.4362	2500
Mg	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5730.535	5783.717	5771.205	5761.819	0.4362	2500
Mn	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5780.612	5848.934	5826.971	5818.839	0.4362	2500
Mo	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5863.011	5947.486	5941.637	5917.378	0.4362	2500
Na	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	226637.8	230046.5	228677	228453.766	0.4362	2500
Nd	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5758.462	5896.276	5952.252	5868.996	0.4362	2500
Ni	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	7046.451	7103.084	7064.014	7071.183	0.4362	2500
P	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	9545.209	9870.727	9993.965	9803.300	0.4362	2500
Pb	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5814.819	5815.477	5845.154	5825.150	0.4362	2500
S	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	6053.243	6223.775	6160.941	6145.986	0.4362	2500
Sb	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5282.213	5329.284	5269.997	5293.831	0.4362	2500
Se	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	6175.923	6331.697	6356.537	6288.052	0.4362	2500
Si	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	6110.274	6117.648	6131.191	6119.704	0.4362	2500
Sm	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	6106.299	6040.387	6047.8	6064.829	0.4362	2500
Sr	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5597.709	5673.366	5650.042	5640.372	0.4362	2500
Ti	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5619.101	5688.123	5673.246	5660.157	0.4362	2500
Tl	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	6274.993	6140.392	6216.535	6210.640	0.4362	2500
U	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	12791.69	12253.25	12462.67	12502.538	0.4362	2500
V	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5842.399	5896.895	5893.881	5877.725	0.4362	2500
Zn	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5792.418	5848.611	5840.916	5827.315	0.4362	2500
Zr	S94T000299A	SOLID	ZZZ	12/22/94	13 22	BJG	5802.391	5847.565	5849.523	5833.160	0.4362	2500
Ag	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	224.9072	208.5168	208.2142	213.879	0.4362	2500
Al	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	12868.54	13060.85	12960.88	12963.424	0.4362	2500
As	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	0.3274	11.4957	67.444	26.422	0.4362	2500
B	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	94.8462	93.0832	106.7114	98.214	0.4362	2500
Ba	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	25.5877	20.1186	22.9519	22.886	0.4362	2500
Be	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	4.8369	3.8491	3.9152	4.200	0.4362	2500
Bi	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	71.231	-29.4902	-60.3304	-6.197	0.4362	2500
Ca	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	179.6537	182.2791	179.6537	180.529	0.4362	2500
Cd	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	16.1674	13.0551	12.0357	13.753	0.4362	2500
Ce	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	272.9712	19.2902	140.816	144.359	0.4362	2500
Co	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	-0.3291	-0.1746	11.6679	3.721	0.4362	2500
Cr	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	76.0602	72.4493	77.1625	75.224	0.4362	2500
Cu	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	26.8195	15.8629	21.8056	21.496	0.4362	2500
Fe	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	143.62	139.5217	127.0874	136.743	0.4362	2500

K	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	7858517	8038875	7910345	7935912.234	0.4362	2500
La	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	49.0366	17.0306	42.5422	36.203	0.4362	2500
Li	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	34.1873	27.001	28.4368	29.875	0.4362	2500
Mg	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	18.0325	16.4392	18.0211	17.498	0.4362	2500
Mn	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	19.4144	17.0349	17.0006	17.817	0.4362	2500
Mo	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	65.4141	53.0677	56.9666	58.483	0.4362	2500
[illegible]	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	220430.6	226146.6	221904.3	222827.169	0.4362	2500
[illegible]	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	106.9139	41.3076	93.4337	80.552	0.4362	2500
Ni	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	1267.338	1266.04	1279.951	1271.110	0.4362	2500
P	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	3652.938	3603.249	3905.571	3720.586	0.4362	2500
Pb	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	20.8731	-63.0304	-59.7043	-33.954	0.4362	2500
S	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	376.8799	396.7029	383.4642	385.682	0.4362	2500
Sb	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	-54.2417	-77.3594	-190.14	-107.247	0.4362	2500
Se	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	272.4729	180.0486	258.9758	237.166	0.4362	2500
Si	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	489.8069	457.7538	478.6151	475.392	0.4362	2500
Sm	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	363.0518	67.8045	279.4471	236.768	0.4362	2500
Sr	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	8.321	6.0611	7.7583	7.380	0.4362	2500
Ti	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	18.0834	8.8292	15.712	14.208	0.4362	2500
Tl	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	501.6236	318.5827	375.2995	398.502	0.4362	2500
U	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	1631.615	460.2219	1167.637	1086.491	0.4362	2500
V	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	24.054	12.3499	14.9912	17.132	0.4362	2500
Zn	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	-2.3564	-4.0014	-4.8941	-3.751	0.4362	2500
Zr	S94T000299	SOLID	S94T000299	12/22/94	13 26	BJG	58.599	37.888	47.2121	47.900	0.4362	2500
Ag	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	36.0641	39.7069	24.7282	33.500	0.456	2500
Al	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	11922.94	11832.71	11993.34	11916.327	0.456	2500
As	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	35.7708	25.9099	28.8862	30.189	0.456	2500
B	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	62.0803	65.4611	57.0539	61.532	0.456	2500
Ba	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	17.4796	19.8401	15.7824	17.701	0.456	2500
Be	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	0.3666	-0.4281	1.1643	0.368	0.456	2500
Bi	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	64.217	30.7355	-15.7477	26.402	0.456	2500
Ca	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	236.7911	238.2262	243.9666	239.661	0.456	2500
Cd	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	-0.3311	9.5441	12.4896	7.234	0.456	2500
Ce	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	94.1874	180.0736	13.3214	95.861	0.456	2500
Co	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	-0.1678	-0.2354	-0.1124	-0.172	0.456	2500
Cr	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	91.7838	98.0156	79.0323	89.611	0.456	2500
Cu	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	6.8841	11.1557	5.1045	7.715	0.456	2500
Fe	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	98.2379	116.1664	128.139	114.181	0.456	2500
K	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	6571652	6527490	6629647	6576263.191	0.456	2500
La	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	10.4403	10.6345	-7.838	4.412	0.456	2500
Li	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	24.91	27.2011	23.5359	25.216	0.456	2500
Mg	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	12.7441	12.756	11.2363	12.245	0.456	2500
Mn	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	13.9415	13.9149	15.1277	14.328	0.456	2500
Mo	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	48.8987	50.1419	49.5203	49.520	0.456	2500
Na	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	200892.1	199667.5	203070.6	201210.077	0.456	2500
Nd	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	24.4034	8.9581	-74.1206	-13.586	0.456	2500
Ni	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	508.5645	548.4099	559.2325	538.736	0.456	2500
[illegible]	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	4116.94	4175.62	3838.325	4043.629	0.456	2500
[illegible]	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	-113.799	-16.3286	-43.597	-57.908	0.456	2500
[illegible]	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	401.341	392.9054	355.9432	383.397	0.456	2500
Sb	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	-218.859	-213.859	-80.3231	-171.014	0.456	2500
Se	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	-47.1154	21.5513	-4.4524	-10.006	0.456	2500
Si	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	392.7693	414.7708	365.1435	390.895	0.456	2500
Sm	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	243.6575	381.1759	134.8518	253.228	0.456	2500
Sr	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	4.7034	5.2412	3.6212	4.522	0.456	2500
Ti	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	5.9621	10.8927	4.2195	7.025	0.456	2500
Tl	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	385.4183	522.3698	240.0407	382.610	0.456	2500
U	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	925.8687	1411.748	471.2079	936.275	0.456	2500
V	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	11.9698	19.4285	3.3435	11.581	0.456	2500
Zn	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	28.0921	30.7035	33.8431	30.880	0.456	2500
Zr	S94T000299D	SOLID	S94T000299D	12/22/94	13 30	BJG	18.427	26.4415	8.6279	17.832	0.456	2500
Ag	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8759	4.8892	4.8322	4.866	1	1
Al	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8613	4.8663	4.8216	4.850	1	1
As	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8554	4.8696	4.8132	4.846	1	1
B	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9986	5.0212	4.9362	4.985	1	1
Ba	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8935	4.9143	4.8304	4.879	1	1
Be	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0965	5.1159	5.0434	5.085	1	1
Bi	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.848	4.9089	4.8611	4.873	1	1
Ca	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0452	5.064	4.9817	5.030	1	1
Cd	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9979	5.0033	4.9658	4.989	1	1
Ce	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.7657	4.7784	4.7371	4.760	1	1
Co	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0261	5.024	4.9782	5.009	1	1
Cr	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9783	4.9883	4.9463	4.971	1	1
Cu	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0989	5.1216	5.0363	5.086	1	1
Fe	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0264	5.0212	4.9588	5.002	1	1
K	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.4452	5.4939	5.4069	5.449	1	1
La	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9623	4.9855	4.9117	4.953	1	1
Li	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9474	5.0016	4.8889	4.946	1	1
Mg	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8987	4.9103	4.864	4.891	1	1
Mn	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9818	4.9912	4.9365	4.970	1	1
Mo	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.917	4.9319	4.9065	4.918	1	1
Na	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.0117	5.0584	4.9649	5.012	1	1
Nd	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.1162	5.1111	5.0519	5.093	1	1
Ni	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9683	4.9716	4.918	4.953	1	1
P	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8222	4.8173	4.699	4.780	1	1
Pb	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.9589	4.9827	4.9658	4.969	1	1
S	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8534	4.8675	4.8108	4.844	1	1
Sb	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.7108	4.6879	4.7189	4.706	1	1
[illegible]	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	5.4314	5.4694	5.3272	5.409	1	1
[illegible]	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.6337	4.6479	4.6017	4.628	1	1
[illegible]m	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8221	4.8302	4.7472	4.800	1	1
Sr	CCV_1	SOLID	CCV_1	12/22/94	13 37	BJG	4.8522	4.8718	4.7952	4.840	1	1

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LABCORE Data Entry Template for Worklist# 393

Analyst: [signature] **Instrument:** ICP01 _____ **Method:** LA-505-151 **Book#** 37B48B

Worklist Comment: ICP Acid Dig. SY103 batch #58 WHC-SD-WM-DP-074, REV. 0 REV. mod. B-1

Seq	Type	Sample#	R A	Test	Matrix	Analytes Requested
1	ICV			@ICP-QC	QC	
2	ICB			@ICP-QC	QC	
3	ICSA			@ICP-QC	QC	
4	ICSAB			@ICP-QC	QC	
5	CCV			@ICP-QC	QC	
6	CCB			@ICP-QC	QC	
7	PREPSTDARL			@ICP-A02	SOLID	
8	PREPBLKARL			@ICP-A02	SOLID	
9	SAMPLE	S94T000266	0 A	@ICP-A02	SOLID	AL-A-01 , CA-A-01 , CR-A-01 , FE-A-01 , K-A-01 , NA-A-01 , NI-A-01 , ZN-A-01 , ZR-A-01
10	DUP	S94T000266	0 A	@ICP-A02	SOLID	
11	CCV			@ICP-QC	QC	
12	CCB			@ICP-QC	QC	
13	CCV			@ICP-QC	QC	
14	CCB			@ICP-QC	QC	
15	SAMPLE	S94T000276	0 A	@ICP-A02	SOLID	AL-A-01 , CA-A-01 , CR-A-01 , FE-A-01 , K-A-01 , NA-A-01 , NI-A-01 , ZN-A-01 , ZR-A-01
16	DUP	S94T000276	0 A	@ICP-A02	SOLID	
17	CCV			@ICP-QC	QC	
18	CCB			@ICP-QC	QC	
19	SAMPLE	S94T000277	0 A	@ICP-A02	SOLID	AL-A-01 , CA-A-01 , CR-A-01 , FE-A-01 , K-A-01 , NA-A-01 , NI-A-01 , ZN-A-01 , ZR-A-01
20	DUP	S94T000277	0 A	@ICP-A02	SOLID	
21	CCV			@ICP-QC	QC	
22	CCB			@ICP-QC	QC	
23	SAMPLE	S94T000278	0 A	@ICP-A02	SOLID	AL-A-01 , CA-A-01 , CR-A-01 , FE-A-01 , K-A-01 , NA-A-01 , NI-A-01 , ZN-A-01 , ZR-A-01
24	DUP	S94T000278	0 A	@ICP-A02	SOLID	
25	CCV			@ICP-QC	QC	
26	CCB			@ICP-QC	QC	
27	ICSA			@ICP-QC	QC	
28	ICSAB			@ICP-QC	QC	
29	CCV			@ICP-QC	QC	
30	CCB			@ICP-QC	QC	

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Data Entry Comments:

LABCORE Data Entry Template for Worklist# 393

Analyst: BJ Goecke **Instrument:** ICP01 _____ **Method:** LA-505-151 **Book#** 37 B48B
Rev Mod D-1

Worklist Comment: ICP Acid Dig. SY103 batch #58

Seq	Type	Sample#	R	A	Test	Matrix	Analytes Requested

Final page for worklist # 393

Analyst Signature **Date** 1-19-95 **Analyst Signature** **Date**

WHC-SD-WM-DP-074, REV. 0

Data Entry Comments:

Al	INST QC	LIQ	ICV	10 28	5.022	5.0224	5.0094	5.0356	1	1	
Al	INST QC	LIQ	ICB	10 31	0.003	0.0031	0.0005	0.005	1	1	
Al	INST QC	LIQ	ICSA	10 34	203.822	203.461	204.4262	203.5802	1	1	
Al	INST QC	LIQ	ICSAB	10 37	204.167	204.5367	203.9789	203.9859	1	1	
Al	INST QC	LIQ	CCV_1	10 48	5.085	5.1125	5.0542	5.0891	1	1	
Al	INST QC	LIQ	CCB_1	10 51	-0.000	-0.0058	-0.0002	0.0046	1	1	
Al	LCSW	LIQ	PREPSTDARL	10 55	4.881	4.8545	4.8958	4.8923	1	1	D.-
Al	PB	LIQ	PREPBLKARL	10 58	0.026	0.0261	0.02	0.031	1	1	
Al	50X	SOLID	S94T000266_L1	11 2	29593.199	29477.4	29662.75	29639.44	1.4238	5000	
Al	ZZZ	SOLID	ZZZ	11 4	146873.392	146561.8	147269.7	146788.7	1.4238	5000	
Al	1-9	SOLID	S94T000266_L	11 10	29529.343	29494.5	29410.38	29683.15	1.4238	1000	
Al	1-4	SOLID	S94T000266	11 14	28891.468	28789.22	28994.94	28890.25	1.4238	500	17.6
Al	POST 1-4	SOLID	ZZZ	11 18	29405.947	29144.84	29391.45	29681.56	1.4238	500	
Al	1-9	SOLID	S94T000266_DL	11 22	29729.826	29631.32	29821.52	29736.64	1.4215	1000	
Al	1-4	SOLID	S94T000266_D	11 25	29374.829	29115.77	29482.78	29525.93	1.4215	500	
Al	ZZZ	LIQ	ZZZ	11 30	5.182	5.1784	5.1984	5.1698	1	1	
Al	INST QC	LIQ	CCV_2	11 33	5.075	5.0597	5.0933	5.0733	1	1	
Al	INST QC	LIQ	CCB_2	11 36	0.029	0.0277	0.0319	0.0281	1	1	
Al	INST QC	LIQ	CCV_3	12 50	5.061	5.0564	5.065	5.0615	1	1	
Al	INST QC	LIQ	CCB_3	12 53	-0.001	-0.0005	-0.002	0.0005	1	1	
Al	50X	SOLID	ZZZ	12 57	30591.046	30682.34	30553.96	30536.84	0.5173	5000	
Al	1-9	SOLID	S94T000276_L1	13 0	30134.294	30047.58	30125.81	30229.49	0.5173	1000	
Al	1-4	SOLID	S94T000276_L	13 3	30047.110	29908.32	30003.45	30229.56	0.5173	500	
Al	POST 1-4	SOLID	ZZZ	13 6	31197.531	31119.32	31219.33	31253.95	0.5173	500	
Al	1-9	SOLID	S94T000276_DL1	13 10	30815.173	30879.46	30860.8	30705.25	0.506	1000	
Al	1-4	SOLID	S94T000276_DL	13 13	30550.831	30622.44	30520.97	30509.08	0.506	500	
Al	SAMPLE	SOLID	S94T000276	13 17	27471.848	27104.35	27588.31	27722.89	0.5173	100	9.67
Al	DUP	SOLID	S94T000276_D	13 22	27543.663	27048.62	27695.03	27887.33	0.506	100	
Al	INST QC	LIQ	CCV_4	13 27	5.269	5.2616	5.285	5.2614	1	1	
Al	ZZZ	LIQ	ZZZ	13 32	0.059	0.0827	0.043	0.0506	1	1	
Al	INST QC	LIQ	CCB_4	13 36	0.060	0.0695	0.061	0.05	1	1	
Al	1-9-1-4	LIQ	S94T000277_L1	13 45	26829.443	26763.91	26881.38	26843.05	1.02	5000	
Al	1-9	LIQ	S94T000277_L	13 48	26677.040	26649.51	26646.31	26735.3	1.02	1000	
Al	1-4	SOLID	S94T000277	13 51	26367.120	26272.31	26380.82	26448.24	1.02	500	24.5
Al	POST 1-4	SOLID	ZZZ	13 54	27431.321	27278.24	27245.15	27770.57	1.02	500	
Al	1-9	SOLID	S94T000277_DL	13 59	24620.326	24574.27	24746.06	24540.64	1.1632	1000	
Al	1-4	SOLID	S94T000277_D	14 2	24152.781	24127.67	24144.17	24186.5	1.1632	500	
Al	INST QC	LIQ	CCV_5	14 6	5.093	5.093	5.0853	5.0994	1	1	
Al	INST QC	LIQ	CCB_5	14 9	0.064	0.0692	0.0758	0.0455	1	1	
Al	1-9-1-4	SOLID	S94T000278_L1	14 13	35749.003	35756.87	35670.07	35820.07	0.5819	5000	
Al	1-9	SOLID	S94T000278_L	14 16	35466.477	35401.08	35453.91	35544.44	0.5819	1000	
Al	1-4	SOLID	S94T000278	14 21	34848.907	34652.16	34665.38	35229.18	0.5819	500	43.0
Al	POST 1-4	SOLID	ZZZ	14 24	36046.815	35875.53	36088.36	36176.55	0.5819	500	
Al	1-9	SOLID	S94T000278_DL	14 28	35019.442	34998.28	35019.8	35040.25	0.5829	1000	
Al	1-4	SOLID	S94T000278_D	14 31	35155.285	34891.15	35164.84	35409.87	0.5829	500	
Al	INST QC	LIQ	CCV_6	14 37	5.070	5.0761	5.0806	5.0544	1	1	
Al	INST QC	LIQ	CCB_6	14 39	-0.008	-0.0055	-0.0088	-0.0103	1	1	
Al	INST QC	LIQ	ICSA	14 42	205.450	205.277	205.11	205.9621	1	1	
Al	INST QC	LIQ	ICSAB	14 44	202.327	201.9328	202.8643	202.1829	1	1	
Al	INST QC	LIQ	CCV_7	14 49	5.114	5.1222	5.1068	5.1118	1	1	
Al	INST QC	LIQ	CCB_7	14 51	0.059	0.0527	0.0617	0.063	1	1	
Ca	INST QC	LIQ	ICV	10 28	5.120	5.1207	5.1107	5.1282	1	1	
Ca	INST QC	LIQ	ICB	10 31	0.006	0.0062	0.0055	0.0061	1	1	
Ca	INST QC	LIQ	ICSA	10 34	18.880	18.8203	18.9118	18.9064	1	1	
Ca	INST QC	LIQ	ICSAB	10 37	18.891	18.933	18.8529	18.8874	1	1	
Ca	INST QC	LIQ	CCV_1	10 48	5.156	5.1581	5.1344	5.1757	1	1	
Ca	INST QC	LIQ	CCB_1	10 51	0.005	0.0051	0.0048	0.0048	1	1	
Ca	LCSW	LIQ	PREPSTDARL	10 55	5.064	5.0436	5.0831	5.0653	1	1	
Ca	PB	LIQ	PREPBLKARL	10 58	0.021	0.0231	0.0205	0.0187	1	1	
Ca	50X	SOLID	S94T000266_L1	11 2	131.463	135.5094	130.366	128.5144	1.4238	5000	
Ca	ZZZ	SOLID	ZZZ	11 4	563.091	563.4337	565.9024	559.9362	1.4238	5000	
Ca	1-9	SOLID	S94T000266_L	11 10	113.002	113.3451	112.5633	113.0982	1.4238	1000	
Ca	1-4	SOLID	S94T000266	11 14	109.107	109.2373	109.2784	108.8052	1.4238	500	35.1
Ca	POST 1-4	SOLID	ZZZ	11 18	467.048	465.0316	465.9369	470.175	1.4238	500	
Ca	1-9	SOLID	S94T000266_DL	11 22	109.366	109.1187	109.9841	108.995	1.4215	1000	
Ca	1-4	SOLID	S94T000266_D	11 25	108.109	107.3946	108.3013	108.631	1.4215	500	
Ca	ZZZ	LIQ	ZZZ	11 30	5.187	5.194	5.1842	5.1821	1	1	
Ca	INST QC	LIQ	CCV_2	11 33	5.130	5.1226	5.1528	5.1144	1	1	
Ca	INST QC	LIQ	CCB_2	11 36	0.009	0.0118	0.0096	0.0069	1	1	
Ca	INST QC	LIQ	CCV_3	12 50	5.167	5.1695	5.1627	5.1678	1	1	
Ca	INST QC	LIQ	CCB_3	12 53	0.002	0.0021	0.0021	0.0021	1	1	

Ca	50X	SOLID	ZZZ	12 57	240.280	238.2035	240.4686	242.1673	0.5173	5000	
Ca	1-9	SOLID	S94T000276_L1	13 0	217.592	217.29	217.9695	217.5165	0.5173	1000	
Ca	1-4	SOLID	S94T000276_L	13 3	213.383	212.8921	212.8921	214.3643	0.5173	500	
Ca	POST 1-4	SOLID	ZZZ	13 6	1203.381	1202.871	1203.777	1203.494	0.5173	500	D.L.
Ca	1-9	SOLID	S94T000276_DL1	13 10	201.534	201.6495	201.6495	201.3021	0.506	1000	
Ca	1-4	SOLID	S94T000276_DL	13 13	203.637	204.5633	203.2897	203.0581	0.506	500	
Ca	SAMPLE	SOLID	S94T000276	13 17	201.801	199.5549	202.5787	203.2695	0.5173	100	19.3
Ca	DUP	SOLID	S94T000276_D	13 22	187.463	184.5604	188.4853	189.3421	0.506	100	
Ca	INST QC	LIQ	CCV_4	13 27	5.231	5.2371	5.2414	5.2153	1	1	
Ca	ZZZ	LIQ	ZZZ	13 32	0.007	0.0112	0.0058	0.0049	1	1	
Ca	INST QC	LIQ	CCB_4	13 36	0.004	0.0047	0.0044	0.0041	1	1	
Ca	1-9-1-4	LIQ	S94T000277_L1	13 45	119.275	119.0835	119.6578	119.0835	1.02	5000	
Ca	1-9	LIQ	S94T000277_L	13 48	110.755	110.8319	110.5447	110.8893	1.02	1000	
Ca	1-4	SOLID	S94T000277	13 51	109.520	109.6927	109.463	109.4056	1.02	500	49.0
Ca	POST 1-4	SOLID	ZZZ	13 54	621.177	619.1767	615.1849	629.1705	1.02	500	
Ca	1-9	SOLID	S94T000277_DL	13 59	108.402	108.3685	109.0736	107.7642	1.1632	1000	
Ca	1-4	SOLID	S94T000277_D	14 2	106.950	107.4955	106.6897	106.6645	1.1632	500	
Ca	INST QC	LIQ	CCV_5	14 6	5.076	5.0821	5.0613	5.0834	1	1	
Ca	INST QC	LIQ	CCB_5	14 9	0.008	0.0098	0.007	0.0062	1	1	
Ca	1-9-1-4	SOLID	S94T000278_L1	14 13	386.268	387.9456	382.9117	387.9456	0.5819	5000	
Ca	1-9	SOLID	S94T000278_L	14 16	359.051	358.2792	359.0846	359.7893	0.5819	1000	
Ca	1-4	SOLID	S94T000278	14 21	355.410	353.3627	354.1681	358.6986	0.5819	500	85.9
Ca	POST 1-4	SOLID	ZZZ	14 24	1209.696	1207.514	1213.253	1208.32	0.5819	500	
Ca	1-9	SOLID	S94T000278_DL	14 28	346.073	346.9105	345.7044	345.6039	0.5829	1000	
Ca	1-4	SOLID	S94T000278_D	14 31	346.106	344.6156	346.877	346.8267	0.5829	500	
Ca	INST QC	LIQ	CCV_6	14 37	5.037	5.0378	5.0515	5.023	1	1	
Ca	INST QC	LIQ	CCB_6	14 39	0.007	0.0077	0.0061	0.0058	1	1	
Ca	INST QC	LIQ	ICSA	14 42	18.752	18.7324	18.684	18.8401	1	1	
Ca	INST QC	LIQ	ICSAB	14 44	18.699	18.6348	18.7258	18.7352	1	1	
Ca	INST QC	LIQ	CCV_7	14 49	5.056	5.0447	5.0583	5.0656	1	1	
Ca	INST QC	LIQ	CCB_7	14 51	0.018	0.0184	0.017	0.0197	1	1	
Cr	INST QC	LIQ	ICV	10 28	5.137	5.1204	5.1383	5.1522	1	1	
Cr	INST QC	LIQ	ICB	10 31	0.005	0.0044	0.005	0.0047	1	1	
Cr	INST QC	LIQ	ICSA	10 34	0.002	0.0048	0.0015	-0.0005	1	1	
Cr	INST QC	LIQ	ICSAB	10 37	0.531	0.5303	0.5301	0.5312	1	1	
Cr	INST QC	LIQ	CCV_1	10 48	5.175	5.1756	5.168	5.1808	1	1	
Cr	INST QC	LIQ	CCB_1	10 51	0.003	0.0033	0.0032	0.0034	1	1	
Cr	LCSW	LIQ	PREPSTDARL	10 55	4.794	4.7726	4.8065	4.803	1	1	
Cr	PB	LIQ	PREPBLKARL	10 58	0.011	0.0124	0.011	0.011	1	1	
Cr	50X	SOLID	S94T000266_L1	11 2	45.211	53.6829	39.9153	42.0362	1.4238	5000	
Cr	ZZZ	SOLID	ZZZ	11 4	133.350	128.1823	130.9577	140.9086	1.4238	5000	
Cr	1-9	SOLID	S94T000266_L	11 10	26.402	25.2023	26.8813	27.1233	1.4238	1000	
Cr	1-4	SOLID	S94T000266	11 14	27.027	26.8775	27.1827	27.0194	1.4238	500	3.51
Cr	POST 1-4	SOLID	ZZZ	11 18	380.588	377.3878	381.5686	382.8061	1.4238	500	
Cr	1-9	SOLID	S94T000266_DL	11 22	27.507	27.4754	25.9901	29.0555	1.4215	1000	
Cr	1-4	SOLID	S94T000266_D	11 25	27.939	27.7454	26.9606	29.11	1.4215	500	
Cr	ZZZ	LIQ	ZZZ	11 30	5.177	5.1917	5.1697	5.1705	1	1	
Cr	INST QC	LIQ	CCV_2	11 33	5.119	5.1325	5.1242	5.1008	1	1	
Cr	INST QC	LIQ	CCB_2	11 36	0.010	0.0112	0.01	0.0083	1	1	
Cr	INST QC	LIQ	CCV_3	12 50	5.161	5.1564	5.1672	5.1602	1	1	
Cr	INST QC	LIQ	CCB_3	12 53	0.003	0.0024	0.002	0.0033	1	1	
Cr	50X	SOLID	ZZZ	12 57	49.495	39.7189	57.1104	51.6555	0.5173	5000	
Cr	1-9	SOLID	S94T000276_L1	13 0	36.628	36.5148	35.1163	38.2531	0.5173	1000	
Cr	1-4	SOLID	S94T000276_L	13 3	33.980	34.1904	34.595	33.1532	0.5173	500	
Cr	POST 1-4	SOLID	ZZZ	13 6	1000.295	1000.141	999.8557	1000.889	0.5173	500	
Cr	1-9	SOLID	S94T000276_DL1	13 10	33.814	34.8551	32.7093	33.8771	0.506	1000	
Cr	1-4	SOLID	S94T000276_DL	13 13	31.469	32.5063	32.4654	29.4356	0.506	500	
Cr	SAMPLE	SOLID	S94T000276	13 17	31.087	31.1613	30.9647	31.1335	0.5173	100	1.93
Cr	DUP	SOLID	S94T000276_D	13 22	31.035	31.0412	30.8364	31.2259	0.506	100	
Cr	INST QC	LIQ	CCV_4	13 27	5.255	5.2671	5.256	5.243	1	1	
Cr	ZZZ	LIQ	ZZZ	13 32	0.007	0.011	0.0056	0.0039	1	1	
Cr	INST QC	LIQ	CCB_4	13 36	0.003	0.0034	0.0015	0.0027	1	1	
Cr	1-9-1-4	LIQ	S94T000277_L1	13 45	258.940	255.353	265.2861	256.1815	1.02	5000	
Cr	1-9	LIQ	S94T000277_L	13 48	265.276	263.4033	265.3093	267.1152	1.02	1000	
Cr	1-4	SOLID	S94T000277	13 51	265.245	262.9468	265.8331	266.9538	1.02	500	4.90
Cr	POST 1-4	SOLID	ZZZ	13 54	768.384	767.6043	767.1437	770.4027	1.02	500	
Cr	1-9	SOLID	S94T000277_DL	13 59	246.636	246.8501	245.9763	247.0817	1.1632	1000	
Cr	1-4	SOLID	S94T000277_D	14 2	240.120	239.6155	240.575	240.1702	1.1632	500	
Cr	INST QC	LIQ	CCV_5	14 6	5.039	5.0447	5.0344	5.0387	1	1	
Cr	INST QC	LIQ	CCB_5	14 9	0.009	0.0103	0.0084	0.0076	1	1	
Cr	1-9-1-4	SOLID	S94T000278_L1	14 13	6148.501	6145.663	6126.805	6173.035	0.5819	5000	

Cr	1-9	SOLID	S94T000278_L	14 16	6543.815	6507.455	6557.529	6566.462	0.5819	1000	
Cr	1-4	SOLID	S94T000278	14 21	6497.573	6464.022	6506.199	6522.499	0.5819	500	8.59
Cr	POST 1-4	SOLID	ZZZ	14 24	7375.096	7344.153	7398.629	7382.506	0.5819	500	
Cr	1-9	SOLID	S94T000278_DL	14 28	6487.756	6498.839	6479.998	6484.43	0.5829	1000	
Cr	1-4	SOLID	S94T000278_D	14 31	6603.083	6566.943	6613.509	6628.796	0.5829	500	
Cr	INST QC	LIQ	CCV_6	14 37	5.108	5.1044	5.1227	5.0964	1	1	
Cr	INST QC	LIQ	CCB_6	14 39	0.006	0.0076	0.0062	0.0052	1	1	
Cr	INST QC	LIQ	ICSA	14 42	0.006	0.0029	0.0059	0.0078	1	1	
Cr	INST QC	LIQ	ICSAB	14 44	0.505	0.5041	0.5051	0.506	1	1	
Cr	INST QC	LIQ	CCV_7	14 49	4.979	4.9679	4.9816	4.9866	1	1	
Cr	INST QC	LIQ	CCB_7	14 51	0.012	0.01	0.0128	0.0142	1	1	
Fe	INST QC	LIQ	ICV	10 28	5.068	5.0662	5.0613	5.0779	1	1	
Fe	INST QC	LIQ	ICB	10 31	0.003	0.0036	0.0036	0.0026	1	1	
Fe	INST QC	LIQ	ICSA	10 34	152.549	152.1679	153.1704	152.3096	1	1	
Fe	INST QC	LIQ	ICSAB	10 37	152.123	152.155	152.2178	151.9972	1	1	
Fe	INST QC	LIQ	CCV_1	10 48	5.189	5.2229	5.157	5.1879	1	1	
Fe	INST QC	LIQ	CCB_1	10 51	0.006	0.0036	0.0057	0.0098	1	1	
Fe	LCSW	LIQ	PREPSTDARL	10 55	4.828	4.8075	4.8455	4.8322	1	1	
Fe	PB	LIQ	PREPBLKARL	10 58	0.044	0.0441	0.0476	0.0413	1	1	
Fe	50X	SOLID	S94T000266_L1	11 2	49.092	65.3076	32.3978	49.5707	1.4238	5000	
Fe	ZZZ	SOLID	ZZZ	11 4	48.608	39.2187	51.6452	54.9592	1.4238	5000	
Fe	1-9	SOLID	S94T000266_L	11 10	13.240	13.0647	14.5579	12.0986	1.4238	1000	
Fe	1-4	SOLID	S94T000266	11 14	13.142	12.5301	13.0025	13.8946	1.4238	500	17.6
Fe	POST 1-4	SOLID	ZZZ	11 18	364.579	364.2325	361.8975	367.6064	1.4238	500	
Fe	1-9	SOLID	S94T000266_DL	11 22	15.610	14.5106	15.3458	16.9732	1.4215	1000	
Fe	1-4	SOLID	S94T000266_D	11 25	12.907	12.9449	13.2311	12.5448	1.4215	500	
Fe	ZZZ	LIQ	ZZZ	11 30	5.148	5.1344	5.1565	5.1518	1	1	
Fe	INST QC	LIQ	CCV_2	11 33	5.108	5.1021	5.1515	5.071	1	1	
Fe	INST QC	LIQ	CCB_2	11 36	0.012	0.0135	0.0129	0.0098	1	1	
Fe	INST QC	LIQ	CCV_3	12 50	5.130	5.1334	5.1115	5.1452	1	1	
Fe	INST QC	LIQ	CCB_3	12 53	0.001	0.0009	0.0011	0.0005	1	1	
Fe	50X	SOLID	ZZZ	12 57	70.550	55.4415	79.8756	76.3334	0.5173	5000	
Fe	1-9	SOLID	S94T000276_L1	13 0	56.491	53.8336	57.2804	58.3575	0.5173	1000	
Fe	1-4	SOLID	S94T000276_L	13 3	52.900	50.9525	55.4725	52.2738	0.5173	500	
Fe	POST 1-4	SOLID	ZZZ	13 6	1020.757	1015.96	1019.371	1026.939	0.5173	500	
Fe	1-9	SOLID	S94T000276_DL1	13 10	54.980	55.0003	55.7541	54.1862	0.506	1000	
Fe	1-4	SOLID	S94T000276_DL	13 13	80.356	78.5687	82.2212	80.2782	0.506	500	
Fe	SAMPLE	SOLID	S94T000276	13 17	47.097	46.0476	47.0367	48.2053	0.5173	100	9.6
Fe	DUP	SOLID	S94T000276_D	13 22	49.707	49.3956	50.0179	49.7072	0.506	100	
Fe	INST QC	LIQ	CCV_4	13 27	5.195	5.2312	5.1813	5.171	1	1	
Fe	ZZZ	LIQ	ZZZ	13 32	0.007	0.0096	0.0051	0.0055	1	1	
Fe	INST QC	LIQ	CCB_4	13 36	0.001	-0.0017	0.0006	0.003	1	1	
Fe	1-9-1-4	LIQ	S94T000277_L1	13 45	79.527	82.6715	77.992	77.9185	1.02	5000	
Fe	1-9	LIQ	S94T000277_L	13 48	81.410	81.6139	82.3608	80.2564	1.02	1000	
Fe	1-4	SOLID	S94T000277	13 51	80.864	79.9471	82.9057	79.739	1.02	500	24.5
Fe	POST 1-4	SOLID	ZZZ	13 54	572.735	574.4265	567.7993	575.9804	1.02	500	
Fe	1-9	SOLID	S94T000277_DL	13 59	72.625	73.1839	74.8906	69.8014	1.1632	1000	
Fe	1-4	SOLID	S94T000277_D	14 2	74.466	74.3087	74.1274	74.9625	1.1632	500	
Fe	INST QC	LIQ	CCV_5	14 6	5.002	5.0021	5.0022	5.0014	1	1	
Fe	INST QC	LIQ	CCB_5	14 9	0.008	0.01	0.0076	0.0071	1	1	
Fe	1-9-1-4	SOLID	S94T000278_L1	14 13	2114.740	2121.028	2102.245	2120.947	0.5819	5000	
Fe	1-9	SOLID	S94T000278_L	14 16	2141.616	2122.206	2134.664	2167.978	0.5819	1000	
Fe	1-4	SOLID	S94T000278	14 21	2108.456	2093.594	2112.256	2119.518	0.5819	500	43.0
Fe	POST 1-4	SOLID	ZZZ	14 24	2936.292	2929.464	2942.231	2937.181	0.5819	500	
Fe	1-9	SOLID	S94T000278_DL	14 28	2108.559	2108.788	2110.464	2106.426	0.5829	1000	
Fe	1-4	SOLID	S94T000278_D	14 31	2121.554	2106.837	2124.803	2133.021	0.5829	500	
Fe	INST QC	LIQ	CCV_6	14 37	5.048	5.0366	5.0672	5.0396	1	1	
Fe	INST QC	LIQ	CCB_6	14 39	0.003	0.0059	0.001	0.0029	1	1	
Fe	INST QC	LIQ	ICSA	14 42	149.368	149.1882	149.2925	149.6242	1	1	
Fe	INST QC	LIQ	ICSAB	14 44	148.221	147.8133	148.4796	148.3702	1	1	
Fe	INST QC	LIQ	CCV_7	14 49	5.086	5.0938	5.0744	5.0891	1	1	
Fe	INST QC	LIQ	CCB_7	14 51	0.056	0.0576	0.0519	0.0583	1	1	
Ni	INST QC	LIQ	ICV	10 28	5.098	5.0979	5.1027	5.0931	1	1	
Ni	INST QC	LIQ	ICB	10 31	0.003	0.002	0.0013	0.0043	1	1	
Ni	INST QC	LIQ	ICSA	10 34	0.006	0.0053	0.0074	0.005	1	1	
Ni	INST QC	LIQ	ICSAB	10 37	1.042	1.04	1.0457	1.0417	1	1	
Ni	INST QC	LIQ	CCV_1	10 48	5.152	5.1443	5.1528	5.1582	1	1	
Ni	INST QC	LIQ	CCB_1	10 51	0.001	0.0015	-0.0008	0.0036	1	1	
Ni	LCSW	LIQ	PREPSTDARL	10 55	4.729	4.699	4.7502	4.7379	1	1	
Ni	PB	LIQ	PREPBLKARL	10 58	0.007	0.0072	0.0058	0.0077	1	1	
Ni	50X	SOLID	S94T000266_L1	11 2	60.103	63.8362	57.4372	59.0355	1.4238	5000	

Ni	ZZZ	SOLID	ZZZ	11 4	177.357	174.4217	176.0139	181.6357	1.4238	5000	
Ni	1-9	SOLID	S94T000266_L	11 10	36.005	36.4849	34.404	37.127	1.4238	1000	
Ni	1-4	SOLID	S94T000266	11 14	33.432	33.5381	33.2184	33.5389	1.4238	500	7.02
Ni	POST 1-4	SOLID	ZZZ	11 18	381.106	379.4792	381.402	382.4376	1.4238	500	
Ni	1-9	SOLID	S94T000266_DL	11 22	36.484	35.8953	34.9312	38.6248	1.4215	1000	
	1-4	SOLID	S94T000266_D	11 25	35.493	36.4038	34.7171	35.359	1.4215	500	
Ni	ZZZ	LIQ	ZZZ	11 30	5.146	5.161	5.1462	5.1298	1	1	
Ni	INST QC	LIQ	CCV_2	11 33	5.092	5.097	5.0983	5.0808	1	1	
Ni	INST QC	LIQ	CCB_2	11 36	0.010	0.012	0.01	0.0075	1	1	
Ni	INST QC	LIQ	CCV_3	12 50	5.140	5.1341	5.1394	5.1469	1	1	
Ni	INST QC	LIQ	CCB_3	12 53	0.002	0.0038	0.0022	0.0009	1	1	
Ni	50X	SOLID	ZZZ	12 57	47.131	47.8753	43.4632	50.0539	0.5173	5000	
Ni	1-9	SOLID	S94T000276_L1	13 0	39.985	41.7505	39.0988	39.1047	0.5173	1000	
Ni	1-4	SOLID	S94T000276_L	13 3	36.078	36.5191	35.4169	36.2984	0.5173	500	
Ni	POST 1-4	SOLID	ZZZ	13 6	988.387	985.5966	990.4423	989.1207	0.5173	500	
Ni	1-9	SOLID	S94T000276_DL1	13 10	36.981	37.2795	38.6334	35.0289	0.506	1000	
Ni	1-4	SOLID	S94T000276_DL	13 13	40.108	39.5804	41.1597	39.5832	0.506	500	
Ni	SAMPLE	SOLID	S94T000276	13 17	34.277	33.7048	34.1007	35.0269	0.5173	100	3.87
Ni	DUP	SOLID	S94T000276_D	13 22	33.675	33.285	33.4646	34.2763	0.506	100	
Ni	INST QC	LIQ	CCV_4	13 27	5.218	5.227	5.2199	5.2067	1	1	
Ni	ZZZ	LIQ	ZZZ	13 32	0.006	0.0068	0.0052	0.0045	1	1	
Ni	INST QC	LIQ	CCB_4	13 36	0.001	0.0011	0.0029	0.0002	1	1	
Ni	1-9-1-4	LIQ	S94T000277_L1	13 45	29.450	32.0645	36.527	19.7597	1.02	5000	
Ni	1-9	LIQ	S94T000277_L	13 48	29.532	28.9343	29.8316	29.8312	1.02	1000	
Ni	1-4	SOLID	S94T000277	13 51	30.160	29.749	30.0847	30.6449	1.02	500	9.80
Ni	POST 1-4	SOLID	ZZZ	13 54	518.744	516.547	519.1225	520.5627	1.02	500	
Ni	1-9	SOLID	S94T000277_DL	13 59	28.318	29.2978	27.1379	28.5175	1.1632	1000	
Ni	1-4	SOLID	S94T000277_D	14 2	27.588	27.0638	27.6542	28.0468	1.1632	500	
Ni	INST QC	LIQ	CCV_5	14 6	5.015	5.0207	5.005	5.0205	1	1	
Ni	INST QC	LIQ	CCB_5	14 9	0.006	0.0084	0.0077	0.0013	1	1	
Ni	1-9-1-4	SOLID	S94T000278_L1	14 13	92.744	77.6922	101.2573	99.2829	0.5819	5000	
Ni	1-9	SOLID	S94T000278_L	14 16	109.107	114.2178	106.3625	106.7405	0.5819	1000	
Ni	1-4	SOLID	S94T000278	14 21	102.004	104.1101	100.3719	101.5314	0.5819	500	17.2
Ni	POST 1-4	SOLID	ZZZ	14 24	927.155	918.8696	931.5862	931.0086	0.5819	500	
Ni	1-9	SOLID	S94T000278_DL	14 28	103.869	105.0405	105.0409	101.5263	0.5829	1000	
Ni	1-4	SOLID	S94T000278_D	14 31	100.893	99.2077	101.9325	101.539	0.5829	500	
Ni	INST QC	LIQ	CCV_6	14 37	5.074	5.0688	5.0847	5.0674	1	1	
	INST QC	LIQ	CCB_6	14 39	0.007	0.0072	0.0065	0.0075	1	1	
Ni	INST QC	LIQ	ICSA	14 42	0.007	0.0037	0.0107	0.0051	1	1	
Ni	INST QC	LIQ	ICSAB	14 44	0.998	0.9959	0.999	0.9993	1	1	
Ni	INST QC	LIQ	CCV_7	14 49	4.968	4.9505	4.9715	4.9818	1	1	
Ni	INST QC	LIQ	CCB_7	14 51	0.013	0.0127	0.0129	0.0147	1	1	
Zn	INST QC	LIQ	ICV	10 28	5.155	5.1463	5.1566	5.1617	1	1	
Zn	INST QC	LIQ	ICB	10 31	0.088	0.0875	0.0877	0.0885	1	1	
Zn	INST QC	LIQ	ICSA	10 34	-0.010	-0.0098	-0.0093	-0.0094	1	1	
Zn	INST QC	LIQ	ICSAB	10 37	1.046	1.0476	1.0453	1.0446	1	1	
Zn	INST QC	LIQ	CCV_1	10 48	5.189	5.1821	5.1894	5.1954	1	1	
Zn	INST QC	LIQ	CCB_1	10 51	0.036	0.0381	0.035	0.0344	1	1	
Zn	LCSW	LIQ	PREPSTDARL	10 55	4.556	4.5223	4.5708	4.5743	1	1	
Zn	PB	LIQ	PREPBLKARL	10 58	0.006	0.0065	0.0057	0.0044	1	1	
Zn	50X	SOLID	S94T000266_L1	11 2	-1.960	2.4169	-3.2388	-5.0592	1.4238	5000	
Zn	ZZZ	SOLID	ZZZ	11 4	77.100	76.51	77.0194	77.7691	1.4238	5000	
Zn	1-9	SOLID	S94T000266_L	11 10	14.572	14.6736	14.2676	14.7746	1.4238	1000	
Zn	1-4	SOLID	S94T000266	11 14	19.383	19.5385	19.2289	19.3826	1.4238	500	3.51
Zn	POST 1-4	SOLID	ZZZ	11 18	367.714	366.0406	367.4042	369.6983	1.4238	500	
Zn	1-9	SOLID	S94T000266_DL	11 22	16.321	16.2543	16.4655	16.2424	1.4215	1000	
Zn	1-4	SOLID	S94T000266_D	11 25	19.148	19.0141	19.2806	19.1484	1.4215	500	
Zn	ZZZ	LIQ	ZZZ	11 30	5.161	5.1693	5.1581	5.1541	1	1	
Zn	INST QC	LIQ	CCV_2	11 33	5.139	5.1333	5.1489	5.1345	1	1	
Zn	INST QC	LIQ	CCB_2	11 36	0.040	0.0424	0.0402	0.0378	1	1	
Zn	INST QC	LIQ	CCV_3	12 50	5.154	5.1517	5.1557	5.1557	1	1	
Zn	INST QC	LIQ	CCB_3	12 53	0.033	0.0339	0.0334	0.033	1	1	
Zn	50X	SOLID	ZZZ	12 57	-51.674	-53.3339	-50.4755	-51.2134	0.5173	5000	
Zn	1-9	SOLID	S94T000276_L1	13 0	26.089	25.9397	26.2355	26.0925	0.5173	1000	
Zn	1-4	SOLID	S94T000276_L	13 3	33.152	33.5542	32.703	33.1992	0.5173	500	
Zn	POST 1-4	SOLID	ZZZ	13 6	981.294	980.7155	981.9018	981.264	0.5173	500	
Zn	1-9	SOLID	S94T000276_DL1	13 10	21.695	21.1611	22.464	21.4601	0.506	1000	
Zn	1-4	SOLID	S94T000276_DL	13 13	32.956	32.3278	33.4128	33.1277	0.506	500	
Zn	SAMPLE	SOLID	S94T000276	13 17	36.598	36.1207	36.7033	36.9701	0.5173	100	1.93
Zn	DUP	SOLID	S94T000276_D	13 22	36.398	35.8264	36.4665	36.9002	0.506	100	
Zn	INST QC	LIQ	CCV_4	13 27	5.276	5.2841	5.2831	5.2616	1	1	

Zn	ZZZ	LIQ	ZZZ	13 32	0.040	0.0439	0.039	0.0385	1	1	
Zn	INST QC	LIQ	CCB_4	13 36	0.037	0.0375	0.0369	0.0374	1	1	
Zn	1-9-1-4	LIQ	S94T000277_L1	13 45	-41.401	-41.8947	-39.3811	-42.9257	1.02	5000	
Zn	1-9	LIQ	S94T000277_L	13 48	3.246	3.1522	3.2199	3.3648	1.02	1000	
Zn	1-4	SOLID	S94T000277	13 51	8.080	7.9733	8.0798	8.1861	1.02	500	4.90
Zn	POST 1-4	SOLID	ZZZ	13 54	499.220	498.4835	498.3696	500.8067	1.02	500	
Zn	1-9	SOLID	S94T000277_DL	13 59	2.773	2.7478	2.6938	2.8778	1.1632	1000	
Zn	1-4	SOLID	S94T000277_D	14 2	7.860	7.8098	7.8389	7.9319	1.1632	500	
Zn	INST QC	LIQ	CCV_5	14 6	5.085	5.0864	5.0813	5.0885	1	1	
Zn	INST QC	LIQ	CCB_5	14 9	0.040	0.0419	0.0394	0.0384	1	1	
Zn	1-9-1-4	SOLID	S94T000278_L1	14 13	-43.236	-44.0173	-44.7487	-40.9405	0.5819	5000	
Zn	1-9	SOLID	S94T000278_L	14 16	20.048	20.4508	19.8492	19.8442	0.5819	1000	
Zn	1-4	SOLID	S94T000278	14 21	23.702	23.3158	24.2149	23.5764	0.5819	500	8.59
Zn	POST 1-4	SOLID	ZZZ	14 24	847.101	843.2329	848.6202	849.4497	0.5819	500	
Zn	1-9	SOLID	S94T000278_DL	14 28	13.000	12.8689	13.1216	13.0102	0.5829	1000	
Zn	1-4	SOLID	S94T000278_D	14 31	23.222	23.168	23.281	23.2178	0.5829	500	
Zn	INST QC	LIQ	CCV_6	14 37	5.161	5.1648	5.1727	5.1461	1	1	
Zn	INST QC	LIQ	CCB_6	14 39	0.008	0.0081	0.0077	0.0073	1	1	
Zn	INST QC	LIQ	ICSA	14 42	-0.008	-0.0082	-0.0083	-0.0083	1	1	
Zn	INST QC	LIQ	ICSAB	14 44	0.988	0.988	0.9888	0.9879	1	1	
Zn	INST QC	LIQ	CCV_7	14 49	5.012	4.9998	5.0117	5.0259	1	1	
Zn	INST QC	LIQ	CCB_7	14 51	0.015	0.0144	0.0135	0.016	1	1	
Zr	INST QC	LIQ	ICV	10 28	4.972	4.9751	4.9646	4.9768	1	1	
Zr	INST QC	LIQ	ICB	10 31	0.006	0.0061	0.0044	0.0071	1	1	
Zr	INST QC	LIQ	ICSA	10 34	0.004	0.0045	0.0039	0.0026	1	1	
Zr	INST QC	LIQ	ICSAB	10 37	0.001	0.0005	0.0022	0.0017	1	1	
Zr	INST QC	LIQ	CCV_1	10 48	5.008	5.0105	4.9936	5.0203	1	1	
Zr	INST QC	LIQ	CCB_1	10 51	0.004	0.0036	0.0034	0.0058	1	1	
Zr	LCSW	LIQ	PREPSTDARL	10 55	4.819	4.794	4.8334	4.8282	1	1	
Zr	PB	LIQ	PREPBLKARL	10 58	0.007	0.0075	0.0054	0.0078	1	1	
Zr	50X	SOLID	S94T000266_L1	11 2	32.530	38.0202	30.3768	29.1922	1.4238	5000	
Zr	ZZZ	SOLID	ZZZ	11 4	19.223	18.8258	14.7256	24.1186	1.4238	5000	
Zr	1-9	SOLID	S94T000266_L	11 10	3.525	3.1766	3.9873	3.4123	1.4238	1000	
Zr	1-4	SOLID	S94T000266	11 14	1.652	1.3995	1.9252	1.6299	1.4238	500	3.51
Zr	POST 1-4	SOLID	ZZZ	11 18	344.561	343.1974	344.2665	346.2195	1.4238	500	
Zr	1-9	SOLID	S94T000266_DL	11 22	1.590	1.3142	1.0802	2.3765	1.4215	1000	
Zr	1-4	SOLID	S94T000266_D	11 25	1.558	2.0489	1.4002	1.2256	1.4215	500	
Zr	ZZZ	LIQ	ZZZ	11 30	5.030	5.0401	5.0273	5.0218	1	1	
Zr	INST QC	LIQ	CCV_2	11 33	4.974	4.9719	4.9916	4.9578	1	1	
Zr	INST QC	LIQ	CCB_2	11 36	0.011	0.0127	0.012	0.0086	1	1	
Zr	INST QC	LIQ	CCV_3	12 50	5.016	5.0196	5.0137	5.0146	1	1	
Zr	INST QC	LIQ	CCB_3	12 53	0.008	0.0086	0.0082	0.0079	1	1	
Zr	50X	SOLID	ZZZ	12 57	27.156	23.3816	31.4055	26.6822	0.5173	5000	
Zr	1-9	SOLID	S94T000276_L1	13 0	3.772	4.0968	2.1629	5.0558	0.5173	1000	
Zr	1-4	SOLID	S94T000276_L	13 3	2.464	1.4404	3.5388	2.4133	0.5173	500	
Zr	POST 1-4	SOLID	ZZZ	13 6	941.502	940.8974	940.5874	943.022	0.5173	500	
Zr	1-9	SOLID	S94T000276_DL1	13 10	8.020	6.1488	9.7967	8.1145	0.506	1000	
Zr	1-4	SOLID	S94T000276_DL	13 13	4.780	2.7949	5.7769	5.7682	0.506	500	
Zr	SAMPLE	SOLID	S94T000276	13 17	0.877	1.0265	0.7053	0.9001	0.5173	100	1.93
Zr	DUP	SOLID	S94T000276_D	13 22	0.859	1.0789	0.6492	0.8499	0.506	100	
Zr	INST QC	LIQ	CCV_4	13 27	5.086	5.0912	5.0931	5.0722	1	1	
Zr	ZZZ	LIQ	ZZZ	13 32	0.010	0.0138	0.0083	0.0066	1	1	
Zr	INST QC	LIQ	CCB_4	13 36	0.005	0.0063	0.0049	0.0041	1	1	
Zr	1-9-1-4	LIQ	S94T000277_L1	13 45	9.623	12.6213	6.9289	9.3188	1.02	5000	
Zr	1-9	LIQ	S94T000277_L	13 48	3.740	2.426	4.2301	4.5636	1.02	1000	
Zr	1-4	SOLID	S94T000277	13 51	2.558	1.904	2.8025	2.9687	1.02	500	4.90
Zr	POST 1-4	SOLID	ZZZ	13 54	490.650	489.7359	487.843	494.3725	1.02	500	
Zr	1-9	SOLID	S94T000277_DL	13 59	6.725	7.3046	5.1441	7.727	1.1632	1000	
Zr	1-4	SOLID	S94T000277_D	14 2	3.207	2.3929	3.399	3.8301	1.1632	500	
Zr	INST QC	LIQ	CCV_5	14 6	4.912	4.92	4.9036	4.9117	1	1	
Zr	INST QC	LIQ	CCB_5	14 9	0.009	0.0122	0.0105	0.0056	1	1	
Zr	1-9-1-4	SOLID	S94T000278_L1	14 13	87.003	78.3644	97.0487	85.5966	0.5819	5000	
Zr	1-9	SOLID	S94T000278_L	14 16	63.004	65.3229	62.9978	60.6922	0.5819	1000	
Zr	1-4	SOLID	S94T000278	14 21	58.237	58.625	59.1885	56.8961	0.5819	500	8.59
Zr	POST 1-4	SOLID	ZZZ	14 24	875.973	872.9249	878.4378	876.5557	0.5819	500	
Zr	1-9	SOLID	S94T000278_DL	14 28	65.642	64.8787	66.8965	65.1519	0.5829	1000	
Zr	1-4	SOLID	S94T000278_D	14 31	54.981	53.9212	55.5141	55.5073	0.5829	500	
Zr	INST QC	LIQ	CCV_6	14 37	4.908	4.9117	4.92	4.8934	1	1	
Zr	INST QC	LIQ	CCB_6	14 39	0.010	0.0095	0.0093	0.0105	1	1	
Zr	INST QC	LIQ	ICSA	14 42	0.004	0.0034	0.0054	0.0029	1	1	
Zr	INST QC	LIQ	ICSAB	14 44	0.003	0.0051	0.0029	0.0022	1	1	

K	50X	SOLID	S94T000266_L1	11 2		5181.686	5265.74	5184.158	5095.159	1.4238	5000	
K	1-9	SOLID	S94T000266_L	11 10		3144.611	3110.495	3160.927	3162.41	1.4238	1000	
K	1-4	SOLID	S94T000266	11 14		2886.021	2876.874	2893.932	2887.257	1.4238	500	105
K	POST 1-4	SOLID	ZZZ	11 18		3240.284	3217.293	3231.384	3272.175	1.4238	500	
	1-9	SOLID	S94T000266_DL	11 22		3099.185	3084.328	3096.213	3117.013	1.4215	1000	
	1-4	SOLID	S94T000266_D	11 25		2930.309	2903.071	2946.157	2941.7	1.4215	500	
	50X	SOLID	ZZZ	12 57		3769.607	3674.346	3858.063	3776.411	0.5173	5000	
K	1-9	SOLID	S94T000276_L1	13 0		3230.703	3253.838	3204.846	3233.425	0.5173	1000	
K	1-4	SOLID	S94T000276_L	13 3		3129.998	3098.698	3139.525	3151.772	0.5173	500	
K	POST 1-4	SOLID	ZZZ	13 6		4177.867	4137.722	4203.044	4192.837	0.5173	500	
K	1-9	SOLID	S94T000276_DL1	13 10		3574.147	3589.45	3576.929	3556.06	0.506	1000	
K	1-4	SOLID	S94T000276_DL	13 13		3272.939	3220.071	3309.807	3288.938	0.506	500	
K	SAMPLE	SOLID	S94T000276	13 17	X	2684.178	2637.772	2697.378	2717.383	0.5173	100	158.0
K	DUP	SOLID	S94T000276_D	13 22		2751.634	2691.253	2761.79	2801.858	0.506	100	
K	1-9-1-4	LIQ	S94T000277_L1	13 45		3992.657	4027.165	3933.992	4016.813	1.02	5000	
K	1-9	LIQ	S94T000277_L	13 48		3260.382	3213.45	3287.989	3279.707	1.02	1000	
K	1-4	SOLID	S94T000277	13 51		3176.181	3169.969	3189.639	3168.934	1.02	500	147
K	POST 1-4	SOLID	ZZZ	13 54		3728.320	3730.045	3708.305	3746.61	1.02	500	
K	1-9	SOLID	S94T000277_DL	13 59		3185.208	3193.681	3164.631	3197.312	1.1632	1000	
K	1-4	SOLID	S94T000277_D	14 2		2895.011	2865.961	2910.443	2908.628	1.1632	500	
K	1-9-1-4	SOLID	S94T000278_L1	14 13		5552.941	5462.207	5734.41	5462.207	0.5819	5000	
K	1-9	SOLID	S94T000278_L	14 16		3640.262	3625.744	3647.52	3647.52	0.5819	1000	
K	1-4	SOLID	S94T000278	14 21		3314.828	3273.695	3293.656	3377.132	0.5819	500	258
K	POST 1-4	SOLID	ZZZ	14 24		4200.395	4152.003	4213.703	4235.479	0.5819	500	
K	1-9	SOLID	S94T000278_DL	14 28		3778.942	3713.726	3804.304	3818.797	0.5829	1000	
K	1-4	SOLID	S94T000278_D	14 31		3385.227	3345.976	3402.135	3407.57	0.5829	500	
Na	50X	SOLID	S94T000266_L1	11 2		152803.067	151503	154417.2	152489	1.4238	5000	
Na	1-9	SOLID	S94T000266_L	11 10		149563.532	149440.8	149007	150242.8	1.4238	1000	70.2
Na	1-4	SOLID	S94T000266	11 14		141353.186	141412.6	141496.6	141150.4	1.4238	500	
Na	POST 1-4	SOLID	ZZZ	11 18		141447.892	140257.8	140927.6	143158.2	1.4238	500	
Na	1-9	SOLID	S94T000266_DL	11 22		149236.363	149559.7	149979.6	148169.7	1.4215	1000	
Na	1-4	SOLID	S94T000266_D	11 25		142883.856	141798	143443.3	143410.3	1.4215	500	
Na	50X	SOLID	ZZZ	12 57		168993.372	169060.4	169160.9	168758.8	0.5173	5000	
Na	1-9	SOLID	S94T000276_L1	13 0		162990.587	162982.5	162950.4	163038.8	0.5173	1000	
Na	1-4	SOLID	S94T000276_L	13 3		159232.647	158924.4	158624.9	160148.7	0.5173	500	196.7
Na	POST 1-4	SOLID	ZZZ	13 6		160902.540	159461.1	161358.9	161887.6	0.5173	500	
Na	1-9	SOLID	S94T000276_DL1	13 10		166904.522	168706.3	166905.9	165101.4	0.506	1000	
Na	1-4	SOLID	S94T000276_DL	13 13		162767.396	163180.5	163236	161885.7	0.506	500	
Na	SAMPLE	SOLID	S94T000276	13 17		135047.141	133525.1	135500.4	136116	0.5173	100	
Na	DUP	SOLID	S94T000276_D	13 22		135946.704	133794.5	136546.4	137499.2	0.506	100	
Na	1-9-1-4	LIQ	S94T000277_L1	13 45		158222.814	158158.2	158606.8	157903.4	1.02	5000	
Na	1-9	LIQ	S94T000277_L	13 48		152584.065	152304.7	152461.7	152985.8	1.02	1000	198.0
Na	1-4	SOLID	S94T000277	13 51		148288.392	148683.6	148546	147635.5	1.02	500	
Na	POST 1-4	SOLID	ZZZ	13 54		151414.987	151115.2	149914.2	153215.5	1.02	500	
Na	1-9	SOLID	S94T000277_DL	13 59		141372.061	140984.1	142157	140975.1	1.1632	1000	
Na	1-4	SOLID	S94T000277_D	14 2		135858.889	136308.6	135876.8	135391.3	1.1632	500	
Na	1-9-1-4	SOLID	S94T000278_L1	14 13		195875.872	196471.6	194362.8	196793.3	0.5819	5000	
Na	1-9	SOLID	S94T000278_L	14 16		187767.049	187183.3	187197.5	188920.3	0.5819	1000	172
Na	1-4	SOLID	S94T000278	14 21		180544.048	180074.6	178941.6	182615.9	0.5819	500	
Na	POST 1-4	SOLID	ZZZ	14 24		183529.750	182705.3	184213.6	183670.3	0.5819	500	
Na	1-9	SOLID	S94T000278_DL	14 28		185723.891	184400.1	186426.8	186344.7	0.5829	1000	
Na	1-4	SOLID	S94T000278_D	14 31		181485.541	180969.9	181908.4	181578.3	0.5829	500	

File # 950506A

02/13/95 11:45
A-0004-0

LABCORE Data Entry Template for Worklist# 577

Analyst: B. Goecke **Instrument:** ICP01 **Method:** LA-505-151 **Book#** 38648A
Rev/Mod D-1

Worklist Comment: ICP Fusion SY103 rerun

WHC-SD-WM-DP-074, REV. 0

Seq	Type	Sample#	R	A	Test	Matrix	Analytes Requested
1	ICV				@ICP-QC	QC	
2	ICB				@ICP-QC	QC	
3	ICSA				@ICP-QC	QC	
4	ICSAB				@ICP-QC	QC	
5	PREPBLKARL				@ICP-F02	SOLID	
6	SAMPLE	S94T000299	0	F	@ICP-F02	SOLID	CR-F-01
7	DUP	S94T000299	0	F	@ICP-F02	SOLID	
8	CCV				@ICP-QC	QC	
9	CCB				@ICP-QC	QC	
10	SAMPLE	S94T000300	0	F	@ICP-F02	SOLID	AL-F-01 , CR-F-01 , FE-F-01
11	DUP	S94T000300	0	F	@ICP-F02	SOLID	
12	ICSA				@ICP-QC	QC	
13	ICSAB				@ICP-QC	QC	
14	CCV				@ICP-QC	QC	
15	CCB				@ICP-QC	QC	

Final page for worklist # 577

B. Goecke 3-6-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Preparation Blank data refers to final digestion volume. Comparison with sample data requires appropriate application of dilution factors for each sample to the Preparation Blank result. used in Pkg 72

953

ICP - Units Conversion

Units Choice = ppm 3

WHC-SD-WM-DP-074, REV. 0

Work List
577
Test Code
@ICP-F02
Matrix
FUSION
Sample #
S94T000299
Instrument Code
1
Analyst
BJG
Date
03/06/95
Time
13:13
Serial No.:
WB39939
Customer ID:
SAMPLE 10X

ANALYTE		VALUE (µg/mL)	RESULT (ppm)
Ag			
Al			
As			
B			
Ba			
Be			
Bi			
Ca			
Cd			
Ce			
Co			
Cr	<	95.347	95.347
Cu			
Eu			
Fe			
Ga			
Gd			
Hg			
In			
K			
La			
Li			
Mg			
Mn			
Mo			
Na			
Nb			
Nd			
Ni			
P			
Pb			
Pd			
Pr			
Pu			
Rb			
Rh			
Ru			
S			
Sb			
Se			
Si			
Sm			
Sn			
Sr			
Ta			
Te			
Th			
Ti			
Tl			
U			
V			
W			
Y			
Zn			
Zr			

ICP - Units Conversion

Units Choice = ppm 3

WHC-SD-WM-DP-074, REV. 0

Work List
577
Test Code
@ICP-F02
Matrix
FUSION
Sample #
S94T000300
Instrument Code
1
Analyst
BJG
Date
03/06/95
Time
13:13
Serial No.:
WB39939
Customer ID:
SAMPLE 10X

ANALYTE		VALUE (µg/mL)	RESULT (ppm)
Ag			
Al		39710.460	39710.460
As			
B			
Ba			
Be			
Bi			
Ca			
Cd			
Ce			
Co			
Cr		10744.031	10744.031
Cu			
Eu			
Fe		2858.560	2858.560
Ga			
Gd			
Hg			
In			
K			
La			
Li			
Mg			
Mn			
Mo			
Na			
Nb			
Nd			
Ni			
P			
Pb			
Pd			
Pr			
Pu			
Rb			
Rh			
Ru			
S			
Sb			
Se			
Si			
Sm			
Sn			
Sr			
Ta			
Te			
Th			
Ti			
Tl			
U			
V			
W			
Y			
Zn			
Zr			

ICP - Units Conversion

Units Choice = ppm 3

WHC-SD-WM-DP-074, REV. 0

Work List
577
Test Code
@ICP-F02
Matrix
FUSION
Sample #
S94T000299_D
Instrument Code
1
Analyst
BJG
Date
03/06/95
Time
13:13
Serial No.:
WB39939
Customer ID:
DUP 10X

ANALYTE		VALUE (µg/mL)	RESULT (ppm)
Ag			
Al			
As			
B			
Ba			
Be			
Bi			
Ca			
Cd			
Ce			
Co			
Cr		93.190	93.190
Cu			
Eu			
Fe			
Ga			
Gd			
Hg			
In			
K			
La			
Li			
Mg			
Mn			
Mo			
Na			
Nb			
Nd			
Ni			
P			
Pb			
Pd			
Pr			
Pu			
Rb			
Rh			
Ru			
S			
Sb			
Se			
Si			
Sm			
Sn			
Sr			
Ta			
Te			
Th			
Ti			
Tl			
U			
V			
W			
Y			
Zn			
Zr			

956

ICP - Units Conversion

Units Choice = ppm 3

WHC-SD-WM-DP-074, REV.

Work List
577
Test Code
@ICP-F02
Matrix
FUSION
Sample #
S94T000300_D
Instrument Code
1
Analyst
BJG
Date
03/06/95
Time
13:13
Serial No.:
WB39939
Customer ID:
DUP 10X

ANALYTE		VALUE (µg/mL)	RESULT (ppm)
Ag			
Al		39373.315	39373.315
As			
B			
Ba			
Be			
Bi			
Ca			
Cd			
Ce			
Co			
Cr		9702.361	9702.361
Cu			
Eu			
Fe		2553.284	2553.284
Ga			
Gd			
Hg			
In			
K			
La			
Li			
Mg			
Mn			
Mo			
Na			
Nb			
Nd			
Ni			
P			
Pb			
Pd			
Pr			
Pu			
Rb			
Rh			
Ru			
S			
Sb			
Se			
Si			
Sm			
Sn			
Sr			
Ta			
Te			
Th			
Ti			
Tl			
U			
V			
W			
Y			
Zn			
Zr			

ICP - Units Conversion

Units Choice = ppm 3

WHC-SD-WM-DP-074, REV. 0

Work List
577
Test Code
@ICP-F02
Matrix
FUSION
Sample #
PREPBLKARL
Instrument Code
1
Analyst
BJG
Date
03/06/95
Time
13:08
Serial No.:
WB39939
Customer ID:
PB 1-9

ANALYTE		VALUE (µg/mL)	RESULT (ppm)
Ag	<	0.046	0.046
Al		5.427	5.427
As	<	0.028	0.028
B	<	0.288	0.288
Ba	<	0.072	0.072
Be	<	0.044	0.044
Bi	<	-0.162	-0.162
Ca	<	0.784	0.784
Cd	<	0.055	0.055
Ce	<	-0.678	-0.678
Co	<	0.060	0.060
Cr	<	0.089	0.089
Cu	<	0.089	0.089
Eu			
Fe		4.319	4.319
Ga			
Gd			
Hg			
In			
K		11669.000	11669.000
La	<	-0.590	-0.590
Li	<	0.050	0.050
Mg	<	0.674	0.674
Mn		0.105	0.105
Mo	<	0.024	0.024
Na		9.613	9.613
Nb			
Nd	<	0.050	0.050
Ni		5.420	5.420
P	<	0.084	0.084
Pb	<	0.264	0.264
Pd			
Pr			
Pu			
Rb			
Rh			
Ru			
S		0.584	0.584
Sb	<	0.270	0.270
Se	<	0.249	0.249
Si		0.553	0.553
Sm	<	-0.212	-0.212
Sn			
Sr	<	0.038	0.038
Ta			
Te			
Th			
Ti	<	0.026	0.026
Tl	<	-0.477	-0.477
U	<	-1.042	-1.042
V	<	0.024	0.024
W			
Y			
Zn		1.237	1.237
Zr	<	0.047	0.047

958

LABCORE Data Entry Template for Worklist# 721

3-20-95

Analyst: JK Sato **Instrument:** ICP01 Rev Hook **Book#** 38B48a

141 3-20-95 5/3/28/95

Method: LA-505-~~151~~ Rev/Mod A-1

WHC-SD-WM-DP-074, REV. 0

Worklist Comment: ICP SY103 ACID DIGEST Li ONLY

ACID DIGEST OF FILTER FROM SEG 15 DL TO TEST FOR PRESENCE OF Li ALONE

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A03	SOLID		
6	PREPBLKTJA				@ICP-A03	SOLID		
7	SAMPLE	S95T000156	0	A	@ICP-A03	SOLID	94000001	SY-103
	Analytes Requested: LI-A-01							
8	DUP	S95T000156	0	A	@ICP-A03	SOLID		
9	ICSA				@ICP-QC	QC		
10	ICSAB				@ICP-QC	QC		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		

Final page for worklist # 721

JK Sato 03-17-95

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 721

3-17-95

Analyst: JK Sato **Instrument:** ICP01 **Book#** 38848a

Method: LA-505-151 Rev/Mod _____

WHC-SD-WM-DP-074, REV. 0

Worklist Comment: ICP SY103 ACID DIGEST Li ONLY

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
	Prepstd TJa							
5	PREPBLKTJA				@ICP-F03	SOLID		
6	SAMPLE	S95T000156	0	A	@ICP-F03	SOLID	94000001	SY-103
	Analytes Requested: LI-F-01							
7	DUP	S95T000156	0	A	@ICP-F03	SOLID		
8	ICSA				@ICP-QC	QC		
9	ICSAB				@ICP-QC	QC		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		

Final page for worklist # 721

JK Sato 03-17-95

Analyst Signature **Date**

Analyst Signature **Date**

D.F. $\frac{100}{2.7389} \times \frac{12}{2} = 219.066$

D.L. for Li = 2.19

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950317A	ICP2	03/17/95	09:05	DKS	Q	CONC
2	ICB	950317A	ICP2	03/17/95	09:09	DKS	Q	CONC
3	ICSA	950317A	ICP2	03/17/95	09:12	DKS	Q	CONC
4	ICSAB	950317A	ICP2	03/17/95	09:16	DKS	Q	CONC
5	PREPSTDTJA	950317A	ICP2	03/17/95	09:24	DKS	S	CONC
6	PREPBLKTJA	950317A	ICP2	03/17/95	09:28	DKS	S	CONC
7	S95T000156_L	950317A	ICP2	03/17/95	09:33	DKS	S	CONC
8	S95T000156	950317A	ICP2	03/17/95	09:38	DKS	S	CONC
9	S95T000156_D	950317A	ICP2	03/17/95	09:42	DKS	S	CONC
10	ICSA	950317A	ICP2	03/17/95	09:49	DKS	Q	CONC
11	ICSAB	950317A	ICP2	03/17/95	09:52	DKS	Q	CONC
12	CCV_1	950317A	ICP2	03/17/95	10:01	DKS	Q	CONC
13	CCB_1	950317A	ICP2	03/17/95	10:06	DKS	Q	CONC

WHC-SD-WM-DP-074, REV. 0

3-17-95

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SY-105 S95T000156

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.977	5.054	5.171	5.017	5.128	5.048
2	ICB	.0012	-.0006	.0269	.0016	.0002	.0001
3	ICSA	-.0011	252.3	-.0212	-.0007	.0001	.0002
4	ICSAB	1.010	252.2	-.0059	.0024	.4913	.4906
5	PREPSTDTJA	.8351	4.949	4.938	4.860	4.945	5.077
6	PREPBLKTJA	-.0020	.0106	-.0002	.0022	.0001	.0002
7	S95T000156_L	-.2685	8340.	-11.61	44.00	1.072	-.0041
8	S95T000156_	.7908	7697.	-11.99	40.67	1.056	.0536
9	S95T000156_D	.5554	7730.	-10.64	41.98	1.046	.0813
10	ICSA	-.0020	250.0	-.0359	.0051	-.0001	.0003
11	ICSAB	1.013	249.3	-.0460	.0016	.4792	.4849
12	CCV_1	5.071	5.155	5.325	5.137	5.239	5.216
13	CCB_1	-.0002	.0065	.0410	.0000	.0002	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.097	5.074	5.060	5.018	5.141	5.105
2	ICB	.0266	.0090	.0008	.0062	.0038	.0001
3	ICSA	.0376	252.9	.0007	.0054	.0013	-.0043
4	ICSAB	.0652	257.6	.9755	.0041	.4874	.4756
5	PREPSTDTJA	4.817	4.915	4.818	4.898	4.930	4.858
6	PREPBLKTJA	.0306	.0214	-.0001	.0039	.0013	-.0002
7	S95T000156_L	34.11	170.8	4.242	14.01	4.798	645.7
8	S95T000156_	3.315	146.2	3.099	6.131	1.013	597.8
9	S95T000156_D	4.439	146.2	3.337	4.850	1.080	601.8
10	ICSA	.0682	255.6	.0018	.0007	.0025	-.0053
11	ICSAB	.0869	259.3	.9674	.0045	.4824	.4716
12	CCV_1	5.223	5.339	5.221	5.164	5.290	5.256
13	CCB_1	.0435	.0179	.0016	.0118	.0022	.0009

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.997	.0034	5.103	4.877	5.137	4.930
2	ICB	-.0000	.0011	.0016	.1957	.0010	.0012
3	ICSA	-.0082	-.0533	93.77	.1147	-.0017	.0034
4	ICSAB	.4801	-.0586	94.42	-.0124	-.0014	:9784
5	PREPSTDTJA	4.726	.0024	4.906	4.826	5.020	4.827
6	PREPBLKTJA	.0000	-.0004	.0072	.0839	.0005	-.0002
7	S95T000156_L	9.966	.9616	304.1	1742.	5.614	201.6
8	S95T000156_	8.961	.0748	281.3	1602.	4.362	192.1
9	S95T000156_D	8.907	.0534	284.0	1626.	4.142	192.9
10	ICSA	-.0089	-.0645	93.57	-.0352	-.0016	.0035
11	ICSAB	.4698	-.0684	93.85	.0737	-.0020	.9602
12	CCV_1	5.114	.0033	5.253	4.930	5.279	5.016
13	CCB_1	.0002	.0014	.0030	.0926	.0005	.0011

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.036	5.014	5.098	4.900	5.068	5.013
2	ICB	.0003	.0007	.0069	.0072	.0013	-.0009
3	ICSA	253.0	-.0043	-.0110	200.4	.0030	-.0269
4	ICSAB	251.6	.4673	-.0133	197.6	-.0024	.9251
5	PREPSTDTJA	4.834	4.773	4.934	4.742	4.813	4.810
6	PREPBLKTJA	-.0003	.0005	.0039	.0132	-.0001	-.0084
7	S95T000156_L	14.20	60.79	49.43	108000.	9.090	37.32
8	S95T000156_	9.088	55.97	42.29	99130.	6.771	37.86
9	S95T000156_D	8.347	56.34	42.61	99210.	6.213	40.03
10	ICSA	251.2	-.0039	-.0097	196.4	-.0054	-.0252
11	ICSAB	249.5	.4644	-.0145	193.4	-.0019	.9458
12	CCV_1	5.154	5.123	5.251	5.010	5.195	5.137
13	CCB_1	.0068	.0008	.0039	.0082	.0023	.0009

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.151	5.006	5.084	4.810	5.143	4.822
2	ICB	.0352	.0345	.0025	-.0014	.0246	.0234
3	ICSA	-.0223	-.0770	-.0359	-.0031	.1241	.0553
4	ICSAB	-.0117	.9034	-.0348	-.0132	.1469	.0839
5	PREPSTDTJA	5.042	4.748	4.787	4.563	4.879	5.669
6	PREPBLKTJA	.0319	.0203	.0404	.0034	.0267	.0183
7	S95T000156_L	995.1	51.49	1238.	-8.182	19.72	105.9
8	S95T000156_	919.7	30.14	1132.	.2997	3.982	82.04
9	S95T000156_D	939.1	32.20	1148.	1.431	8.264	83.43
10	ICSA	-.0160	-.0360	-.0547	.0045	.1459	.0505
11	ICSAB	-.0065	.9478	-.0269	.0065	.1639	.0889
12	CCV_1	5.450	5.169	5.198	4.943	5.223	4.906
13	CCB_1	.0434	.0387	-.0073	.0140	.0409	.0142

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.196	5.076	-.0656	4.967	4.983	9.670
2	ICB	.0096	.0006	.0022	.0003	-.0090	.0463
3	ICSA	.0024	.0013	-.0284	.0010	.0943	.0268
4	ICSAB	.0044	.0015	-.0245	.0015	.1015	.0033
5	PREPSTDTJA	5.080	4.971	-.0663	4.858	4.740	9.460
6	PREPBLKTJA	-.0064	.0000	.0016	-.0003	.0146	-.0068
7	S95T000156_L	11.31	1.021	3.722	.5543	.9044	123.4
8	S95T000156_	.6919	.4878	4.922	.7538	-.1701	75.59
9	S95T000156_D	.1236	.4878	4.142	.6992	-4.188	77.97
10	ICSA	.0043	.0011	-.0296	.0005	.0714	.0089
11	ICSAB	.0072	.0014	-.0242	.0017	.0964	.0067
12	CCV_1	5.338	5.222	-.0609	5.123	5.208	9.913
13	CCB_1	.0147	.0006	.0000	.0005	.0003	.0636

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#	Sample Name	V	Y	Zn	Zr
1	ICV	5.127	.0109	5.120	5.074
2	ICB	.0029	.0005	.0004	.0022
3	ICSA	.0015	.0071	-.0149	.0006
4	ICSAB	.4922	.0071	.9880	.0001
5	PREPSTDTJA	4.883	.0096	4.763	4.928
6	PREPBLKTJA	-.0006	-.0003	.0077	-.0012
7	S95T000156_L	2.693	1.459	12.35	7.304
8	S95T000156	.0627	.9094	10.32	5.099
9	S95T000156_D	.2443	.8751	11.35	5.159
10	ICSA	.0034	.0073	-.0123	.0039
11	ICSAB	.4890	.0074	.9894	.0033
12	CCV_1	5.280	.0114	5.232	5.212
13	CCB_1	.0039	.0008	.0009	.0031

WHC-SD-WM-DP-074, REV. 0

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DK Lab
3-17-95
59-103 S95T000156

File: 950406a

LABCORE Data Entry Template for Worklist# 798

Analyst: JK Sato 4-6-95 **Instrument:** ICP01 4-6-95 **Book#** 40B48a

Method: LA-505-~~151~~ 161 4-6-95 Rev/Mod a-1

WHC-SD-WM-DP-074, REV. 0

Worklist Comment: ICP SY_103 ACID DIGEST

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-B01	LIQUID		
6	PREPBLKTJA				@ICP-B01	LIQUID		
7	SAMPLE	S95T000323	0	B	@ICP-B01	LIQUID	94000020	SY-103
	Analytes Requested:	AL-B-01 , B-B-01 , BA-B-01 , BI-B-01 , CA-B-01 , CR-B-01 , FE-B-01 , K-B-01 , LI-B-01 , NA-B-01 , NI-B-01 , P-B-01 , SI-B-01 , U-B-01 , ZN-B-01 , ZR-B-01						
8	DUP	S95T000323	0	B	@ICP-B01	LIQUID		
9	SAMPLE	S95T000324	0	B	@ICP-B01	LIQUID	94000020	SY-103
	Analytes Requested:	AL-B-01 , B-B-01 , BA-B-01 , BI-B-01 , CA-B-01 , CR-B-01 , FE-B-01 , K-B-01 , LI-B-01 , NA-B-01 , NI-B-01 , P-B-01 , SI-B-01 , U-B-01 , ZN-B-01 , ZR-B-01						
10	DUP	S95T000324	0	B	@ICP-B01	LIQUID		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		
13	SAMPLE	S95T000325	0	B	@ICP-B01	LIQUID	94000020	SY-103
	Analytes Requested:	AL-B-01 , B-B-01 , BA-B-01 , BI-B-01 , CA-B-01 , CR-B-01 , FE-B-01 , K-B-01 , LI-B-01 , NA-B-01 , NI-B-01 , P-B-01 , SI-B-01 , U-B-01 , ZN-B-01 , ZR-B-01						
14	DUP	S95T000325	0	B	@ICP-B01	LIQUID		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 798

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
15	SAMPLE	S95T000326	0	B	@ICP-B01	LIQUID	94000020	SY-103
	Analytes Requested:	AL-B-01 , B-B-01 , BA-B-01 , BI-B-01 , CA-B-01 , CR-B-01 , FE-B-01 , K-B-01 , LI-B-01 , NA-B-01 , NI-B-01 , P-B-01 , SI-B-01 , U-B-01 , ZN-B-01 , ZR-B-01						
16	DUP	S95T000326	0	B	@ICP-B01	LIQUID		
17	SAMPLE	S95T000327	0	B	@ICP-B01	LIQUID	94000020	SY-103
	Analytes Requested:	AL-B-01 , B-B-01 , BA-B-01 , BI-B-01 , CA-B-01 , CR-B-01 , FE-B-01 , K-B-01 , LI-B-01 , NA-B-01 , NI-B-01 , P-B-01 , SI-B-01 , U-B-01 , ZN-B-01 , ZR-B-01						
18	DUP	S95T000327	0	B	@ICP-B01	LIQUID		
19	ICSA				@ICP-QC	QC		
20	ICSAB				@ICP-QC	QC		
21	CCV				@ICP-QC	QC		
22	CCB				@ICP-QC	QC		

WHC-SD-WM-DP-074, REV. 0

Final page for worklist # 798

JK [illegible] 04-06-95

Analyst Signature **Date**

S95T000323_L	2.5 ml in 50 ml,	.5-10 ml,	DF 2100
S95T000323		.5-10	420
S95T000323_D		.5-10	420
S95T000324_L	2.5 ml in 50 ml,	.5-10-2.8 ml,	DF 2100
S95T000324		.5-10	420
S95T000324_D		.5-10	420
S95T000325_L	2.5 ml in 50 ml,	.5-10-2.8 ml	DF 2100
S95T000325_		.5-10	420
S95T000325_D		.5-10	420

Analyst Signature **Date**

S95T000326_L,	.5-10-2.8 ml,	DF 2100,	2.5 ml in 50 ml
S95T000326	.5-10	420	
S95T000326_D	.5-10	420	
S95T000327_L	2.5 ml in 50 ml,	1-10-2.8 ml,	DF 1100
S95T000327	DK 4-6-95	~~.5~~ 1-10	420
S95T000327_D		1-10	420

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Analysis Report Summary Thu 04-06-95 03:32:26 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950406A	ICP2	04/06/95	13:11	DKS	Q	CONC
2	ICB	950406A	ICP2	04/06/95	13:15	DKS	Q	CONC
3	ICSA	950406A	ICP2	04/06/95	13:18	DKS	Q	CONC
4	ICSAB	950406A	ICP2	04/06/95	13:22	DKS	Q	CONC
5	PREPSTDTJA	950406A	ICP2	04/06/95	13:28	DKS	S	CONC
6	PREPBLKTJA	950406A	ICP2	04/06/95	13:32	DKS	S	CONC
7	S95T000323_L	950406A	ICP2	04/06/95	13:37	DKS	S	CONC
8	S95T000323	950406A	ICP2	04/06/95	13:41	DKS	S	CONC
9	S95T000323_D	950406A	ICP2	04/06/95	13:46	DKS	S	CONC
10	S95T000324_L	950406A	ICP2	04/06/95	13:56	DKS	S	CONC
11	S95T000324	950406A	ICP2	04/06/95	14:00	DKS	S	CONC
12	S95T000324_D	950406A	ICP2	04/06/95	14:04	DKS	S	CONC
13	CCV_1	950406A	ICP2	04/06/95	14:15	DKS	Q	CONC
14	CCB_1	950406A	ICP2	04/06/95	14:19	DKS	Q	CONC
15	S95T000325_L	950406A	ICP2	04/06/95	14:23	DKS	S	CONC
16	S95T000325	950406A	ICP2	04/06/95	14:27	DKS	S	CONC
17	S95T000325_D	950406A	ICP2	04/06/95	14:31	DKS	S	CONC
18	S95T000326_L	950406A	ICP2	04/06/95	14:36	DKS	S	CONC
19	S95T000326	950406A	ICP2	04/06/95	14:40	DKS	S	CONC
20	S95T000326_D	950406A	ICP2	04/06/95	14:44	DKS	S	CONC
21	CCV_2	950406A	ICP2	04/06/95	14:52	DKS	Q	CONC
22	CCB_2	950406A	ICP2	04/06/95	14:56	DKS	Q	CONC
23	S95T000327_L	950406A	ICP2	04/06/95	14:59	DKS	S	CONC
24	S95T000327	950406A	ICP2	04/06/95	15:04	DKS	S	CONC
25	S95T000327_D	950406A	ICP2	04/06/95	15:08	DKS	S	CONC
26	ICSA	950406A	ICP2	04/06/95	15:14	DKS	Q	CONC
27	ICSAB	950406A	ICP2	04/06/95	15:18	DKS	Q	CONC
28	CCV_3	950406A	ICP2	04/06/95	15:23	DKS	Q	CONC
29	CCB_3	950406A	ICP2	04/06/95	15:27	DKS	Q	CONC

DK Lold
4-6-95
SY-103

WHC-SD-WM-DP-074, REV. 0

S95T000323
S95T000324
S95T000325
S95T000326
S95T000327

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.176	4.977	5.086	4.913	4.880	5.109
2	ICB	.0011	-.0056	.0057	.0054	.0001	-.0001
3	ICSA	.0021	245.4	.0004	.0065	.0019	.0001
4	ICSAB	.9983	241.6	-.0377	.0023	.4662	.4910
5	PREPSTDTJA	.9212	4.819	4.850	4.731	4.709	5.143
6	PREPBLKTJA	.0029	.0147	.0170	.0011	.0003	.0000
7	S95T000323_L	-.0384	24460.	-23.77	54.37	.6337	-.2713
8	S95T000323	.8271	24220.	-29.15	56.85	.3593	.1059
9	S95T000323_D	.2154	24070.	-32.59	52.55	.3572	.1601
10	S95T000324_L	-.7648	40650.	-15.60	83.79	.1048	.3561
11	S95T000324	.3795	40480.	-48.89	86.50	.1117	.2313
12	S95T000324_D	.3060	42210.	-54.02	90.80	.1120	.2135
13	CCV_1	5.217	5.071	5.184	5.053	5.016	5.270
14	CCB_1	.0011	.0083	.0054	.0065	.0001	-.0001
15	S95T000325_L	2.668	37670.	-66.21	90.57	.1048	-.0013
16	S95T000325	.5295	37170.	-35.15	81.06	.0935	.1959
17	S95T000325_D	.6833	37980.	-49.89	81.06	.1288	.2136
18	S95T000326_L	3.025	5255.	-104.5	61.15	.1184	-.0033
19	S95T000326	.5299	5151.	-109.5	62.95	.0564	.0353
20	S95T000326_D	.1485	4324.	-99.50	54.34	.0363	.0352
21	CCV_2	5.228	5.075	5.204	5.022	5.017	5.250
22	CCB_2	.0022	.0036	.0083	-.0011	-.0000	.0001
23	S95T000327_L	.9934	3153.	-119.3	35.59	.0489	.1400
24	S95T000327	.0382	3077.	-155.6	33.21	.0573	.0650
25	S95T000327_D	.1203	3063.	-153.0	34.39	.1404	.0274
26	ICSA	.0005	243.8	.0095	.0023	.0019	.0002
27	ICSAB	1.007	243.3	.0083	-.0043	.4675	.4970
28	CCV_3	5.192	5.080	5.220	5.042	5.018	5.276
29	CCB_3	.0022	.0008	.0131	.0016	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.079	5.186	5.083	4.999	5.110	5.117
2	ICB	.0099	.0080	.0001	-.0003	-.0006	-.0004
3	ICSA	.0556	252.4	.0014	.0097	-.0003	-.0023
4	ICSAB	.0574	253.0	.9522	.0098	.4731	.4680
5	PREPSTDTJA	4.642	4.903	4.768	4.860	4.870	4.842
6	PREPBLKTJA	-.0230	.0166	-.0004	.0098	.0000	-.0000
7	S95T000323_L	5.735	94.70	2.556	7.204	.6607	163.6
8	S95T000323	-8.046	82.69	2.656	3.594	-.1375	161.8
9	S95T000323_D	-.6341	74.94	1.781	1.317	-.3983	160.6
10	S95T000324_L	44.42	132.7	6.950	-.6667	-.0054	33.34
11	S95T000324	2.327	119.4	3.127	2.296	-.7978	32.62
12	S95T000324_D	-10.89	117.2	3.050	2.438	.5065	33.90
13	CCV_1	5.123	5.285	5.185	5.172	5.192	5.202
14	CCB_1	-.0055	.0048	-.0004	.0084	-.0015	-.0003
15	S95T000325_L	25.59	129.7	3.242	3.608	1.951	37.75
16	S95T000325	6.477	115.5	2.823	.8767	-.0153	37.08
17	S95T000325_D	1.123	115.2	2.740	1.162	.2449	37.92
18	S95T000326_L	15.78	160.3	-.0687	5.793	1.967	35.59
19	S95T000326	3.527	135.5	-.1691	-.4031	.7741	34.95
20	S95T000326_D	.2301	108.6	-.3116	1.149	-.3991	29.66

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
		ND<4.2					
21	CCV_2	5.120	5.303	5.184	5.159	5.200	5.216
22	CCB_2	.0236	.0061	-.0004	-.0010	.0012	.0002
23	S95T000327_L	27.08	82.33	1.188	-.7291	-1.715	5.735
24	S95T000327_	-4.223	75.22	.6035	.9802	.8781	5.489
25	S95T000327_D	5.356	86.42	.5383	1.799	.3326	5.240
26	ICSA	.0555	255.5	-.0009	.0116	.0009	-.0031
27	ICSAB	.0710	258.8	.9657	.0067	.4815	.4770
28	CCV_3	5.128	5.272	5.144	5.167	5.156	5.171
29	CCB_3	.0436	.0062	.0003	-.0040	.0000	.0000

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.966	.0073	5.059	4.881	4.932	4.909
2	ICB	-.0000	.0011	.0014	-.0924	.0003	.0012
3	ICSA	-.0077	-.0024	92.48	.1726	-.0007	.0036
4	ICSAB	.4738	-.0059	92.10	.2481	-.0012	.9555
5	PREPSTDTJA	4.745	.0057	4.759	5.010	4.809	4.711
6	PREPBLKTJA	.0005	-.0005	.0053	.0738	.0011	-.0002
7	S95T000323_L	2.385	2.154	54.81	2184.	2.151	2.424
8	S95T000323_	2.321	.6511	49.76	2324.	1.310	1.212
9	S95T000323_D	2.322	.5471	50.08	2307.	1.228	1.172
10	S95T000324_L	3.422	1.222	9.080	3632.	.1935	1.414
11	S95T000324_	3.965	.7439	6.857	3820.	.5797	.9697
12	S95T000324_D	3.869	.6870	6.993	4004.	.2308	.8889
13	CCV_1	5.124	.0064	5.167	5.101	5.091	5.024
14	CCB_1	-.0007	.0003	.0005	.1771	.0008	.0006
15	S95T000325_L	5.466	1.331	12.43	3644.	.4764	3.838
16	S95T000325_	4.865	.6434	10.70	3495.	.1290	3.313
17	S95T000325_D	4.966	.6638	11.28	3639.	.4750	3.394
18	S95T000326_L	3.928	2.026	13.43	1689.	1.334	7.071
19	S95T000326_	3.680	.4573	9.576	1558.	.3311	3.838
20	S95T000326_D	3.188	.2354	7.700	1264.	.2364	3.192
21	CCV_2	5.109	.0069	5.172	5.220	5.094	5.027
22	CCB_2	.0000	.0004	.0012	.1452	.0004	.0007
23	S95T000327_L	21.75	.1896	3.027	1365.	-.2881	71.53
24	S95T000327_	20.91	.2529	2.339	1188.	-.1114	69.14
25	S95T000327_D	20.71	.2743	2.969	1191.	-.0169	68.74
26	ICSA	-.0084	-.0126	92.82	.0879	-.0017	.0033
27	ICSAB	.4762	-.0148	93.47	.0951	-.0014	.9522
28	CCV_3	5.134	.0064	5.140	5.047	5.100	5.062
29	CCB_3	-.0002	.0001	.0014	-.0639	-.0003	.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.992	4.982	5.048	4.912	5.088	5.026
2	ICB	-.0006	.0004	.0028	.0056	.0007	-.0058
3	ICSA	245.7	-.0044	-.0138	192.2	.0035	-.0209
4	ICSAB	242.6	.4577	-.0173	188.7	.0012	.9129
5	PREPSTDTJA	4.738	4.749	4.840	4.717	4.800	4.822
6	PREPBLKTJA	.0022	.0002	.0006	-.0034	-.0014	-.0070
7	S95T000323_L	14.38	14.58	69.17	131100.	4.128	8.413
8	S95T000323_	-2.647	14.03	75.33	126800.	1.203	30.71

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
9	S95T000323_D	.0705	13.95	75.88	125600.	1.568	27.89
10	S95T000324_L	1.484	.5718	122.6	215300.	-7.668	42.29
11	S95T000324_	-4.780	.3852	126.0	208300.	-.7287	50.09
12	S95T000324_D	-4.158	.3448	133.4	215100.	-.1597	47.58
13	CCV_1	5.125	5.063	5.159	4.993	5.248	5.099
14	CCB_1	-.0032	.0001	.0002	.0030	-.0023	-.0090
15	S95T000325_L	8.742	1.354	117.1	202900.	2.703	36.30
16	S95T000325_	-3.878	1.232	116.2	194600.	-.4146	47.39
17	S95T000325_D	-4.242	1.161	120.4	198900.	-.0084	48.83
18	S95T000326_L	-3.068	2.367	54.47	112800.	-.1473	20.34
19	S95T000326_	-4.982	1.792	52.61	109500.	-.3193	25.64
20	S95T000326_D	-1.422	1.518	42.81	92690.	-.4788	22.14
21	CCV_2	5.118	5.073	5.169	4.998	5.242	5.099
22	CCB_2	.0005	.0003	.0033	.0048	-.0022	-.0011
23	S95T000327_L	3.127	.1928	44.00	76900.	-.8687	24.94
24	S95T000327_	-1.358	.2430	42.24	73370.	-.0433	26.63
25	S95T000327_D	2.110	.2438	41.81	73030.	-.2315	26.07
26	ICSA	245.0	-.0042	-.0134	188.7	.0037	-.0323
27	ICSAB	244.8	.4640	-.0163	188.4	.0022	.9082
28	CCV_3	5.102	5.041	5.141	5.027	5.247	5.078
29	CCB_3	-.0003	.0002	.0032	.0026	.0012	-.0051

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.020	5.118	5.052	4.792	5.004	4.661
2	ICB	-.0113	.0106	-.0087	.0100	.0107	.0186
3	ICSA	.0593	.0451	-.0169	.0215	.0797	.0533
4	ICSAB	.0522	1.037	-.0329	.0193	.1138	.0492
5	PREPSTDTJA	4.760	4.748	4.690	4.502	4.814	4.409
6	PREPBLKTJA	.0027	-.0020	-.0261	.0111	.0255	.0117
7	S95T000323_L	861.6	50.58	695.2	30.50	.3496	98.98
8	S95T000323_	860.0	42.05	719.2	9.248	-5.741	67.80
9	S95T000323_D	865.6	45.89	717.0	6.443	-9.813	66.87
10	S95T000324_L	1118.	94.07	1184.	27.93	10.06	102.5
11	S95T000324_	1123.	65.05	1214.	.5656	-14.28	77.90
12	S95T000324_D	1174.	62.93	1278.	.2317	-20.24	81.01
13	CCV_1	5.115	5.176	5.166	4.899	5.077	4.705
14	CCB_1	.0037	.0053	-.0111	.0159	.0278	.0105
15	S95T000325_L	1158.	52.34	1073.	20.86	-12.60	145.2
16	S95T000325_	1150.	61.36	1114.	2.848	-11.71	116.8
17	S95T000325_D	1180.	59.65	1147.	3.783	-7.565	115.9
18	S95T000326_L	1116.	19.78	1634.	14.65	-2.367	127.2
19	S95T000326_	1098.	10.32	1655.	5.259	3.033	83.60
20	S95T000326_D	915.7	2.819	1393.	.4573	-6.922	70.27
21	CCV_2	5.156	5.185	5.157	4.906	5.091	4.732
22	CCB_2	.0040	-.0032	-.0028	.0037	.0312	.0153
23	S95T000327_L	643.7	1.173	983.4	7.815	-4.732	104.0
24	S95T000327_	635.0	10.54	1004.	3.996	1.654	84.14
25	S95T000327_D	640.3	9.209	1009.	1.630	-1.832	88.93
26	ICSA	.0640	.0643	-.0166	.0229	.0957	.0611
27	ICSAB	.0750	1.042	-.0354	-.0007	.1181	.0490
28	CCV_3	5.149	5.125	5.138	4.905	5.123	4.688
29	CCB_3	.0018	.0064	-.0141	.0107	.0059	.0135

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#	Sample Name	Sm	Sr	Th	Ti	Tl	U 210
1	ICV	4.919	4.884	-.0633	4.846	4.973	9.740
2	ICB	.0096	.0003	-.0045	.0000	-.0120	.0466
3	ICSA	-.0023	.0007	-.0223	.0015	.1104	.1123
4	ICSAB	.0013	.0009	-.0171	.0010	.0864	.1049
5	PREPSTDTJA	4.799	4.754	-.0508	4.705	4.735	9.611
6	PREPBLKTJA	-.0072	.0000	-.0009	.0005	-.0136	-.0171
7	S95T000323_L	13.81	.5903	-1.569	.5327	31.45	86.84
8	S95T000323	5.982	.3137	-.8295	.2137	4.881	34.50
9	S95T000323_D	4.596	.3140	-2.227	.2117	3.141	30.32
10	S95T000324_L	11.66	.3911	-5.273	-.4953	15.14	60.79
11	S95T000324	4.475	.3322	-3.466	-.3009	5.415	15.43
12	S95T000324_D	4.637	.3323	-2.141	-.1982	4.765	12.83
13	CCV_1	5.098	5.035	-.0461	5.000	5.068	10.05
14	CCB_1	.0014	.0000	-.0022	.0000	.0182	.0045
15	S95T000325_L	11.65	.4901	-5.977	.0171	76.42	31.86
16	S95T000325	4.007	.3521	-3.262	-.1991	-4.003	17.60
17	S95T000325_D	4.162	.3719	-1.917	-.1989	10.43	17.16
18	S95T000326_L	20.90	.3901	-4.494	.0307	6.339	98.81
19	S95T000326	2.595	.1140	1.074	-.0987	1.474	16.47
20	S95T000326_D	.8809	.0556	-1.361	-.1012	-9.438	7.839
21	CCV_2	5.112	5.033	-.0586	4.996	5.044	10.09
22	CCB_2	.0060	.0001	-.0020	.0000	.0255	.0189
23	S95T000327_L	2.008	.2044	-4.338	.0029	22.30	14.35
24	S95T000327	1.512	.1010	.1706	-.0515	-.0272	8.562
25	S95T000327_D	1.838	.2457	-.5894	-.1583	-.0351	7.065
26	ICSA	-.0002	.0006	-.0216	.0010	.1139	.0854
27	ICSAB	.0015	.0008	-.0199	.0012	.0915	.0786
28	CCV_3	5.122	5.037	-.0533	4.993	5.059	10.06
29	CCB_3	-.0004	.0000	-.0004	-.0002	.0151	.0120

#	Sample Name	V	Y	Zn 213	Zr 4
1	ICV	4.957	.0111	5.159	4.946
2	ICB	.0016	.0005	-.0012	.0035
3	ICSA	.0017	.0069	-.0130	.0010
4	ICSAB	.4779	.0071	.9650	.0005
5	PREPSTDTJA	4.757	.0092	4.726	4.777
6	PREPBLKTJA	-.0004	-.0005	.0006	.0001
7	S95T000323_L	4.232	.9874	1.927	6.680
8	S95T000323	1.247	.4608	1.833	1.800
9	S95T000323_D	1.082	.4279	2.344	1.914
10	S95T000324_L	3.420	.1646	-4.216	.3553
11	S95T000324	1.208	.1975	-4.468	1.581
12	S95T000324_D	.9463	.1975	-5.404	1.036
13	CCV_1	5.070	.0107	5.190	5.087
14	CCB_1	.0002	.0001	.0000	.0002
15	S95T000325_L	1.270	.4937	-6.153	2.640
16	S95T000325	1.116	.1646	-5.297	1.564
17	S95T000325_D	1.377	.1975	-5.895	1.459
18	S95T000326_L	5.107	1.152	-.1270	6.898
19	S95T000326	1.284	.1317	2.345	.7835
20	S95T000326_D	.7772	.0329	1.696	.9829

WHC-SD-WM-DP-074, REV. 0

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#	Sample Name	V	Y	Zn	Zr
1	CCV_2	5.085	.0113	5.205	5.090
2	CCB_2	.0008	.0001	.0005	.0012
23	S95T000327_L	1.365	.0000	.6222	1.486
24	S95T000327	.7662	.0517	1.059	.4407
25	S95T000327_D	.7240	.1034	.9426	.2684
26	ICSA	.0027	.0070	-.0135	.0009
27	ICSAB	.4873	.0071	.9763	.0006
28	CCV_3	5.057	.0108	5.165	5.077
29	CCB_3	-.0006	.0000	.0002	.0000

JK [illegible]

4-6-95

SY-103 S95T000323
S95T000324
S95T000325
S95T000326
S95T000327

WHC-SD-WM-DP-074, REV. 0

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950407A	ICP2	04/07/95	12:10	DKS	Q	CONC
2	ICB	950407A	ICP2	04/07/95	12:14	DKS	Q	CONC
3	ICSA	950407A	ICP2	04/07/95	12:17	DKS	Q	CONC
4	ICSAB	950407A	ICP2	04/07/95	12:21	DKS	Q	CONC
5	PREPSTDTJA	950407A	ICP2	04/07/95	12:28	DKS	S	CONC
6	PREPBLKTJA	950407A	ICP2	04/07/95	12:32	DKS	S	CONC
7	S95T000326_L	950407A	ICP2	04/07/95	12:36	DKS	S	CONC
8	S95T000326	950407A	ICP2	04/07/95	12:41	DKS	S	CONC
9	S95T000326_D	950407A	ICP2	04/07/95	12:45	DKS	S	CONC
10	ICSA	950407A	ICP2	04/07/95	12:55	DKS	Q	CONC
11	ICSAB	950407A	ICP2	04/07/95	12:59	DKS	Q	CONC
12	CCV_1	950407A	ICP2	04/07/95	13:06	DKS	Q	CONC
13	CCB_1	950407A	ICP2	04/07/95	13:09	DKS	Q	CONC

WHC-SD-WM-DP-074, REV. 0

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4-7-95
SY-103 S95T000326

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.153	5.039	5.189	4.926	4.970	5.248
2	ICB	.0009	-.0044	-.0039	.0037	.0000	-.0001
3	ICSA	.0006	244.2	-.0585	.0034	.0019	-.0001
4	ICSAB	.9867	241.2	-.0642	-.0039	.4590	.4827
5	PREPSTDTJA	.9195	4.873	4.905	4.702	4.788	5.208
6	PREPBLKTJA	.0011	.0084	-.0073	.0000	.0002	-.0001
7	S95T000326_L	1.877	5307.	-131.0	54.21	.4535	-.0929
8	S95T000326_	.0721	5229.	-123.5	63.28	.0587	-.1072
9	S95T000326_D	-.1523	4365.	-97.97	53.33	.0443	-.1254
10	ICSA	-.0004	247.5	-.0318	-.0023	.0022	.0000
11	ICSAB	.8169	244.5	.0082	-.0029	.4602	.4906
12	CCV_1	5.171	5.006	5.159	4.941	4.917	5.218
13	CCB_1	.0009	-.0111	.0020	.0005	.0001	-.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.133	5.237	5.147	5.127	5.128	5.163
2	ICB	.0681	.0055	-.0001	-.0016	.0014	-.0001
3	ICSA	.1104	246.9	.0007	.0055	.0008	-.0036
4	ICSAB	.1125	247.7	.9302	.0132	.4661	.4586
5	PREPSTDTJA	4.823	4.912	4.782	4.953	4.876	4.861
6	PREPBLKTJA	.0900	.0177	.0002	.0046	.0028	.0005
7	S95T000326_L	149.1	163.3	-1.006	7.055	4.513	39.25
8	S95T000326_	20.91	142.5	-.5335	.7304	2.121	35.54
9	S95T000326_D	30.29	115.4	-.5166	2.129	1.479	30.50
10	ICSA	.1031	255.9	.0000	.0074	.0074	.0021
11	ICSAB	.1151	256.6	.9502	.0091	.4730	.4805
12	CCV_1	5.161	5.326	5.127	5.061	5.128	5.166
13	CCB_1	.0539	.0150	-.0004	-.0013	.0009	-.0004

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.081	.0078	5.137	4.977	5.082	5.043
2	ICB	.0000	.0001	.0020	.2712	-.0004	.0005
3	ICSA	-.0087	.0076	90.98	.1822	-.0011	.0027
4	ICSAB	.4724	.0051	90.49	.1384	-.0009	.9719
5	PREPSTDTJA	4.824	.0064	4.814	4.848	4.928	4.837
6	PREPBLKTJA	.0010	-.0006	.0061	.1117	.0002	-.0006
7	S95T000326_L	3.877	1.859	13.09	1936.	1.765	5.377
8	S95T000326_	3.701	.6898	9.516	1616.	.0769	3.903
9	S95T000326_D	3.207	.6540	8.283	1311.	.2984	3.505
10	ICSA	-.0043	-.0020	95.57	.0748	-.0018	.0050
11	ICSAB	.4862	-.0043	94.99	.0525	-.0011	.9910
12	CCV_1	5.025	.0086	5.120	4.908	5.019	4.983
13	CCB_1	-.0007	.0013	.0027	.0022	.0002	.0012

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.074	5.015	5.110	5.037	5.255	5.125
2	ICB	-.0004	.0002	.0034	.0007	.0028	.0120
3	ICSA	244.3	-.0045	-.0117	194.2	.0047	-.0103
4	ICSAB	241.7	.4471	-.0132	190.8	.0040	.9187
5	PREPSTDTJA	4.813	4.760	4.865	4.830	4.941	4.888
6	PREPBLKTJA	-.0015	.0001	.0030	-.0026	.0005	.0077
7	S95T000326_L	4.355	2.616	59.45	116100.	7.053	46.11
8	S95T000326_	-4.659	1.941	53.91	112700.	1.072	33.70
9	S95T000326_D	-2.607	1.717	46.58	93680.	1.590	28.59
10	ICSA	253.1	-.0019	-.0093	196.8	.0039	.0120
11	ICSAB	248.2	.4529	-.0095	193.8	.0045	.9623
12	CCV_1	5.048	5.011	5.088	4.962	5.188	5.087
13	CCB_1	-.0045	.0005	.0053	.0096	.0016	-.0001

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.356	5.127	5.115	4.873	5.087	5.103
2	ICB	.0625	.0066	.0013	-.0021	.0202	.0122
3	ICSA	.1374	.0487	-.0184	.0122	.0346	.0650
4	ICSAB	.1454	.9842	-.0144	.0163	.0711	.0599
5	PREPSTDTJA	5.200	4.753	4.769	4.555	4.889	4.818
6	PREPBLKTJA	.0747	.0013	-.0068	.0088	.0377	.0082
7	S95T000326_L	1301.	30.57	1655.	9.205	93.37	114.7
8	S95T000326_	1198.	14.72	1699.	5.717	9.101	93.01
9	S95T000326_D	1004.	17.72	1426.	4.360	14.82	79.73
10	ICSA	.1606	.0592	.0025	.0064	.1126	.0356
11	ICSAB	.1528	1.034	-.0368	.0065	.1127	.0383
12	CCV_1	Q5.520	5.146	5.166	4.852	5.089	5.105
13	CCB_1	.0822	.0261	-.0005	.0136	.0366	.0173

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.100	5.030	-.0593	4.946	4.932	10.02
2	ICB	.0063	.0001	.0016	.0005	-.0042	-.0008
3	ICSA	-.0036	.0007	-.0254	.0017	.0381	.1065
4	ICSAB	.0013	.0009	-.0200	.0022	.0252	.1052
5	PREPSTDTJA	4.929	4.867	-.0696	4.749	4.759	9.859
6	PREPBLKTJA	-.0062	.0000	.0012	.0007	-.0114	-.0317
7	S95T000326_L	17.45	.3825	-4.245	2.041	-44.37	57.02
8	S95T000326_	4.980	.1115	-2.682	-.0935	-5.678	21.56
9	S95T000326_D	6.807	.1124	-3.447	.1108	-9.777	28.32
10	ICSA	-.0041	.0007	-.0285	.0017	.0353	.0839
11	ICSAB	-.0017	.0005	-.0161	.0014	.1194	.0734
12	CCV_1	5.029	4.968	-.0650	4.900	4.924	9.883
13	CCB_1	.0127	.0002	-.0108	.0003	-.0134	.0413

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#	Sample Name	V	Y	Zn	Zr
1	ICV	5.027	.0115	5.130	5.037
2	ICB	.0010	.0005	-.0013	.0009
3	ICSA	.0006	.0070	-.0142	-.0008
4	ICSAB	.4695	.0071	.9428	.0007
5	PREPSTDTJA	4.790	.0096	4.702	4.830
6	PREPBLKTJA	.0001	-.0002	.0006	.0003
7	S95T000326_L	6.833	1.481	-.2592	2.432
8	S95T000326_	1.783	.3620	1.737	1.052
9	S95T000326_D	2.293	.4278	1.604	1.106
10	ICSA	.0016	.0070	-.0243	.0001
11	ICSAB	.4858	.0072	.9405	.0001
12	CCV_1	5.010	.0119	5.160	5.002
13	CCB_1	.0035	.0008	-.0007	.0018

WHC-SD-WM-DP-074, REV. 0

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54-103 S95T000326

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THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

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LABCORE Data Entry Template for Worklist# 92

Analyst: D.K Sato **Instrument:** ICP01 _____ **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	5.08	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	1.01	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<.21	N/A	ug/g
6	SAMPLE	S94T000121	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<126	~~N/A~~ 126 BW 12-6-94	ug/g
7	DUP	S94T000121	0	F	@ICP-F03 LI-F-01	SOLID	<126	<116	N/A	ug/g
8	SAMPLE	S94T000122	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<115	115	ug/g
9	DUP	S94T000122	0	F	@ICP-F03 LI-F-01	SOLID	<115	<116	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	1.00	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.043	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<.01	N/A	ug/g

Final page for worklist # 92

DK Sato
Analyst Signature

10-24-94
Date

Data Entry Comments: Out for rerun

Units shown for QC (SPK) may not reflect the actual units.

Sample	ICV	ICB	ICS-A	*ZZZZ	ICS-AB	PREPBLKARL	S94T000121	ZZZZ	S94T000121
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION LIQ	FUSION SOL	FUSION	FUSION SOL
Comment	36B48A	2% HNO3	ICSA	ZZZZ	ICSAB	DIG BLANK .5-10ML	SAMDIL, .4157G IN 250ML, .5-10ML	ZZZZ	SAMDIL, .4530G IN 250ML, .5-10ML
Time	9:49	9:53	9:57	10:01	10:04	10:13	10:20	10:23	10:28
Weight	1	1	1	1	1	1	0.4157	0.4157	0.453
Volume	1	1	1	1	1	21	5250	5250	5250
Ag	5.094	0.001	-0.001	0.005	-0.001	0.062	44.231	-232.353	23.992
Al	5.077	0.021	103.564	0.072	103.476	1.030	34803.933	39251.968	35653.510
As	5.084	0.002	0.001	0.005	-0.003	-0.012	-1.978	-14.018	59.326
B	5.016	0.001	0.028	0.001	0.015	-0.034	32.906	39.035	32.109
Ba	5.081	0.001	0.001	0.003	0.001	0.037	32.865	-76.880	34.029
Be	5.317	0.001	0.001	0.002	0.002	0.011	5.813	8.341	3.512
Bi	5.062	0.018	0.004	-0.007	0.029	-0.027	294.267	-198.017	-66.544
Ca	5.118	0.001	9.337	0.004	9.952	0.698	533.311	499.840	393.925
Cd	5.191	-0.000	-0.004	0.001	-0.005	-0.023	7.760	13.951	21.560
Ce	5.102	0.008	0.009	0.036	0.028	0.971	588.695	106.033	191.389
Co	5.152	0.001	0.002	0.003	0.003	0.018	-17.575	59.941	41.275
Cr	5.158	0.003	-0.004	0.001	-0.007	0.005	9020.596	9937.156	9140.416
Cu	5.131	-0.002	-0.011	-0.001	-0.009	-0.088	-37.404	48.249	41.200
Fe	5.128	-0.001	100.559	0.051	100.340	0.863	2480.886	3579.909	2540.706
K	4.982	-0.013	-0.020	0.065	0.018	10404.271	6938111.950	7142958.203	6454556.940
La	5.081	-0.003	0.003	0.005	-0.001	-0.027	31.754	-223.828	25.340
Li	5.081	0.001	0.001	0.001	1.010	-0.021	0.475	25.721	29.304
Mg	5.116	0.001	9.775	0.006	9.884	0.121	84.674	151.442	70.615
Mn	5.121	-0.002	-0.005	-0.001	-0.005	0.001	821.360	892.405	828.852
Mo	5.149	0.000	-0.001	0.001	-0.003	-0.015	76.306	92.822	77.298
Na	5.047	0.007	0.219	-0.003	0.222	3.082	184446.278	195353.248	179719.064
Nd	5.116	-0.013	0.035	0.003	0.030	-0.235	37.869	490.285	359.299
Ni	5.143	0.001	-0.039	0.005	-0.038	2.515	1151.628	1268.370	1307.969
P	5.175	0.001	0.025	-0.005	0.014	-0.082	6233.707	4985.321	4688.604
Pb	5.118	0.008	-0.012	0.011	-0.018	-0.149	51.680	367.390	253.769
S	5.123	0.009	0.112	0.006	0.135	0.547	2794.192	3028.806	2867.329
Sb	4.790	-0.028	0.003	-0.003	0.041	-0.210	97.224	-45.179	632.505
Se	5.350	-0.018	0.010	-0.032	0.004	-0.471	-15.584	-162.055	38.330
Si	4.792	-0.001	0.261	-0.009	0.145	0.208	427.641	-396.242	332.153
Sm	5.075	-0.007	0.024	0.106	0.045	0.847	494.362	-5963.355	640.017
Sr	5.048	0.001	0.001	0.002	0.001	0.001	7.009	14.403	12.896
Ti	4.969	0.001	0.002	0.004	0.002	0.021	15.906	-118.680	16.310
Tl	5.021	-0.020	0.006	0.086	0.021	0.673	510.778	-7387.802	106.514
U	9.939	0.028	0.133	0.378	0.226	3.555	2993.103	-23767.846	3002.721
V	5.041	0.002	-0.001	0.004	0.001	0.029	30.067	-155.993	5.513
Zn	5.166	0.008	0.001	-0.014	0.042	0.071	4.561	-8.357	-3.761
Zr	5.058	0.001	0.001	0.008	0.002	0.085	65.467	-353.419	52.510

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Sample	S94T000122	S94T000122	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION SOL	FUSION SOL	LIQUID	LIQUID	LIQUID	LIQUID
Comment	SAMDIL, .4553G IN 250ML, .5-10ML	DUPDIL, .4531G IN 250ML, .5-10ML	ICSA	ICSAB	36B48A	2% HNO3
Time	10:33	10:37	10:48	10:51	10:57	11:00
Weight	0.4553	0.4531	1	1	1	1
Volume	5250	5250	1	1	1	1
Ag	18.496	14.003	-0.001	-0.003	5.076	0.012
Al	43208.310	38693.260	103.310	103.034	5.158	0.025
As	1.946	90.241	-0.005	0.003	5.180	-0.001
B	44.898	33.888	0.023	0.015	5.052	0.002
Ba	25.326	32.373	0.000	0.000	5.073	0.004
Be	7.038	5.323	0.001	0.001	5.358	0.003
Bi	-55.102	3.694	-0.001	0.002	5.087	-0.002
Ca	279.117	274.842	9.307	9.908	5.135	0.002
Cd	30.847	22.831	-0.005	-0.005	5.287	0.002
Ce	168.351	204.406	0.010	0.023	5.035	0.052
Co	72.417	41.284	0.003	0.003	5.223	0.003
Cr	9412.859	8744.010	-0.008	-0.007	5.234	0.003
Cu	-0.036	-2.362	-0.012	-0.013	5.131	0.001
Fe	2827.142	2285.188	100.769	99.943	5.227	0.007
K	5806596.023	7790490.614	0.420	0.442	5.279	0.247
La	67.937	9.354	-0.004	0.001	5.109	0.002
Li	37.556	26.635	0.001	1.003	5.043	0.003
Mg	62.774	68.621	9.734	9.822	5.165	0.003
Mn	899.488	630.987	-0.005	-0.004	5.184	0.000
Mo	64.844	57.885	-0.001	-0.001	5.208	0.005
Na	185062.451	182930.104	0.222	0.216	5.076	0.017
Nd	493.183	49.395	0.033	0.007	5.209	0.010
Ni	1466.127	1637.098	-0.040	-0.037	5.209	0.003
P	4863.721	5289.599	0.016	0.016	5.297	-0.002
Pb	538.885	368.891	-0.027	-0.013	5.254	0.015
S	2404.449	2889.189	0.117	0.131	5.194	0.008
Sb	31.043	128.830	0.058	0.019	4.853	0.005
Se	20.212	-127.185	0.015	-0.012	5.501	-0.019
Si	216.234	339.960	0.262	0.139	4.809	0.004
Sm	367.536	375.420	0.007	0.024	5.012	0.082
Sr	12.849	12.137	0.001	0.000	5.052	0.003
Ti	10.901	12.280	0.001	0.001	4.994	0.005
Tl	242.226	452.591	-0.020	-0.016	4.917	0.066
U	1596.254	2638.982	0.062	0.102	9.475	0.330
V	12.213	18.385	-0.001	-0.002	5.084	0.005
Zn	-83.230	39.157	0.004	0.041	5.209	-0.001
Zr	40.425	49.024	0.001	0.002	5.083	0.007

LABCORE Data Entry Template for Worklist# 91

Analyst: JK Sato **Instrument:** ICP01 _____ **Method:** LA-505-151 D-1

Worklist Comment: ICP FUSION Li ONLY (SY-103) WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.96	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1.0	1.00	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	1	<0.21	N/A	ug/g
6	SAMPLE	S94T000119	0	F	@ICP-F03 LI-F-01	SOLID	N/A	< 122	1.22E+2	ug/g
7	DUP	S94T000119	0	F	@ICP-F03 LI-F-01	SOLID	<122	<124	N/A	ug/g
8	SAMPLE	S94T000120	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<124	124	ug/g
9	DUP	S94T000120	0	F	@ICP-F03 LI-F-01	SOLID	<124	<125	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.994	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	5.14	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Final page for worklist # 91

JK Sato
Analyst Signature

10-21-94
Date

Data Entry Comments: Out for rerun

Units shown for QC (SPK) may not reflect the actual units.

Sample	ICV	ICB	ICS-A	ICS-AB	ZZZZ	PREPBLKARL	S94T000119	S94T000119
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION LIQ	FUSION SOL	FUSION SOL
Commen	36B48A	2% HNO3	ICSA	ICSAB	ZZZZ	PREPBLKARL (S94T000119,120), .5-10ML	SAMDIL, .4292G IN 250ML, .5-10ML	SAMDIL, .4233G IN 250ML, .5-10ML
Time	12:30	12:34	12:37	12:41	12:52	12:57	13:02	13:32
Weight	1	1	1	1	1	1	0.4292	0.4233
Volume	1	1	1	1	1	21	5250	5250
Ag	4.923	0.002	0.001	0.000	-0.000	0.026	45.397	62.348
Al	4.708	0.003	97.637	97.582	0.009	0.031	41448.064	41440.523
As	5.001	-0.000	0.002	-0.010	-0.009	-0.109	-143.072	-14.063
B	4.264	0.006	0.027	0.017	-0.001	-0.020	83.439	92.378
Ba	4.935	0.001	0.000	0.001	0.002	0.034	38.970	46.301
Be	5.189	0.001	0.001	0.001	0.000	-0.004	0.768	-0.458
Bi	4.953	0.020	0.049	0.032	0.018	0.119	307.350	310.812
Ca	4.962	0.001	9.264	9.907	0.018	0.347	428.801	501.224
Cd	5.082	0.001	-0.005	-0.003	-0.001	-0.014	16.414	23.454
Ce	4.977	0.026	0.017	0.016	0.024	0.255	359.283	481.639
Co	5.065	-0.001	0.004	0.002	-0.001	-0.020	-6.490	27.438
Cr	5.036	-0.002	-0.010	-0.007	-0.001	-0.068	9509.176	9505.116
Cu	4.982	0.000	-0.011	-0.009	-0.001	-0.036	-14.769	17.345
Fe	5.001	0.007	99.571	99.326	0.023	0.254	2920.902	2760.542
K	4.852	0.017	-0.042	-0.036	654.831	13727.369	8083351.776	6943700.443
La	4.906	-0.001	0.004	-0.001	-0.001	-0.077	76.060	61.387
Li	4.962	0.001	-0.001	1.005	-0.001	0.000	26.085	41.086
Mg	5.014	0.001	9.725	9.796	0.004	0.056	69.582	61.221
Mn	4.988	-0.000	-0.004	-0.003	0.002	0.028	856.089	873.208
Mo	5.035	0.007	-0.002	-0.004	-0.002	-0.030	72.202	81.195
Na	4.509	-0.021	0.141	0.151	0.180	3.868	199896.035	197658.900
Nd	4.894	-0.014	0.009	0.019	0.006	-0.087	-23.718	355.992
Ni	5.015	0.002	-0.040	-0.037	0.311	6.554	5594.432	1826.323
P	5.199	-0.000	0.004	0.002	-0.005	-0.226	4133.987	3752.225
Pb	4.976	-0.010	-0.038	-0.035	-0.021	-0.225	-21.757	47.306
S	5.076	-0.012	0.101	0.105	-0.009	-0.108	3198.200	3327.997
Sb	4.668	-0.002	0.008	-0.047	0.023	-0.496	190.939	-135.408
Se	5.241	0.001	0.021	-0.012	-0.001	0.061	-31.103	195.752
Si	4.513	0.011	0.195	0.128	0.021	0.582	445.067	489.247
Sm	4.962	0.006	-0.008	0.018	-0.009	-0.102	404.296	1196.740
Sr	4.915	0.001	-0.000	0.000	-0.000	-0.004	-0.442	6.879
Ti	4.845	0.002	0.002	0.002	0.001	0.016	17.609	33.140
Tl	4.848	0.009	0.000	0.018	0.006	0.767	735.758	1448.854
U	9.392	0.082	0.033	0.154	-0.082	1.210	2985.175	5714.620
V	4.898	0.002	0.001	0.002	0.002	0.071	32.714	50.898
Zn	5.073	-0.002	0.004	0.008	0.001	0.014	17.669	-59.691
Zr	4.906	0.003	0.003	0.003	0.005	0.127	117.416	172.680

Sample	S94T000120	S94T000120	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION SOL	FUSION SOL	LIQUID	LIQUID	LIQUID	LIQUID
Commen	SAMDIL, .4251G IN 250ML, .5-10ML	DUPDIL, .4203G IN 250ML, .5-10M	ICSA	ICSAB	36B48A	2% HNO3
Time	13:36	13:41	13:53	13:57	14:04	14:08
Weight	0.4251	0.4203	1	1	1	1
Volume	5250	5250	1	1	1	1
Ag	7.406	13.919	-0.003	-0.002	4.982	0.012
Al	42478.438	41149.183	95.920	97.115	4.876	-0.005
As	-61.169	-50.012	0.002	-0.004	5.118	0.002
B	107.811	56.624	0.023	0.024	4.387	0.006
Ba	22.568	25.209	-0.000	0.000	5.150	0.002
Be	-0.427	-3.953	0.001	0.001	5.349	0.002
Bi	-19.979	-0.733	0.030	0.020	5.098	-0.001
Ca	449.546	1260.765	9.007	9.741	5.166	0.002
Cd	27.697	29.355	-0.005	-0.004	5.214	0.001
Ce	134.365	128.701	0.037	0.016	5.209	0.012
Co	5.257	34.027	0.000	0.000	5.207	0.002
Cr	11374.921	11370.149	-0.009	-0.008	5.193	0.001
Cu	19.800	10.967	-0.012	-0.010	5.169	0.001
Fe	3108.938	3221.675	98.060	98.505	5.191	0.011
K	7697831.099	7598526.380	0.557	0.423	5.454	0.282
La	50.897	26.086	0.001	-0.001	5.093	0.005
Li	12.700	15.701	0.000	0.994	5.138	0.002
Mg	122.087	83.468	9.593	9.809	5.164	0.002
Mn	1073.560	1052.464	-0.004	-0.004	5.143	0.000
Mo	74.556	81.440	-0.003	-0.003	5.195	0.007
Na	208217.994	203774.083	0.173	0.183	4.667	-0.006
Nd	197.245	156.727	0.017	0.022	5.064	0.005
Ni	3293.916	1999.705	-0.039	-0.037	5.159	0.004
P	6978.269	5220.513	0.006	0.007	5.472	-0.005
Pb	-83.996	-7.408	-0.041	-0.041	5.121	-0.021
S	3489.914	3478.000	0.097	0.100	5.300	-0.006
Sb	121.333	-146.401	0.031	-0.022	4.830	0.009
Se	101.498	121.956	0.040	0.005	5.417	-0.001
Si	434.498	249.828	0.192	0.134	4.643	0.009
Sm	-239.919	-231.273	-0.016	-0.019	5.211	0.010
Sr	5.693	5.349	-0.000	0.000	5.118	0.002
Ti	0.939	2.278	0.001	0.000	5.025	0.002
Tl	-230.303	-167.499	-0.048	-0.033	4.983	0.031
U	711.784	470.449	-0.043	-0.016	9.884	0.060
V	8.102	17.641	-0.000	0.000	5.067	0.004
Zn	53.265	146.073	0.009	0.019	5.204	-0.002
Zr	121.083	36.282	0.000	-0.000	5.091	0.004

LABCORE Data Entry Template for Worklist# 77

Analyst: K Sato **Instrument:** ICP01 **Method:** LA-505-151 D-1
WHC-SD-WM-DP-074, REV. 0

Worklist Comment: ICP FUSION Li ONLY (SY-103)

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	ICV				@ICP-F03 LI-F-01	SOLID	5	4.88	N/A	ug/g
2	ICB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
3	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
4	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.997	N/A	ug/g
5	PREPBLKARL				@ICP-F03 LI-F-01	SOLID	<0.21	<0.21	N/A	ug/g
6	SAMPLE	S94T000037	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<121	121	ug/g
7	DUP	S94T000037	0	F	@ICP-F03 LI-F-01	SOLID	<121	<122	N/A	ug/g
8	SAMPLE	S94T000064	0	F	@ICP-F03 LI-F-01	SOLID	N/A	<119	119	ug/g
9	DUP	S94T000064	0	F	@ICP-F03 LI-F-01	SOLID	<119	<117	N/A	ug/g
10	ICSA				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g
11	ICSAB				@ICP-F03 LI-F-01	SOLID	1	0.967	N/A	ug/g
12	CCV				@ICP-F03 LI-F-01	SOLID	5	4.89	N/A	ug/g
13	CCB				@ICP-F03 LI-F-01	SOLID	1	<0.01	N/A	ug/g

Final page for worklist # 77

K Sato
Analyst Signature

10-14-94
Date

Data Entry Comments: Out for rerun: detection limit exceeds action level.
BW
11-9-94

Units shown for QC (SPK) may not reflect the actual units.

October 14, 1994

Sample	ICV	ICB	ICS-A	ICS-AB	PREPBLKARL	S94T000037	S94T000037	S94T000064
Matrix	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	FUSION	FUSION	FUSION
Commen	34B48A	2% HNO3	ICSA	ICSAB	DIG BLANK, .5-10ML	SAMDIL, .4334G IN 250 ML, .5-1	DUPDIL, .4307G IN 250 ML, .5-	SAMDIL, .4427G IN 250 ML, .5-1
Time	13 43	13 47	13 50	13 53	14 1	14 5	14 9	14 14
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	4.8253	0.0128	-0.0016	0.0016	-0.0016	-0.0021	0.0003	-0.0018
Al	4.8212	0.0229	100.7036	101.0973	0.0124	1.3748	1.7055	2.3854
As	4.8716	-0.0004	0.0056	-0.0041	-0.0091	0.0014	0.0005	-0.0058
B	4.5873	0.0030	0.0056	0.0030	0.0017	0.0060	0.0072	0.0060
Ba	4.7425	0.0014	-0.0004	-0.0001	0.0002	0.0003	0.0060	0.0007
Be	5.0544	0.0004	0.0007	0.0009	-0.0006	-0.0003	0.0057	-0.0001
Bi	4.7910	0.0120	-0.0114	0.0209	-0.0329	-0.0048	-0.0059	-0.0027
Ca	4.8393	0.0026	9.1981	10.0186	0.0084	0.0179	0.0582	0.0374
Cd	4.9486	0.0016	-0.0036	-0.0037	-0.0007	-0.0002	0.0061	-0.0010
Ce	4.7294	0.0008	-0.0002	-0.0133	-0.0711	-0.0259	-0.0130	-0.0354
Co	4.9773	-0.0019	-0.0004	0.0000	0.0018	-0.0005	0.0064	-0.0004
Cr	4.9124	0.0004	-0.0053	-0.0047	0.0032	0.0043	0.0111	0.0044
Cu	4.9800	-0.0012	-0.0108	-0.0114	-0.0011	-0.0013	0.0055	-0.0015
Fe	4.9829	0.0138	100.2125	100.4801	0.0192	0.0107	0.3610	0.0107
K	4.9762	0.2131	0.0561	0.0409	475.8438	473.2135	464.5177	501.2167
La	4.7468	0.0080	0.0042	0.0036	0.0002	0.0036	0.0096	0.0033
Li	4.8842	0.0011	0.0001	0.9965	0.0010	0.0008	0.0087	-0.0003
Mg	4.8986	0.0019	9.7282	9.8173	0.0038	0.0026	0.0439	0.0038
Mn	4.8905	-0.0007	-0.0041	-0.0043	0.0006	-0.0003	0.0059	0.0002
Mo	4.8970	0.0093	0.0004	-0.0002	0.0007	0.0054	0.0086	0.0091
Na	4.7425	0.0217	0.1867	0.1810	0.1792	16.5947	16.3231	12.5472
Nd	4.7830	0.0106	0.0092	-0.0049	0.0015	0.0118	-0.0036	-0.0248
Ni	4.9352	0.0020	-0.0407	-0.0391	0.1417	0.0455	0.0541	0.0673
P	5.5663	-0.0039	0.0175	0.0045	0.0020	0.3633	0.3597	0.2154
Pb	4.8829	0.0112	-0.0200	-0.0129	0.0093	0.0133	0.0045	0.0010
S	5.2074	0.0068	0.1277	0.1342	0.0082	0.0476	0.1037	0.0870
Sb	4.6691	0.0031	0.0399	-0.0005	0.0126	0.0200	0.0238	-0.0060
Se	5.1434	0.0128	0.0327	0.0242	-0.0010	-0.0229	0.0109	-0.0183
Si	4.5116	0.0050	0.0523	0.0504	-0.0708	-0.0581	-0.0487	-0.0455
Sm	4.7630	0.0294	-0.0498	-0.0209	-0.0527	-0.0270	-0.0186	-0.0270
Sr	4.7383	0.0010	0.0007	0.0004	0.0004	0.0005	0.0063	0.0003
Ti	4.7090	0.0015	-0.0004	0.0001	-0.0017	-0.0009	0.0045	-0.0009
Tl	4.6777	0.0016	-0.0807	-0.0830	-0.0775	-0.0954	-0.0751	-0.0752
U	9.0663	0.1469	-0.1606	-0.0249	-0.2367	-0.0692	-0.1045	-0.1113
V	4.8258	0.0003	-0.0028	-0.0022	-0.0030	-0.0026	0.0032	-0.0021
Zn	5.4345	0.0027	0.0218	0.0589	0.0187	0.0190	0.1509	0.0077
Zr	4.8014	0.0031	-0.0037	-0.0014	-0.0020	-0.0012	0.0049	-0.0001

Data not adjusted for dilution factors

Octobe 4, 1994

Sample	S94T000064	ICS-A	ICS-AB	CCV-1	CCB-1
Matrix	FUSION	LIQUID	LIQUID	LIQUID	LIQUID
Commen	DUPDIL, .4467G IN 250 ML, .5-1	ICSA	ICSAB	34B48A	2% HNO3
Time	14 17	14 26	14 29	14 37	14 41
Units	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Ag	-0.0015	0.0020	-0.0072	4.8338	0.0194
Al	2.3671	95.6446	97.3219	4.8462	0.0580
As	0.0000	0.0058	-0.0017	4.9199	0.0053
B	0.0036	0.0068	0.0016	4.6065	0.0072
Ba	0.0009	0.0025	-0.0014	4.7583	0.0059
Be	-0.0002	0.0012	0.0005	5.0848	0.0030
Bi	0.0088	0.0524	0.0031	4.7863	0.0271
Ca	0.0123	8.6517	9.5467	4.8592	0.0042
Cd	-0.0005	-0.0033	-0.0046	4.9966	0.0033
Ce	-0.0084	0.0758	-0.0169	4.7235	0.0827
Co	-0.0023	0.0022	0.0001	5.0276	0.0036
Cr	0.0026	0.0005	-0.0046	4.9452	0.0084
Cu	-0.0010	-0.0033	-0.0101	4.9985	0.0059
Fe	0.0047	94.4485	96.5806	5.0212	0.0171
K	505.9313	0.5327	0.2721	5.1741	0.4024
La	0.0043	0.0107	0.0005	4.7654	0.0118
Li	-0.0004	0.0065	0.9670	4.8921	0.0066
Mg	0.0029	9.1332	9.4481	4.9291	0.0041
Mn	0.0004	-0.0045	-0.0044	4.9293	0.0020
Mo	0.0067	0.0011	-0.0007	4.9204	0.0118
Na	12.5387	0.2556	0.1915	4.7454	0.0462
Nd	0.0017	0.0733	0.0091	4.7984	0.0386
Ni	0.0648	-0.0325	-0.0421	4.9702	0.0107
P	0.2185	0.0337	0.0309	5.6025	-0.0005
Pb	-0.0005	0.0015	-0.0247	4.9127	0.0159
S	0.0798	0.1188	0.1193	5.2253	0.0179
Sb	0.0186	0.0630	0.0017	4.7165	0.0656
Se	0.0032	0.0557	0.0152	5.2082	0.0190
Si	-0.0432	0.0730	0.0297	4.5373	0.0235
Sm	0.0015	0.1098	-0.0894	4.7483	0.1521
Sr	0.0003	0.0020	0.0008	4.7536	0.0041
Ti	0.0000	0.0032	-0.0025	4.7351	0.0067
Tl	-0.0571	0.1032	-0.1990	4.7572	0.1737
U	0.0016	0.5570	-0.3738	9.2141	0.6845
V	-0.0011	0.0023	-0.0057	4.8563	0.0068
Zn	0.0164	0.0101	0.0270	5.4808	0.0055
Zr	-0.0005	0.0102	-0.0081	4.8269	0.0156

Data not adjusted for dilution factors

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TOTAL ORGANIC CARBON/INORGANIC CARBON ANALYSES

LABCORE Data Entry Template for Worklist# 795

Analyst: RAN **Instrument:** TOC01 WB39937 **Book #** 10N12-G

Method: LA-344-105 Rev/Mod B-3

Worklist Comment: SY-103 TOC drainable liquid

WHC-SD-WM-DP-074, REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-01	LIQUID	1	<5.00 E+0	N/A	ug/mL
		2	STD				TOC-01	LIQUID	3.00e+2	2.99 E+2	N/A	ug/mL
94000020	SY-103	3	SAMPLE	S95T000281	0		TOC-01	LIQUID	N/A	I.S.		ug/mL
94000020	SY-103	4	DUP	S95T000281	0		TOC-01	LIQUID	I.S.	I.S.	N/A	ug/mL
94000020	SY-103	5	SAMPLE	S95T000282	0		TOC-01	LIQUID	N/A	9.68E+3	1.05E+2	ug/mL
94000020	SY-103	6	DUP	S95T000282	0		TOC-01	LIQUID	9.68E+3	9.61E+3	N/A	ug/mL
94000020	SY-103	7	SAMPLE	S95T000283	0		TOC-01	LIQUID	N/A	~~9.10.1E+3~~ 1.01e+4 RWS 4-10-95	1.05E+2	ug/mL
94000020	SY-103	8	DUP	S95T000283	0		TOC-01	LIQUID	1.01E+4	9.98E+3	N/A	ug/mL
94000020	SY-103	9	SAMPLE	S95T000284	0		TOC-01	LIQUID	N/A	4.36E+3	1.05E+2	ug/mL
94000020	SY-103	10	DUP	S95T000284	0		TOC-01	LIQUID	4.36E+3	4.27E+3	N/A	ug/mL
94000020	SY-103	11	SAMPLE	S95T000285	0		TOC-01	LIQUID	N/A	3.81E+3	1.05E+2	ug/mL
94000020	SY-103	12	DUP	S95T000285	0		TOC-01	LIQUID	3.81E+3	3.96E+3	N/A	ug/mL
		13	STD				TOC-01	LIQUID	3.00e+2	3.10E+2	N/A	ug/mL

Final page for worklist # 795

Robb Wendland 4-10-95
Analyst Signature **Date**

4-10-95

RW Schroeder 4-11-95

Analyst Signature **Date**

Data Entry Comments: .200 mL – 4 mL 2.0 M H_2SO_4

~~S95T000283 exceeded 10000 mg/mL TOC limit~~ AZ 6-7-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 04/10/95 Time: 10:56:14

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	1.10	72.73
3	1.51	1.50	26.67
4	2.00	1.80	16.67
5	2.50	2.10	14.29
6	3.00	2.50	16.00
7	3.50	2.80	10.71
8	4.00	3.20	12.50
9	4.50	3.60	11.11
10	5.00	3.80	5.26
11	5.50	4.10	7.32
12	6.00	4.40	6.82
13	6.50	4.70	6.38
14	7.00	5.10	7.84

WHC-SD-WM-DP-074, REV. 0

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 989 **TO** 1000.

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

Sample Run By: R. WENDLAND 4-10-95
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 04/10/95 Time: 11:13:10

Sample Size = 200 uL
Dil Factor = 11
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	33.00	97.58
3	1.51	50.40	34.52
4	2.01	54.60	7.69
5	2.51	56.10	2.67
6	3.01	56.70	1.06
7	3.51	57.20	0.87
8	4.01	57.40	0.35
9	4.50	57.80	0.69
10	5.00	58.20	0.69
11	5.50	58.40	0.34
12	6.00	58.90	0.85
13	6.51	59.20	0.51
14	7.00	59.40	0.34

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(59.4 - 5.100622)(11)/(200) = +2.99E+00 g/L Carbon
(59.4 - 5.100622)(11)/(200)(12) = +2.49E-01 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLK Date: 04/10/95 Time: 11:20:44

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	1.00	70.00
3	1.51	1.50	33.33
4	2.01	1.90	21.05
5	2.51	2.20	13.64
6	3.01	2.60	15.38
7	3.51	2.90	10.34
8	4.01	3.30	12.12
9	4.51	3.60	8.33
10	5.01	4.10	12.20
11	5.51	4.30	4.65
12	6.01	4.60	6.52
13	6.51	5.00	8.00
14	7.00	5.30	5.66

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(5.3 - 5.100622)(1)/(200) = < 5.00 E-3 g/L Carbon
(5.3 - 5.100622)(1)/(200)(12) = < 4.17 E-4 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 282 Date: 04/10/95 Time: 11:56:12

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	40.90	99.02
3	1.51	74.60	45.17
4	2.00	85.70	12.95
5	2.50	89.90	4.67
6	3.00	92.10	2.39
7	3.51	93.20	1.18
8	4.00	94.00	0.85
9	4.50	94.70	0.74
10	5.00	95.40	0.73
11	5.50	95.80	0.42
12	6.00	96.30	0.52
13	6.50	96.80	0.52
14	7.00	97.30	0.51

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS: 21 RWS 4-10-95
(97.3 - 5.1)(~~1~~)/(200) = 9.68 E+0 ~~+4.61E-01~~ RWS 4-10-95 g/L Carbon
(97.3 - 5.1)(1)/(200)(12) = +3.84E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 282DUP Date: 04/10/95 Time: 11:48:42

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	42.70	99.30
3	1.51	76.20	43.96
4	2.01	86.60	12.01
5	2.51	90.30	4.10
6	3.01	92.10	1.95
7	3.51	93.10	1.07
8	4.00	93.80	0.75
9	4.50	94.40	0.64
10	5.00	94.90	0.53
11	5.50	95.30	0.42
12	6.00	95.80	0.52
13	6.50	96.20	0.42
14	7.00	96.60	0.41

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(96.6 - 5.099866) ~~(1)~~ 21 RWS 4-10-95 /(200) = 9.61 E+0 RW RWS 4-10-95
(96.6 - 5.099866)(1)/(200)(12) = ~~+4.58E-01~~ RWS 4-10-95 g/L Carbon
+3.81E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 283 Date: 04/10/95 Time: 12:19:26

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	42.90	98.37
3	1.50	75.40	43.10
4	2.00	86.80	13.13
5	2.50	92.00	5.65
6	3.00	94.60	2.75
7	3.50	95.90	1.36
8	4.00	96.90	1.03
9	4.50	97.90	1.02
10	5.00	98.60	0.71
11	5.50	99.40	0.80
12	6.00	99.80	0.40
13	6.50	100.50	0.70
14	7.00	100.90	0.40

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(100.9 - 5.098667)(~~1~~ 21 RWS 4-10-95)/(200) = 10.06 E+0
(100.9 - 5.098667)(1)/(200)(12) = RWS 4-10-95 ~~+4.790E-01~~ g/L Carbon
+3.992E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 283DUP Date: 04/10/95 Time: 12:11:47

Sample Size = 200 uL Analyst : RA WENDLAND
Dil Factor = 1 Min Readings = 14
Blank ID # = BLK Max Readings = 14
Blank Value = .7281587 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	43.90	98.86
3	1.51	75.60	41.93
4	2.01	86.80	12.90
5	2.51	91.60	5.24
6	3.01	94.00	2.55
7	3.51	95.40	1.47
8	4.01	96.40	1.04
9	4.51	97.10	0.72
10	5.01	97.90	0.82
11	5.51	98.50	0.61
12	6.01	99.00	0.51
13	6.51	99.60	0.60
14	7.01	100.10	0.50

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(100.1 - 5.101333)(~~1~~ 21 RWS 4-10-95)/(200) = 9.98 E+0 g/L Carbon
(100.1 - 5.101333)(1)/(200)(12) = +3.958E-02 Molar Carbon

RWS 4-10-95 ~~+4.750E-01~~

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 284 Date: 04/10/95 Time: 12:27:01

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	20.60	96.60
3	1.51	32.90	37.39
4	2.00	37.30	11.80
5	2.50	39.80	6.28
6	3.00	41.30	3.63
7	3.50	42.40	2.59
8	4.00	43.10	1.62
9	4.50	43.90	1.82
10	5.00	44.50	1.35
11	5.50	45.00	1.11
12	6.00	45.60	1.32
13	6.50	46.20	1.30
14	7.00	46.60	0.86

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS: RWS 4-10-95
(46.6 - 5.099911) (~~1~~ 2) / (200) = 4.36 E+0 g/L Carbon
(46.6 - 5.099911) (1) / (200) (12) = RWS 4-10-95 ~~+2.08E-01~~ +1.73E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 284DUP Date: 04/10/95 Time: 12:38:14

Sample Size = 200 uL Analyst : RA WENDLAND
Dil Factor = 1 Min Readings = 14
Blank ID # = BLK Max Readings = 14
Blank Value = .7281587 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	22.90	95.20
3	1.51	33.00	30.61
4	2.01	37.30	11.53
5	2.51	39.50	5.57
6	3.01	40.80	3.19
7	3.51	41.70	2.16
8	4.01	42.50	1.88
9	4.50	43.20	1.62
10	5.01	43.60	0.92
11	5.51	44.30	1.58
12	6.01	44.70	0.89
13	6.51	45.20	1.11
14	7.00	45.80	1.31

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS: 21 RWS 4-10-95
(45.8 - 5.100667) ~~(1)~~ / (200) = RWS 4-10-95 ~~+2.03E-01~~ 4.27 E+0 g/L Carbon
(45.8 - 5.100667) (1) / (200) (12) = +1.70E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 285 Date: 04/10/95 Time: 12:59:58

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	20.40	98.53
3	1.51	30.30	32.67
4	2.01	33.50	9.55
5	2.51	35.30	5.10
6	3.01	36.60	3.55
7	3.51	37.70	2.92
8	4.01	38.30	1.57
9	4.51	38.90	1.54
10	5.01	39.60	1.77
11	5.51	40.00	1.00
12	6.01	40.60	1.48
13	6.50	41.00	0.98
14	7.00	41.40	0.97

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(41.4 - 5.100622) ~~(1)~~ 21 RWS 4.10.95 /(200) = ~~+1.81E-01~~ 3.81 E+0 RWS 4-10-95 g/L Carbon
(41.4 - 5.100622)(1)/(200)(12) = +1.51E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 285DUP Date: 04/10/95 Time: 13:10:16

Sample Size = 200 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	22.00	97.27
3	1.51	30.60	28.10
4	2.01	34.00	10.00
5	2.51	36.20	6.08
6	3.01	37.70	3.98
7	3.51	38.70	2.58
8	4.01	39.50	2.03
9	4.51	40.20	1.74
10	5.01	40.80	1.47
11	5.51	41.20	0.97
12	6.01	41.80	1.44
13	6.50	42.30	1.18
14	7.00	42.80	1.17

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(42.8 - 5.100622) ~~(1)~~ 21 RWS 4.10.95 / (200) = ~~+1.88E-01~~ 3.96 E+0 RWS 4.10.95 g/L Carbon
(42.8 - 5.100622) (1) / (200) (12) = +1.57E-02 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

8/08/95 ~~899~~ 999

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 04/10/95 Time: 13:19:04

Sample Size = 200 uL
Dil Factor = 11
Blank ID # = BLK
Blank Value = .7281587 ug/minute C

Analyst : RA WENDLAND
Min Readings = 14
Max Readings = 14
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	29.50	98.31
3	1.50	45.30	34.88
4	2.00	51.00	11.18
5	2.50	54.00	5.56
6	3.00	55.80	3.23
7	3.50	57.10	2.28
8	4.00	58.10	1.72
9	4.50	58.70	1.02
10	5.00	59.40	1.18
11	5.50	59.90	0.83
12	6.00	60.50	0.99
13	6.50	61.00	0.82
14	7.00	61.50	0.81

WHC-SD-WM-DP-074, REV. 0

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 7.003967 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(61.5 - 5.099289)(11)/(200) = +3.10E+00 g/L Carbon
(61.5 - 5.099289)(11)/(200)(12) = +2.59E-01 Molar Carbon

Sample Run By: _____
RA WENDLAND 00000

LABCORE Data Entry Template for Worklist# 210

Ar

Analyst: KRM **Instrument:** TOC01 **Method:** LA-342-100 / ~~A-1~~ A-0 RWS 12-12-94

Worklist Comment: Assigned to Ken Montieth **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK				@TICTOC1 TIC-02	SOLID			N/A	ug/g
1	BLNK				@TICTOC1 TOC-02	SOLID			N/A	ug/g
2	STD				@TICTOC1 TIC-02	SOLID		5.95E+2	N/A	~~ug/g~~ ug/L 12-8-94
2	STD				@TICTOC1 TOC-02	SOLID		2.727E+3 E+3 RWS 12-9-94	N/A	~~ug/g~~ ug/L
3	SAMPLE	S94T000265	0		@TICTOC1 TIC-02	SOLID	N/A	2.68E+3 E+3 RWS 12-9-94		ug/g
3	SAMPLE	S94T000265	0		@TICTOC1 TOC-02	SOLID	N/A	4.92E+3 E+3 RWS 12-9-94		ug/g
4	DUP	S94T000265	0		@TICTOC1 TIC-02	SOLID		2.68E+3 E+3 RWS 12-9-94	N/A	ug/g
4	DUP	S94T000265	0		@TICTOC1 TOC-02	SOLID		4.62E+3 E+3 RWS 12-9-94	N/A	ug/g
5	SAMPLE	S94T000273	0		@TICTOC1 TIC-02	SOLID	N/A	2.00E+3 E+3 RWS 12-9-94		ug/g
5	SAMPLE	S94T000273	0		@TICTOC1 TOC-02	SOLID	N/A	2.40E+3 E+3 RWS 12-9-94		ug/g
6	DUP	S94T000273	0		@TICTOC1 TIC-02	SOLID		2.05E+3 E+3 RWS 12-9-94	N/A	ug/g
6	DUP	S94T000273	0		@TICTOC1 TOC-02	SOLID		2.91E+3	N/A	ug/g
7	STD				@TICTOC1 TIC-02	SOLID		5.869E+2	N/A	~~ug/g~~ ug/L 12-8-94
7	STD				@TICTOC1 TOC-02	SOLID		2.90E+3 E+3 RWS 12-9-94	N/A	~~ug/g~~ ug/L

Final page for worklist # 210

Analyst Signature **Date** 12-8-94

TIC STD - 15N12E
TOC STD - 10N12F
S94T000265 - 0.0624 g
S94T000265-Dup - 0.1719 g

S94T000273 - 0.1217
S94T000273-Dup - 0.2218 g

Data Entry Comments: DATA ENTERED - MUST CHANGE QC 12-8-94
Data Reviewed by Rob Schroeder - QC edited RWS 12-12-94

Units shown for QC (SPK) may not reflect the actual units.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/07/94 Time: 11:21:38

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	4.00	92.50
3	1.51	84.20	95.25
4	2.01	265.20	68.25
5	2.51	429.30	38.23
6	3.00	517.40	17.03
7	3.50	560.50	7.69
8	4.00	578.20	3.06
9	4.50	585.50	1.25
10	5.00	588.70	0.54
11	5.50	590.40	0.29
12	6.00	591.50	0.19
13	6.50	592.50	0.17
14	7.00	593.30	0.13
15	7.50	593.90	0.10
16	8.00	594.60	0.12
17	8.50	595.10	0.08
18	9.00	595.60	0.08
19	9.50	596.00	0.07
20	10.00	596.40	0.07
21	10.50	596.80	0.07
22	11.00	597.20	0.07

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 1002 TO 1017.

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(597.2 - 2.200134)(1)/(1000) = +5.950E-01 g/L Carbon
(597.2 - 2.200134)(1)/(1000)(12) = +4.958E-02 Molar Carbon

Sample Run By: Leslie Diaz for KRM 1-21-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 12/07/94 Time: 11:36:24

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	285.60	99.65
3	1.50	695.40	58.93
4	2.00	798.90	12.96
5	2.50	826.40	3.33
6	3.00	836.30	1.18
7	3.50	840.20	0.46
8	4.00	842.30	0.25
9	4.50	843.80	0.18
10	5.00	844.80	0.12
11	5.50	845.60	0.09
12	6.00	846.40	0.09
13	6.50	847.00	0.07
14	7.00	847.60	0.07
15	7.50	848.10	0.06
16	8.00	848.50	0.05
17	8.50	849.00	0.06
18	9.00	849.30	0.04
19	9.50	849.70	0.05
20	10.00	850.00	0.04
21	10.50	850.30	0.04
22	11.00	850.60	0.04

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(850.6 - 32.44658)(1)/(300) = +2.727E+00 g/L Carbon
(850.6 - 32.44658)(1)/(300)(12) = +2.273E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: [signature] for KRM 1-21-95
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 12/07/94 Time: 10:27:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.10	0.00
3	1.51	0.20	50.00
4	2.01	0.20	0.00
5	2.51	0.40	50.00
6	3.00	0.50	20.00
7	3.50	0.60	16.67
8	4.00	0.80	25.00
9	4.50	0.90	11.11
10	5.00	1.00	10.00
11	5.50	1.10	9.09
12	6.00	1.20	8.33
13	6.50	1.30	7.69
14	7.00	1.50	13.33
15	7.50	1.60	6.25
16	8.00	1.70	5.88
17	8.50	1.80	5.56
18	9.00	1.90	5.26
19	9.50	2.00	5.00
20	10.00	2.00	0.00
21	10.50	2.10	4.76
22	11.00	2.20	4.55

BLANK VALUE = 2.2 micrograms carbon
BLANK FACTOR = 2.2 / 10.99963 = +2.0E-01 ug/min Carbon

Sample Run By: 12-7-94
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>> **WHC-SD-WM-DP-074, REV. 0**

Sample: BLK Date: 12/07/94 Time: 10:40:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	3.60	97.22
3	1.50	11.00	67.27
4	2.00	15.80	30.38
5	2.50	19.40	18.56
6	3.01	21.70	10.60
7	3.51	23.30	6.87
8	4.00	24.50	4.90
9	4.50	25.70	4.67
10	5.00	26.70	3.75
11	5.50	27.50	2.91
12	6.00	28.20	2.48
13	6.50	28.70	1.74
14	7.00	29.30	2.05
15	7.50	29.90	2.01
16	8.00	30.30	1.32
17	8.50	30.70	1.30
18	9.00	31.10	1.29
19	9.50	31.50	1.27
20	10.00	31.80	0.94
21	10.50	32.10	0.93
22	11.00	32.50	1.23

BLANK VALUE = 32.5 micrograms carbon
BLANK FACTOR = 32.5 / 10.99969 = +2.95E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

~~1007~~ 8/23/95

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: SAND BLK Date: 12/07/94 Time: 10:55:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.00	0.00
3	1.51	0.20	100.00
4	2.00	0.80	75.00
5	2.50	1.60	50.00
6	3.00	2.70	40.74
7	3.50	4.30	37.21
8	4.00	5.80	25.86
9	4.50	6.80	14.71
10	5.00	7.40	8.11
11	5.50	7.80	5.13
12	6.00	8.00	2.50
13	6.50	8.30	3.61
14	7.00	8.50	2.35
15	7.50	8.70	2.30
16	8.00	8.90	2.25
17	8.50	9.10	2.20
18	9.00	9.30	2.15
19	9.50	9.40	1.06
20	10.00	9.60	2.08
21	10.50	9.70	1.03
22	11.00	9.90	2.02

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(9.9 - 2.199963)(1)/(1) = +7.7E+00 g/L Carbon
(9.9 - 2.199963)(1)/(1)(12) = +6.4E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: SEA SAND Date: 12/07/94 Time: 11:08:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	8.00	100.00
3	1.51	26.40	69.70
4	2.00	35.70	26.05
5	2.50	40.10	10.97
6	3.00	42.60	5.87
7	3.50	44.20	3.62
8	4.00	45.50	2.86
9	4.50	46.50	2.15
10	5.00	47.30	1.69
11	5.50	48.00	1.46
12	6.00	48.60	1.23
13	6.50	49.20	1.22
14	7.00	49.70	1.01
15	7.50	50.20	1.00
16	8.00	50.60	0.79
17	8.50	51.00	0.78
18	9.00	51.40	0.78
19	9.50	51.70	0.58
20	10.00	52.00	0.58
21	10.50	52.30	0.57
22	11.00	52.50	0.38

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(52.5 - 32.4545)(1)/(1) = +2.00E+01 g/L Carbon
(52.5 - 32.4545)(1)/(1)(12) = +1.67E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 265 Date: 12/07/94 Time: 11:49:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	3.30	96.97
3	1.51	28.70	88.50
4	2.00	73.90	61.16
5	2.50	106.00	30.28
6	3.00	124.60	14.93
7	3.50	135.80	8.25
8	4.00	143.00	5.03
9	4.50	148.30	3.57
10	5.00	152.50	2.75
11	5.50	155.80	2.12
12	6.00	158.10	1.45
13	6.50	160.30	1.37
14	7.00	162.10	1.11
15	7.50	163.40	0.80
16	8.00	164.60	0.73
17	8.50	165.70	0.66
18	9.00	166.70	0.60
19	9.50	167.50	0.48
20	10.00	168.30	0.48
21	10.50	168.90	0.36
22	11.00	169.50	0.35

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(169.5 - 2.199976)(1)/(1) = +1.673E+02 g/L Carbon
(169.5 - 2.199976)(1)/(1)(12) = +1.394E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

0.0624 g = 2.681 E +6 ug/g

1008

LAD 1-2195

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 265 Date: 12/07/94 Time: 12:01:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	5.20	98.08
3	1.51	107.00	95.14
4	2.00	237.00	54.85
5	2.50	290.20	18.33
6	3.00	310.70	6.60
7	3.50	320.00	2.91
8	4.00	325.00	1.54
9	4.50	328.20	0.98
10	5.00	330.70	0.76
11	5.50	332.40	0.51
12	6.00	333.70	0.39
13	6.50	334.80	0.33
14	7.00	335.70	0.27
15	7.50	336.50	0.24
16	8.00	337.20	0.21
17	8.50	337.80	0.18
18	9.00	338.20	0.12
19	9.50	338.70	0.15
20	10.00	339.00	0.09
21	10.50	339.40	0.12
22	11.00	339.70	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(339.7 - 32.44388)(1)/(1) = +3.073E+02 g/L Carbon
(339.7 - 32.44388)(1)/(1)(12) = +2.560E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

0.062 g/L = 4.92E+6 ug/L

1009

LAD 1-21-95

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 265 Date: 12/07/94 Time: 13:45:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	18.90	97.35
3	1.51	139.90	86.49
4	2.00	251.10	44.29
5	2.50	318.10	21.06
6	3.00	358.60	11.29
7	3.50	384.30	6.69
8	4.00	401.10	4.19
9	4.50	413.70	3.05
10	5.00	423.60	2.34
11	5.50	430.90	1.69
12	6.00	436.80	1.35
13	6.50	441.10	0.97
14	7.00	445.40	0.97
15	7.50	448.50	0.69
16	8.00	451.00	0.55
17	8.50	453.70	0.60
18	9.00	455.80	0.46
19	9.50	457.60	0.39
20	10.00	459.00	0.31
21	10.50	460.70	0.37
22	11.00	462.10	0.30

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(462.1 - 2.200342)(1)/(1) = +4.599E+02 g/L Carbon
(462.1 - 2.200342)(1)/(1)(12) = +3.832E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

LAD - 1-21-95

.1719 g 2.010 2.68E+6 ug/g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 265 Date: 12/07/94 Time: 13:58:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	13.10	0.00
2	1.01	242.80	94.60
3	1.51	612.50	60.36
4	2.00	728.00	15.87
5	2.50	770.90	5.56
6	3.00	791.40	2.59
7	3.50	801.70	1.28
8	4.00	808.50	0.84
9	4.50	812.00	0.43
10	5.00	814.90	0.36
11	5.50	816.90	0.24
12	6.00	818.60	0.21
13	6.50	819.90	0.16
14	7.00	821.00	0.13
15	7.50	822.00	0.12
16	8.00	822.70	0.09
17	8.50	823.40	0.09
18	9.00	824.00	0.07
19	9.50	824.60	0.07
20	10.00	825.10	0.06
21	10.50	825.60	0.06
22	11.00	826.10	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(826.1 - 32.44964)(1)/(1) = +7.937E+02 g/L Carbon
(826.1 - 32.44964)(1)/(1)(12) = +6.614E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

LAD 1-21-95

.1719 g 1011 = 4.62E+6 ug/g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 273 Date: 12/07/94 Time: 14:21:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	12.20	90.98
3	1.50	61.00	80.00
4	2.00	107.90	43.47
5	2.50	139.90	22.87
6	3.00	162.80	14.07
7	3.50	179.90	9.51
8	4.00	192.90	6.74
9	4.50	203.60	5.26
10	5.00	211.20	3.60
11	5.50	217.90	3.07
12	6.00	222.60	2.11
13	6.50	226.80	1.85
14	7.00	230.50	1.61
15	7.50	233.90	1.45
16	8.00	236.40	1.06
17	8.50	238.50	0.88
18	9.00	240.60	0.87
19	9.50	242.20	0.66
20	10.00	243.60	0.57
21	10.50	244.90	0.53
22	11.00	246.10	0.49

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(246.1 - 2.200122)(1)/(1) = +2.439E+02 g/L Carbon
(246.1 - 2.200122)(1)/(1)(12) = +2.032E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

LMD 1-21-95

.1217 g 1012 2.00 E+6 ug/g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 273 Date: 12/07/94 Time: 14:34:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.90	0.00
2	1.01	104.40	96.26
3	1.51	240.00	56.50
4	2.01	282.40	15.01
5	2.51	298.60	5.43
6	3.01	306.00	2.42
7	3.50	310.00	1.29
8	4.00	312.70	0.86
9	4.50	314.60	0.60
10	5.00	316.10	0.47
11	5.50	317.20	0.35
12	6.00	318.10	0.28
13	6.50	319.00	0.28
14	7.00	319.70	0.22
15	7.50	320.40	0.22
16	8.00	321.00	0.19
17	8.50	321.50	0.16
18	9.00	322.10	0.19
19	9.50	322.60	0.15
20	10.00	323.10	0.15
21	10.50	323.50	0.12
22	11.00	324.00	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(324 - 32.45198)(1)/(1) = +2.915E+02 g/L Carbon
(324 - 32.45198)(1)/(1)(12) = +2.430E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

LAD 1-21-95

.1217 g 1013 2.40 ug/g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 273 Date: 12/07/94 Time: 14:47:00

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	11.90	97.48
3	1.51	88.30	86.52
4	2.00	188.80	53.23
5	2.50	257.80	26.76
6	3.00	303.20	14.97
7	3.50	336.10	9.79
8	4.00	361.60	7.05
9	4.50	382.30	5.41
10	5.00	398.40	4.04
11	5.50	410.80	3.02
12	6.00	420.00	2.19
13	6.50	427.50	1.75
14	7.00	433.30	1.34
15	7.50	438.10	1.10
16	8.00	442.40	0.97
17	8.50	446.00	0.81
18	9.00	448.80	0.62
19	9.50	451.10	0.51
20	10.00	453.40	0.51
21	10.50	455.50	0.46
22	11.00	457.20	0.37

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(457.2 - 2.200134)(1)/(1) = +4.550E+02 g/L Carbon
(457.2 - 2.200134)(1)/(1)(12) = +3.792E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

LAD 1-21-95

.2218 1014 2.05 E+6 µg/g

P

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 273 Date: 12/07/94 Time: 15:01:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	32.90	0.00
2	1.01	308.90	89.35
3	1.50	541.60	42.97
4	2.00	612.80	11.62
5	2.50	639.70	4.21
6	3.00	651.30	1.78
7	3.50	657.50	0.94
8	4.00	661.40	0.59
9	4.50	663.90	0.38
10	5.00	665.80	0.29
11	5.50	667.60	0.27
12	6.00	669.20	0.24
13	6.50	670.40	0.18
14	7.00	671.60	0.18
15	7.50	672.60	0.15
16	8.00	673.60	0.15
17	8.50	674.50	0.13
18	9.00	675.20	0.10
19	9.50	676.00	0.12
20	10.00	676.70	0.10
21	10.50	677.40	0.10
22	11.00	678.10	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(678.1 - 32.45738)(1)/(1) = +6.456E+02 g/L Carbon
(678.1 - 32.45738)(1)/(1)(12) = +5.380E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

LAD 1-21-95

.2218 g 1015 2.91 E+6 ug/g

PPP

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT

TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/07/94 Time: 15:20:26

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .2 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	17.10	0.00
2	1.01	201.10	91.50
3	1.50	381.60	47.30
4	2.00	498.20	23.40
5	2.50	551.80	9.71
6	3.00	572.20	3.57
7	3.50	579.30	1.23
8	4.00	581.60	0.40
9	4.50	582.80	0.21
10	5.00	583.60	0.14
11	5.50	584.20	0.10
12	6.00	584.90	0.12
13	6.50	585.40	0.09
14	7.00	585.90	0.09
15	7.50	586.30	0.07
16	8.00	586.90	0.10
17	8.50	587.20	0.05
18	9.00	587.60	0.07
19	9.50	588.00	0.07
20	10.00	588.40	0.07
21	10.50	588.70	0.05
22	11.00	589.10	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 2.199939 micrograms carbon
BLANK FACTOR = 2.199939 / 10.99969 = +2.0E-01 ug/min Carbon

SAMPLE RESULTS:
(589.1 - 2.200134)(1)/(1000) = +5.869E-01 g/L Carbon
(589.1 - 2.200134)(1)/(1000)(12) = +4.891E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

P

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/07/94 Time: 15:59:50

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.70	0.00
2	1.01	211.40	97.78
3	1.51	646.60	67.31
4	2.00	825.10	21.63
5	2.50	871.70	5.35
6	3.00	887.30	1.76
7	3.50	892.20	0.55
8	4.00	894.50	0.26
9	4.50	895.80	0.15
10	5.00	896.80	0.11
11	5.50	897.60	0.09
12	6.00	898.30	0.08
13	6.50	898.90	0.07
14	7.00	899.40	0.06
15	7.50	899.90	0.06
16	8.00	900.30	0.04
17	8.50	900.80	0.06
18	9.00	901.10	0.03
19	9.50	901.50	0.04
20	10.00	901.80	0.03
21	10.50	902.10	0.03
22	11.00	902.40	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 32.4491 micrograms carbon
BLANK FACTOR = 32.4491 / 10.99969 = +3.0E+00 ug/min Carbon

SAMPLE RESULTS:
(902.4 - 32.44964)(1)/(300) = +2.900E+00 g/L Carbon
(902.4 - 32.44964)(1)/(300)(12) = +2.417E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

LABCORE Data Entry Template for Worklist# 211

Analyst: KRM **Instrument:** TOC01 **Method:** LA-342-100 A-0

Ken Monteith

Worklist Comment: Assigned to ~~Rob Wendland~~, Persulfate oxidation. **WHC-SD-WM-DP-074, REV. 0**

RWS 12-15-94

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK				@TICTOC1 TIC-02	SOLID	~~4.1E~~ 4.5	~~4.1E~~ 4.5	N/A	~~ug/g~~ ug
1	BLNK				@TICTOC1 TOC-02	SOLID	~~3.01E~~ 33.8	~~3.07E~~ 33.8	N/A	~~ug/g~~ ug
2	STD	15N12E			@TICTOC1 TIC-02	SOLID	$6.00E^{+2}$	$5.82E^{+2}$	N/A	ug/~~g~~ mL
2	STD	10N12F			@TICTOC1 TOC-02	SOLID	$3.00E^{+3}$	$2.68E^{+3}$	N/A	ug/~~g~~ mL
3	SAMPLE	S94T000274	0		@TICTOC1 TIC-02	SOLID	N/A	$6.45E^{+3}$	5.00	ug/g
3	SAMPLE	S94T000274	0		@TICTOC1 TOC-02	SOLID	N/A	$1.00E^{+4}$	80.0	ug/g
4	DUP	S94T000274	0		@TICTOC1 TIC-02	SOLID	$6.45E^{+3}$	$6.37E^{+3}$	N/A	ug/g
4	DUP	S94T000274	0		@TICTOC1 TOC-02	SOLID	$1.00E^{+4}$	$9.15E^{+3}$	N/A	ug/g
5	SAMPLE	S94T000275	0		@TICTOC1 TIC-02	SOLID	N/A	$8.66E^{+3}$	5.00	ug/g
5	SAMPLE	S94T000275	0		@TICTOC1 TOC-02	SOLID	N/A	$1.03E^{+4}$	80.00	ug/g
6	DUP	S94T000275	0		@TICTOC1 TIC-02	SOLID	$8.66E^{+3}$	$8.95E^{+3}$	N/A	ug/g
6	DUP	S94T000275	0		@TICTOC1 TOC-02	SOLID	$1.03E^{+4}$	$1.08E^{+4}$	N/A	ug/g
7	STD	15N12E			@TICTOC1 TIC-02	SOLID	$6.00E^{+2}$	$5.83E^{+2}$	N/A	ug/~~g~~ mL
7	STD	10N12F			@TICTOC1 TOC-02	SOLID	$3.00E^{+3}$	$2.87E^{+3}$	N/A	ug/~~g~~ mL

Final page for worklist # 211

Analyst Signature **Date** 12-15-94

S94T000274 - 0.0504 g
S94T000274 - Dup - 0.0783 g

S94T000275 - 0.0777 g
S94T000275 - Dup - 0.0710 g
12-15-94

Data Entry Comments:

Data entry reviewed 12-20-94 RWSchroeder

Units shown for QC (SPK) may not reflect the actual units.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>> **WHC-SD-WM-DP-074, REV. 0**

Sample: BLK Date: 12/15/94 Time: 19:20:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.10	63.64
3	1.50	1.70	35.29
4	2.00	1.90	10.53
5	2.50	2.10	9.52
6	3.00	2.30	8.70
7	3.50	2.40	4.17
8	4.00	2.60	7.69
9	4.50	2.70	3.70
10	5.00	2.90	6.90
11	5.50	3.00	3.33
12	6.00	3.20	6.25
13	6.50	3.20	0.00
14	7.00	3.40	5.88
15	7.50	3.60	5.56
16	8.00	3.70	2.70
17	8.50	3.80	2.63
18	9.00	4.00	5.00
19	9.50	4.10	2.44
20	10.00	4.30	4.65
21	10.50	4.40	2.27
22	11.00	4.50	2.22

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 1019 **TO** 1032.

BLANK VALUE = 4.5 micrograms carbon
BLANK FACTOR = 4.5 / 10.99963 = +4.1E-01 ug/min Carbon

Sample Run By: 12-15-94
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

WHC-SD-WM-DP-074, REV. 0

Sample: BLK Date: 12/15/94 Time: 19:34:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	4.90	100.00
3	1.50	14.70	66.67
4	2.00	21.20	30.66
5	2.50	23.80	10.92
6	3.00	26.20	9.16
7	3.50	28.10	6.76
8	4.00	28.80	2.43
9	4.50	29.70	3.03
10	5.00	30.40	2.30
11	5.50	30.90	1.62
12	6.00	31.30	1.28
13	6.50	31.60	0.95
14	7.00	32.00	1.25
15	7.50	32.30	0.93
16	8.00	32.50	0.62
17	8.50	32.70	0.61
18	9.00	33.00	0.91
19	9.50	33.30	0.90
20	10.00	33.40	0.30
21	10.50	33.60	0.60
22	11.00	33.80	0.59

BLANK VALUE = 33.8 micrograms carbon
BLANK FACTOR = 33.8 / 10.99878 = +3.07E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/15/94 Time: 19:47:54

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.80	0.00
2	1.01	63.70	97.17
3	1.50	284.00	77.57
4	2.01	461.40	38.45
5	2.51	540.80	14.68
6	3.01	570.00	5.12
7	3.51	579.50	1.64
8	4.00	581.70	0.38
9	4.50	583.10	0.24
10	5.00	583.50	0.07
11	5.50	584.00	0.09
12	6.00	584.30	0.05
13	6.50	584.70	0.07
14	7.00	584.90	0.03
15	7.50	585.20	0.05
16	8.00	585.50	0.05
17	8.50	585.70	0.03
18	9.00	585.90	0.03
19	9.50	586.10	0.03
20	10.00	586.30	0.03
21	10.50	586.50	0.03
22	11.00	586.70	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(586.7 - 4.51055)(1)/(1000) = +5.822E-01 g/L Carbon
(586.7 - 4.51055)(1)/(1000)(12) = +4.852E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/15/94 Time: 20:00:16

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	150.80	100.00
3	1.51	574.10	73.73
4	2.00	770.10	25.45
5	2.50	812.00	5.16
6	3.00	825.20	1.60
7	3.50	830.60	0.65
8	4.00	831.90	0.16
9	4.50	833.00	0.13
10	5.00	834.10	0.13
11	5.50	834.70	0.07
12	6.00	835.40	0.08
13	6.50	836.00	0.07
14	7.00	836.40	0.05
15	7.50	836.80	0.05
16	8.00	837.20	0.05
17	8.50	837.60	0.05
18	9.00	837.90	0.04
19	9.50	838.10	0.02
20	10.00	838.40	0.04
21	10.50	838.70	0.04
22	11.00	839.00	0.04

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(839 - 33.76663)(1)/(300) = +2.684E+00 g/L Carbon
(839 - 33.76663)(1)/(300)(12) = +2.237E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 274 Date: 12/15/94 Time: 20:15:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.50	0.00
2	1.01	11.60	87.07
3	1.50	98.50	88.22
4	2.00	184.10	46.50
5	2.50	237.70	22.55
6	3.00	268.90	11.60
7	3.50	284.50	5.48
8	4.00	294.40	3.36
9	4.50	301.50	2.35
10	5.00	306.40	1.60
11	5.50	310.70	1.38
12	6.00	313.70	0.96
13	6.50	316.90	1.01
14	7.00	319.10	0.69
15	7.50	320.70	0.50
16	8.00	322.80	0.65
17	8.50	323.90	0.34
18	9.00	325.50	0.49
19	9.50	326.60	0.34
20	10.00	327.70	0.34
21	10.50	328.50	0.24
22	11.00	329.40	0.27

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(329.4 - 4.5098)(1)/(1) = +3.249E+02 g/L Carbon
(329.4 - 4.5098)(1)/(1)(12) = +2.707E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

0.05049

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 274 Date: 12/15/94 Time: 20:27:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.10	0.00
2	1.01	145.10	98.55
3	1.51	337.70	57.03
4	2.00	450.90	25.11
5	2.50	495.30	8.96
6	3.00	511.90	3.24
7	3.50	519.30	1.42
8	4.00	523.90	0.88
9	4.50	526.50	0.49
10	5.00	528.20	0.32
11	5.50	530.40	0.41
12	6.00	531.70	0.24
13	6.50	532.50	0.15
14	7.00	533.40	0.17
15	7.50	534.30	0.17
16	8.00	534.90	0.11
17	8.50	535.30	0.07
18	9.00	535.80	0.09
19	9.50	536.40	0.11
20	10.00	536.90	0.09
21	10.50	537.30	0.07
22	11.00	537.70	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(537.7 - 33.764)(1)/(1) = +5.039E+02 g/L Carbon
(537.7 - 33.764)(1)/(1)(12) = +4.199E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.0504g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 274 Date: 12/15/94 Time: 20:39:13

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	22.80	99.12
3	1.51	156.30	85.41
4	2.00	287.90	45.71
5	2.50	367.10	21.57
6	3.00	410.60	10.59
7	3.50	435.30	5.67
8	4.00	449.80	3.22
9	4.50	461.80	2.60
10	5.00	470.20	1.79
11	5.50	476.60	1.34
12	6.00	481.40	1.00
13	6.50	485.10	0.76
14	7.00	488.60	0.72
15	7.50	491.40	0.57
16	8.00	493.80	0.49
17	8.50	496.40	0.52
18	9.00	497.70	0.26
19	9.50	499.50	0.36
20	10.00	501.10	0.32
21	10.50	502.10	0.20
22	11.00	503.30	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(503.3 - 4.5103)(1)/(1) = +4.988E+02 g/L Carbon
(503.3 - 4.5103)(1)/(1)(12) = +4.157E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

0.0783 g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 274 Date: 12/15/94 Time: 20:51:27

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	5.30	0.00
2	1.01	267.30	98.02
3	1.50	579.50	53.87
4	2.00	679.50	14.72
5	2.50	713.40	4.75
6	3.00	727.10	1.88
7	3.50	733.40	0.86
8	4.00	737.50	0.56
9	4.50	739.80	0.31
10	5.00	741.50	0.23
11	5.50	742.90	0.19
12	6.00	744.10	0.16
13	6.50	745.10	0.13
14	7.00	745.90	0.11
15	7.50	746.70	0.11
16	8.00	747.30	0.08
17	8.50	748.00	0.09
18	9.00	748.70	0.09
19	9.50	749.10	0.05
20	10.00	749.60	0.07
21	10.50	750.10	0.07
22	11.00	750.60	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(750.6 - 33.76625)(1)/(1) = +7.168E+02 g/L Carbon
(750.6 - 33.76625)(1)/(1)(12) = +5.974E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

0.0783g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 275 Date: 12/15/94 Time: 22:30:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	40.30	97.02
3	1.50	259.00	84.44
4	2.00	432.50	40.12
5	2.50	532.10	18.72
6	3.00	585.40	9.10
7	3.50	614.80	4.78
8	4.00	629.70	2.37
9	4.50	639.50	1.53
10	5.00	646.80	1.13
11	5.50	651.60	0.74
12	6.00	656.00	0.67
13	6.50	659.80	0.58
14	7.00	662.60	0.42
15	7.50	665.60	0.45
16	8.00	667.80	0.33
17	8.50	669.90	0.31
18	9.00	671.60	0.25
19	9.50	673.20	0.24
20	10.00	674.50	0.19
21	10.50	675.90	0.21
22	11.00	677.20	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(677.2 - 4.5098)(1)/(1) = +6.727E+02 g/L Carbon
(677.2 - 4.5098)(1)/(1)(12) = +5.606E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

0.07772

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 275 Date: 12/15/94 Time: 22:42:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	10.40	0.00
2	1.01	320.50	96.76
3	1.51	624.10	48.65
4	2.01	747.70	16.53
5	2.51	788.30	5.15
6	3.00	805.80	2.17
7	3.50	813.00	0.89
8	4.00	818.20	0.64
9	4.50	821.10	0.35
10	5.00	823.40	0.28
11	5.50	825.10	0.21
12	6.00	826.40	0.16
13	6.50	827.60	0.14
14	7.00	828.60	0.12
15	7.50	829.50	0.11
16	8.00	830.20	0.08
17	8.50	831.00	0.10
18	9.00	831.80	0.10
19	9.50	832.30	0.06
20	10.00	833.10	0.10
21	10.50	833.60	0.06
22	11.00	834.20	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(834.2 - 33.76888)(1)/(1) = +8.004E+02 g/L Carbon
(834.2 - 33.76888)(1)/(1)(12) = +6.670E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

0.0777g

P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 275 Date: 12/15/94 Time: 22:54:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	51.90	98.27
3	1.51	265.50	80.45
4	2.00	418.80	36.60
5	2.50	503.80	16.87
6	3.00	550.00	8.40
7	3.50	576.60	4.61
8	4.00	590.40	2.34
9	4.50	599.50	1.52
10	5.00	606.90	1.22
11	5.50	613.00	1.00
12	6.00	617.00	0.65
13	6.50	621.30	0.69
14	7.00	624.60	0.53
15	7.50	627.30	0.43
16	8.00	629.90	0.41
17	8.50	632.40	0.40
18	9.00	634.10	0.27
19	9.50	635.90	0.28
20	10.00	637.60	0.27
21	10.50	639.00	0.22
22	11.00	640.30	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(640.3 - 4.50995)(1)/(1) = +6.358E+02 g/L Carbon
(640.3 - 4.50995)(1)/(1)(12) = +5.298E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

0.0710g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 275 Date: 12/15/94 Time: 23:06:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	8.50	0.00
2	1.01	318.00	97.33
3	1.50	602.30	47.20
4	2.00	717.80	16.09
5	2.50	754.90	4.91
6	3.00	771.80	2.19
7	3.50	780.20	1.08
8	4.00	784.20	0.51
9	4.50	787.10	0.37
10	5.00	789.20	0.27
11	5.50	790.80	0.20
12	6.00	792.30	0.19
13	6.50	793.50	0.15
14	7.00	794.40	0.11
15	7.50	795.40	0.13
16	8.00	796.10	0.09
17	8.50	796.90	0.10
18	9.00	797.60	0.09
19	9.50	798.20	0.08
20	10.00	798.80	0.08
21	10.50	799.50	0.09
22	11.00	800.00	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(800 - 33.764)(1)/(1) = +7.662E+02 g/L Carbon
(800 - 33.764)(1)/(1)(12) = +6.385E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

0.0710g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/15/94 Time: 23:19:50

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .41 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	86.80	98.96
3	1.51	295.50	70.63
4	2.00	455.80	35.17
5	2.50	533.40	14.55
6	3.00	566.80	5.89
7	3.50	576.90	1.75
8	4.00	580.10	0.55
9	4.50	581.20	0.19
10	5.00	582.00	0.14
11	5.50	582.80	0.14
12	6.00	583.40	0.10
13	6.50	583.70	0.05
14	7.00	584.30	0.10
15	7.50	584.70	0.07
16	8.00	585.20	0.09
17	8.50	585.60	0.07
18	9.00	586.20	0.10
19	9.50	586.60	0.07
20	10.00	586.90	0.05
21	10.50	587.30	0.07
22	11.00	587.80	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 4.5095 micrograms carbon
BLANK FACTOR = 4.5095 / 10.99878 = +4.1E-01 ug/min Carbon

SAMPLE RESULTS:
(587.8 - 4.50985)(1)/(1000) = +5.833E-01 g/L Carbon
(587.8 - 4.50985)(1)/(1000)(12) = +4.861E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 12/15/94 Time: 23:35:32

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.07 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	157.30	99.24
3	1.50	591.30	73.40
4	2.00	808.70	26.88
5	2.51	863.30	6.32
6	3.01	879.40	1.83
7	3.51	884.40	0.57
8	4.00	886.50	0.24
9	4.50	887.90	0.16
10	5.00	888.80	0.10
11	5.50	889.70	0.10
12	6.00	890.40	0.08
13	6.50	891.10	0.08
14	7.00	891.70	0.07
15	7.50	892.30	0.07
16	8.00	892.80	0.06
17	8.50	893.20	0.04
18	9.00	893.70	0.06
19	9.50	894.20	0.06
20	10.00	894.60	0.04
21	10.50	894.90	0.03
22	11.00	895.20	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 33.76625 micrograms carbon
BLANK FACTOR = 33.76625 / 10.99878 = +3.1E+00 ug/min Carbon

SAMPLE RESULTS:
(895.2 - 33.77525)(1)/(300) = +2.871E+00 g/L Carbon
(895.2 - 33.77525)(1)/(300)(12) = +2.393E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

LABCORE Data Entry Template for Worklist# 31 A-0

Analyst: KRM **Instrument:** TOC01 **Method:** LA-342-100 A-0

Worklist Comment: batch# 34, RWS @Tic/Toc **WHC-SD-WM-DP-074, REV. 0**

Seg	Type	Sample#	Rep	Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK		0		@TICTOC1 TIC-02	SOLID		6.7237	N/A	ug/g
1	BLNK		0		@TICTOC1 TOC-02	SOLID		105.7	N/A	ug/g
2	STD		0		@TICTOC1 TIC-02	SOLID	5.0E-2 M	5.066E-2 M	N/A	ug/g
2	STD		0		@TICTOC1 TIC-02	SOLID	3.0 g/L	2.72 g/L	N/A	ug/g
3	SAMPLE	S94T000028	0	W	@TICTOC1 TIC-02	SOLID	N/A	2.69E+3	1.53E+1	ug/g
3	SAMPLE	S94T000028	0	W	@TICTOC1 TOC-02	SOLID	N/A	4.53E+3	1.53E+2	ug/g
4	DUP	S94T000028	0	W	@TICTOC1 TIC-02	SOLID		3.23E+3	N/A	ug/g
4	DUP	S94T000028	0	W	@TICTOC1 TIC-02	SOLID		1.87E3	N/A	ug/g

Final page for worklist # 31

Analyst Signature

9-22-94
Date

		COULOMETER	ug/L CARBON	WEIGHT
BLK	TIC	2.2	2.0E-1	
BLK	TOC	34.60	3.15E0	
S94T000028	TIC	882.10	8.799E+2	
S94T000028	TOC	1517.50	1.4828E+3	
S94T000028	TIC	163.2	~~9.325E+1~~ 1.610E+2 9-26-94 KRM	0.3272
S94T000028	TOC	127.9	9.325E+1	0.3272
STD				0.0498
STD				0.0498

SAMPLE WITH WEIGHT 0.3272 HAD SOME CRYSTALS IN SAMPLE
SAMPLE WITH WEIGHT 0.0498 HAD NO CRYSTALS

Data Entry Comments: Entered and approved. Robert W Schroeder 9-27-94
This was a Screening for TOC. The QC is unimportant to the costomer.

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 1034 TO 1041.

BEST AVAILABLE COPY

Fedie Diaz for Ken 1-21-95

BEST AVAILABLE COPY

Teresa Diaz for KLM 1-21-95

BEST AVAILABLE COPY

BEST AVAILABLE COPY

9-22-94

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Sy 103

LABCORE Data Entry Template for Worklist# 161

Analyst: KRM **Instrument:** TOC01 _____ **Method:** LA-342-100 A-0

Worklist Comment: Ken Montieth- Non-homog.sample. Just do the best you can.

Seg	Type	Sample#	Rep Al	Test	Matrix	Actual	Found	DL	Unit
1	BLNK			@TICTOC1 TIC-02	SOLID	0	3.70	N/A	ug ~~ug/g~~ RWS 12-1-94
1	BLNK			@TICTOC1 TOC-02	SOLID	0	20.90	N/A	ug ~~ug/g~~ RWS 12-1-94
2	STD	15N12C		@TICTOC1 TIC-02	SOLID	LAD 12-6-94 601 ~~585~~	585	N/A	mg/mL ~~ug/g~~ RWS 12-1-94
2	STD			@TICTOC1 TOC-02	SOLID	3.00E3	2.80E03	N/A	mg/mL ~~ug/g~~ RWS 12-1-94
3	SAMPLE	S94T000091	0	@TICTOC1 TIC-02	SOLID	N/A	22002.83	100.0	ug/g
3	SAMPLE	S94T000091	0	@TICTOC1 TOC-02	SOLID	N/A	11162.66	400.0	ug/g
4	DUP	S94T000091	0	@TICTOC1 TIC-02	SOLID	220E+4	12050.49	N/A	ug/g
4	DUP	S94T000091	0	@TICTOC1 TOC-02	SOLID	1.12E+4	10363.30	N/A	ug/g
5	SAMPLE	S94T000092	0	@TICTOC1 TIC-02	SOLID	N/A	10385.06	100.0	ug/g
5	SAMPLE	S94T000092	0	@TICTOC1 TOC-02	SOLID	N/A	6482.76	400.0	ug/g
6	DUP	S94T000092	0	@TICTOC1 TIC-02	SOLID	1.04E+4	15735.63	N/A	ug/g
6	DUP	S94T000092	0	@TICTOC1 TOC-02	SOLID	6.48E+3	14070.40	N/A	ug/g
7	STD			@TICTOC1 TIC-02	SOLID	601	597	N/A	ug/g
7	STD			@TICTOC1 TOC-02	SOLID	3.00E+3	2.81E+3	N/A	ug/g

Final page for worklist # 161

[signature]
Analyst Signature

11-20-94
Date

S94T000091 - 0.0707 g
S94T000091-Dup - 0.0812 g
S94T000092 - 0.0348 g
S94T000092-Dup - 0.0696 g

TIC-STD - 15N12-C
TOC-STD - 10N12F

WHC-SD-WM-DP-074, REV. 0

Data Entry Comments:
S94T000091 DUP HAD MORE LIQUID THAN ~~I GOT~~ KRM 11-18-94 IN THE FIRST SAMPLE

Data Entered 11/30/94 RWS

Data Reviewed 11/30/94 RWS

Units shown for QC (SPK) may not reflect the actual units.

1042

Page: 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 11/20/94 Time: 20:17:14

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	31.80	100.00
3	1.51	220.60	85.58
4	2.00	407.80	45.90
5	2.50	514.90	20.80
6	3.00	556.20	7.43
7	3.50	573.40	3.00
8	4.00	579.40	1.04
9	4.50	582.10	0.46
10	5.00	583.50	0.24
11	5.50	584.40	0.15
12	6.00	585.20	0.14
13	6.50	585.80	0.10
14	7.00	586.30	0.09
15	7.50	586.70	0.07
16	8.00	587.20	0.09
17	8.50	587.50	0.05
18	9.00	587.80	0.05
19	9.50	588.10	0.05
20	10.00	588.40	0.05
21	10.50	588.70	0.05
22	11.00	588.80	0.02

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 1043 TO 1056.

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS:
(588.8 - 3.739959)(1)/(1000) = +5.851E-01 g/L Carbon
(588.8 - 3.739959)(1)/(1000)(12) = +4.876E-02 Molar Carbon

Sample Run By: Leslie Diaz for KRM
KR MONTEITH 00000

STD - 15N12C

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 11/20/94 Time: 20:31:45

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.9 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.80	0.00
2	1.01	268.30	99.33
3	1.51	654.00	58.98
4	2.00	784.60	16.65
5	2.50	825.00	4.90
6	3.01	840.60	1.86
7	3.51	846.30	0.67
8	4.01	849.20	0.34
9	4.50	851.10	0.22
10	5.00	852.50	0.16
11	5.50	853.50	0.12
12	6.00	854.60	0.13
13	6.50	855.40	0.09
14	7.00	856.00	0.07
15	7.50	856.60	0.07
16	8.00	857.20	0.07
17	8.50	857.70	0.06
18	9.00	858.30	0.07
19	9.50	858.60	0.03
20	10.00	859.00	0.05
21	10.50	859.30	0.03
22	11.00	859.70	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(859.7 - 20.90325)(1)/(300) = +2.796E+00 g/L Carbon
(859.7 - 20.90325)(1)/(300)(12) = +2.330E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Leslie Dray for Kem
KR MONTEITH 1-21-95 00000

1044

STD - 10 N 12 F

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/20/94 Time: 19:52:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	1.20	83.33
3	1.51	1.20	0.00
4	2.00	1.50	20.00
5	2.50	1.70	11.76
6	3.00	2.00	15.00
7	3.50	2.10	4.76
8	4.00	2.20	4.55
9	4.50	2.30	4.35
10	5.00	2.40	4.17
11	5.50	2.60	7.69
12	6.00	2.70	3.70
13	6.50	2.70	0.00
14	7.00	2.80	3.57
15	7.50	2.90	3.45
16	8.00	3.10	6.45
17	8.50	3.10	0.00
18	9.00	3.30	6.06
19	9.50	3.40	2.94
20	10.00	3.40	0.00
21	10.50	3.50	2.86
22	11.00	3.70	5.41

BLANK VALUE = 3.7 micrograms carbon
BLANK FACTOR = 3.7 / 10.9989 = +3.4E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

WHC-SD-WM-DP-074, REV. 0

Sample: BLK Date: 11/20/94 Time: 20:04:28

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	3.90	100.00
3	1.50	9.40	58.51
4	2.00	12.80	26.56
5	2.50	14.40	11.11
6	3.00	15.50	7.10
7	3.50	16.30	4.91
8	4.00	17.10	4.68
9	4.50	17.70	3.39
10	5.00	18.20	2.75
11	5.50	18.50	1.62
12	6.00	18.90	2.12
13	6.50	19.10	1.05
14	7.00	19.40	1.55
15	7.50	19.70	1.52
16	8.00	19.80	0.51
17	8.50	20.00	1.00
18	9.00	20.20	0.99
19	9.50	20.40	0.98
20	10.00	20.60	0.97
21	10.50	20.80	0.96
22	11.00	20.90	0.48

BLANK VALUE = 20.9 micrograms carbon
BLANK FACTOR = 20.9 / 10.9989 = +1.90E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

11/29/94

Sample Run By: Ru Schroeder for KR Monteith
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 91 Date: 11/20/94 Time: 20:44:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	44.70	100.00
3	1.51	368.50	87.87
4	2.00	776.00	52.51
5	2.50	1073.10	27.69
6	3.00	1244.50	13.77
7	3.50	1351.50	7.92
8	4.00	1419.50	4.79
9	4.50	1458.90	2.70
10	5.00	1480.60	1.47
11	5.50	1495.30	0.98
12	6.00	1511.30	1.06
13	6.50	1522.40	0.73
14	7.00	1530.20	0.51
15	7.50	1536.30	0.40
16	8.00	1541.10	0.31
17	8.50	1545.50	0.28
18	9.00	1549.10	0.23
19	9.50	1552.10	0.19
20	10.00	1554.90	0.18
21	10.50	1557.20	0.15
22	11.00	1559.30	0.13

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS:
(1559.3 - 3.740208)(1)/(1) = +1.5556E+03 g/L Carbon
(1559.3 - 3.740208)(1)/(1)(12) = +1.2963E+02 Molar Carbon

Sample Run By: KR MONTEITH 00000

1047

22002.83 g/g

SAMPLE SIZE - 0.07072

LAD 1-21-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 91 Date: 11/20/94 Time: 20:57:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.9 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.90	0.00
2	1.01	209.10	98.13
3	1.50	495.40	57.79
4	2.00	657.90	24.70
5	2.50	727.70	9.59
6	3.00	760.20	4.28
7	3.50	774.60	1.86
8	4.00	782.70	1.03
9	4.50	788.20	0.70
10	5.00	791.80	0.45
11	5.50	794.70	0.36
12	6.00	797.00	0.29
13	6.50	799.10	0.26
14	7.00	801.00	0.24
15	7.50	802.60	0.20
16	8.00	803.90	0.16
17	8.50	805.20	0.16
18	9.00	806.40	0.15
19	9.50	807.40	0.12
20	10.00	808.40	0.12
21	10.50	809.30	0.11
22	11.00	810.10	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(810.1 - 20.90116)(1)/(1) = +7.892E+02 g/L Carbon
(810.1 - 20.90116)(1)/(1)(12) = +6.577E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

1048 SAMPLE SIZE 0.0707 g 11162.66 ug/g

LAD 1-21-95

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 91 DUP Date: 11/20/94 Time: 22:27:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	8.30	98.80
3	1.51	139.20	94.04
4	2.01	387.10	64.04
5	2.51	610.90	36.63
6	3.00	751.70	18.73
7	3.50	830.90	9.53
8	4.00	880.40	5.62
9	4.50	909.40	3.19
10	5.00	926.00	1.79
11	5.50	937.20	1.20
12	6.00	945.70	0.90
13	6.50	952.40	0.70
14	7.00	958.20	0.61
15	7.50	962.70	0.47
16	8.00	966.80	0.42
17	8.50	970.40	0.37
18	9.00	973.30	0.30
19	9.50	976.00	0.28
20	10.00	978.30	0.24
21	10.50	980.50	0.22
22	11.00	982.20	0.17

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS:
(982.2 - 3.740208)(1)/(1) = +9.785E+02 g/L Carbon
(982.2 - 3.740208)(1)/(1)(12) = +8.154E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

SAMPLE SIZE - 0.0812g 12050.49 ug/g

LAD 1-21-95

1049

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 91 DUP Date: 11/20/94 Time: 22:39:53

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 1.9 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.80	0.00
2	1.01	193.40	98.55
3	1.51	500.90	61.39
4	2.00	690.70	27.48
5	2.50	771.00	10.42
6	3.00	809.10	4.71
7	3.50	826.60	2.12
8	4.01	835.20	1.03
9	4.50	840.90	0.68
10	5.00	844.60	0.44
11	5.50	847.50	0.34
12	6.00	849.90	0.28
13	6.50	851.80	0.22
14	7.00	853.50	0.20
15	7.50	855.00	0.18
16	8.00	856.40	0.16
17	8.50	857.60	0.14
18	9.00	858.70	0.13
19	9.50	859.80	0.13
20	10.00	860.70	0.10
21	10.50	861.60	0.10
22	11.00	862.40	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(862.4 - 20.90325)(1)/(1) = +8.415E+02 g/L Carbon
(862.4 - 20.90325)(1)/(1)(12) = +7.012E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

SAMPLE SIZE - 0.0812g 10363.30 ug/g
LAD
1-21-95

1050

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 92 Date: 11/20/94 Time: 22:52:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	3.80	81.58
3	1.51	36.90	89.70
4	2.00	104.90	64.82
5	2.50	186.60	43.78
6	3.00	253.90	26.51
7	3.50	295.20	13.99
8	4.00	316.60	6.76
9	4.50	328.10	3.51
10	5.00	335.00	2.06
11	5.50	340.00	1.47
12	6.00	344.30	1.25
13	6.50	347.90	1.03
14	7.00	350.70	0.80
15	7.50	353.50	0.79
16	8.00	355.70	0.62
17	8.50	357.70	0.56
18	9.00	359.60	0.53
19	9.50	361.20	0.44
20	10.00	362.60	0.39
21	10.50	364.00	0.38
22	11.00	365.10	0.30

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS:
(365.1 - 3.740249)(1)/(1) = +3.614E+02 g/L Carbon
(365.1 - 3.740249)(1)/(1)(12) = +3.011E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

SAMPLE SIZE 0.0348g ug/g
LAD 1-21-95 1051 10385.06 ~~g/g~~
LAD 1-21-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 92 Date: 11/20/94 Time: 23:04:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.9 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	8.30	87.95
3	1.50	76.40	89.14
4	2.00	152.60	49.93
5	2.50	197.20	22.62
6	3.00	217.70	9.42
7	3.50	226.60	3.93
8	4.00	231.00	1.90
9	4.50	233.80	1.20
10	5.00	235.80	0.85
11	5.50	237.50	0.72
12	6.00	238.90	0.59
13	6.50	240.00	0.46
14	7.00	241.00	0.41
15	7.50	241.80	0.33
16	8.00	242.70	0.37
17	8.50	243.30	0.25
18	9.00	244.00	0.29
19	9.50	244.70	0.29
20	10.00	245.30	0.24
21	10.50	245.90	0.24
22	11.00	246.50	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(246.5 - 20.90116)(1)/(1) = +2.256E+02 g/L Carbon
(246.5 - 20.90116)(1)/(1)(12) = +1.880E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

SAMPLE SIZE ~~0.0696g~~ KRM 11-20-94 0.0348g 6482.76 ug/g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 92 DUP Date: 11/20/94 Time: 23:17:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	8.30	93.98
3	1.50	99.30	91.64
4	2.00	304.40	67.38
5	2.51	577.20	47.26
6	3.01	789.70	26.91
7	3.51	904.00	12.64
8	4.00	968.00	6.61
9	4.50	1006.70	3.84
10	5.00	1029.50	2.21
11	5.50	1043.80	1.37
12	6.00	1054.80	1.04
13	6.50	1063.00	0.77
14	7.00	1070.00	0.65
15	7.50	1075.60	0.52
16	8.00	1080.40	0.44
17	8.50	1084.40	0.37
18	9.00	1088.20	0.35
19	9.50	1091.30	0.28
20	10.00	1094.10	0.26
21	10.50	1096.60	0.23
22	11.00	1098.90	0.21

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS:
(1098.9 - 3.741162)(1)/(1) = +1.0952E+03 g/L Carbon
(1098.9 - 3.741162)(1)/(1)(12) = +9.1263E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

SAMPLE SIZE 0.0696 g 15735.63 ug/g
1053 LAD 1-21-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: 92 DUP Date: 11/20/94 Time: 23:29:52

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.9 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.60	0.00
2	1.01	223.70	98.39
3	1.51	577.40	61.26
4	2.00	804.60	28.24
5	2.50	897.50	10.35
6	3.00	940.60	4.58
7	3.50	960.70	2.09
8	4.00	970.60	1.02
9	4.50	976.50	0.60
10	5.00	980.60	0.42
11	5.50	983.80	0.33
12	6.00	986.40	0.26
13	6.50	988.40	0.20
14	7.00	990.30	0.19
15	7.50	992.30	0.20
16	8.00	993.70	0.14
17	8.50	995.00	0.13
18	9.00	996.20	0.12
19	9.50	997.40	0.12
20	10.00	998.40	0.10
21	10.50	999.30	0.09
22	11.00	1000.20	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(1000.2 - 20.89768)(1)/(1) = +9.7930E+02 g/L Carbon
(1000.2 - 20.89768)(1)/(1)(12) = +8.1609E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

SAMPLE SIZE 0.0696g 14.07 0.4048/g

LAD 1-21-95

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

LAD 1-21-95

Sample: STD Date: 11/21/94 Time: 00:02:06

Sample Size = ~~1 uL~~ 1000
Dil Factor = 1
Blank ID # =
Blank Value = .34 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	13.10	92.37
3	1.51	141.70	90.76
4	2.00	321.40	55.91
5	2.50	451.40	28.80
6	3.00	525.10	14.04
7	3.51	565.40	7.13
8	4.01	583.00	3.02
9	4.50	589.40	1.09
10	5.00	591.90	0.42
11	5.50	593.50	0.27
12	6.00	594.70	0.20
13	6.50	595.60	0.15
14	7.00	596.40	0.13
15	7.50	597.00	0.10
16	8.00	597.70	0.12
17	8.50	598.30	0.10
18	9.00	598.80	0.08
19	%-1430.50	599.30	0.08
20	%-1430.00	599.80	0.08
21	%-1429.50	600.30	0.08
22	%-1429.00	600.70	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 3.739626 micrograms carbon
BLANK FACTOR = 3.739626 / 10.9989 = +3.4E-01 ug/min Carbon

SAMPLE RESULTS: (600.7 - 3.7)(1)/1000
~~(600.7 - 485.86)(1)/(1)~~ KR 11-20-94 =
~~(600.7 - 485.86)(1)/(1)(12)~~ =

5.97E-1 g/L CARBON
KR 11-20-94 ~~+1.087E+03~~ g/L Carbon
~~+9.055E+01~~ Molar Carbon

Sample Run By: KR MONTEITH 00000

STD - 15N 12C
LAD 1-21-95

1055

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-074, REV. 0

Sample: STD Date: 11/21/94 Time: 00:14:19

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.9 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	79.80	99.75
3	1.50	465.50	82.86
4	2.00	721.80	35.51
5	2.50	800.20	9.80
6	3.00	833.80	4.03
7	3.50	845.40	1.37
8	4.00	850.00	0.54
9	4.50	852.60	0.30
10	5.00	854.40	0.21
11	5.50	855.80	0.16
12	6.00	856.90	0.13
13	6.50	858.00	0.13
14	7.00	858.90	0.10
15	7.50	859.60	0.08
16	8.00	860.40	0.09
17	8.50	861.00	0.07
18	9.00	861.60	0.07
19	9.50	862.20	0.07
20	10.00	862.70	0.06
21	10.50	863.30	0.07
22	11.00	863.70	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 20.89791 micrograms carbon
BLANK FACTOR = 20.89791 / 10.9989 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(863.7 - 20.90127)(1)/(300) = +2.809E+00 g/L Carbon
(863.7 - 20.90127)(1)/(300)(12) = +2.341E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

1056 STD 10N12F
LAD 1-2-95

RADIOCHEMICAL ANALYSES

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TRITIUM ANALYSES

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LABCORE Data Entry Template for Worklist# 458

Analyst: SMF **Instrument:** LSC00 5801 **Method:** LA-218-114/A-3

Worklist Comment: 1 ml sample size / jls WHC-SD-WM-DP-074, REV. 0

	Seg	Type	Sample#	Rep	Al	Test		Matrix	Actual	Found	DL	Unit
1	1	BLNK-PREP				@H3-01	H3-01	SOLID			N/A	uCi/g
	1	BLNK-PREP				@H3-01	H3-01E	SOLID			N/A	% Ct.
2	2	STD	82B52			@H3-01	H3-01	SOLID			N/A	uCi/g
	2	STD				@H3-01	H3-01E	SOLID			N/A	% Ct.
3	3	SAMPLE	S94T000267	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
	3	SAMPLE	S94T000267	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
4	4	DUP	S94T000267	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
	4	DUP	S94T000267	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
5	5	SPK	S94T000267	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
6	6	SAMPLE	S94T000279	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
	6	SAMPLE	S94T000279	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
	7	DUP	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
	7	DUP	S94T000279	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
8	8	SPK	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
9	9	SAMPLE	S94T000280	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
	9	SAMPLE	S94T000280	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
10	10	DUP	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
	10	DUP	S94T000280	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
11	11	SPK	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
	12	SAMPLE	S94T000281	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g

Data Entry Comments: Spikes: 2.0 ml sample + 2.0 ml std. #82B52
all sam, dup, & spk at 1.0 ml sample size.
S94T000279 Rerun due to high spike 12
S94T000280/81 Rerun due to low spike 6-7-95

Units shown for QC (SPK) may not reflect the actual units.

Page: 1

LABCORE Data Entry Template for Worklist# 458

Analyst: SMF **Instrument:** LSC00 _____ **Method:** LA-218-114/A-3

Worklist Comment: 1 ml sample size / jls WHC-SD-WM-DP-074, REV. 0

Seg Type	Sample#	Rep Al	Test		Matrix	Actual	Found	DL	Unit
12 SAMPLE	S94T000281	0 W	@H3-01	H3-01E	SOLID	N/A			% Ct.

Final page for worklist # 458

Susie M. Fulton
Analyst Signature

1-26-95
Date
1-30-95

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 458

Analyst: _____ **Instrument:** LSC00 5801 **Method:** LA-218-114

Worklist Comment: 1 ml sample size / jls WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test		Matrix	Actual	Found	DL	Unit
1	BLNK-PREP				@H3-01	H3-01	SOLID			N/A	uCi/g
1	BLNK-PREP				@H3-01	H3-01E	SOLID			N/A	% Ct.
2	STD				@H3-01	H3-01	SOLID			N/A	uCi/g
2	STD				@H3-01	H3-01E	SOLID			N/A	% Ct.
3	SAMPLE	S94T000267	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
3	SAMPLE	S94T000267	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
4	DUP	S94T000267	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
4	DUP	S94T000267	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
5	SPK	S94T000267	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
6	SAMPLE	S94T000279	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
6	SAMPLE	S94T000279	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
7	DUP	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
7	DUP	S94T000279	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
8	SPK	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
9	SAMPLE	S94T000280	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
9	SAMPLE	S94T000280	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
10	DUP	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
10	DUP	S94T000280	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
11	SPK	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
12	SAMPLE	S94T000281	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 458

Analyst: _____ **Instrument:** LSC00 _____ **Method:** LA-218-114

Worklist Comment: 1 ml sample size / jls

WHC-SD-WM-DP-074, REV. 0

	Seg	Type	Sample#	Rep	Al	Test		Matrix	Actual	Found	DL	Unit
	12	SAMPLE	S94T000281	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
13	13	DUP	S94T000281	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
	13	DUP	S94T000281	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
14	14	SPK	S94T000281	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g

Final page for worklist # 458

Analyst Signature M S Bielman

Date 1-30-95

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

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H3 : LA-218-111 (E-1), 113 (B-0), 114 (A-3) TRITIUM LIQUIDS

			STANDARD
Type	Disintegrations per Minute from Counter	(dpm)	860
STANDARD	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3994
LIQUID	Detection Limit	(Ld)	9.90
Sample #	Critical Level	(Lc)	1.95
WORKLIST$458	Tritium Concentration in µCi/L =		3.8739E-01
Instrument Code			
WB27818			
Analyst			
SMF			
Date			
01/26/95			
Time			
07:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))
H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 3.87E-01

RESULT Tritium Concentration in µCi/mL = 3.87E-04

Data Entry by: Date: 01/31/95
Approved by: Date: 2/1/95
Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			BLANK
Type	Disintegrations per minute from Counter	(dpm)	0
BLANK	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.442
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4051
SOLID	Detection Limit	(Ld)	9.76
Sample #	Critical Level	(Lc)	1.95
S94T267	Tritium Concentration in µCi/g =		4.2097E-04
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
SMF	H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))		
Date			
01/26/95	NOTE: Reported result is a LESS THAN value calculated		
Time	from the statistical Detection Limit (Ld).		
07:30 AM			

RESULT Tritium Concentration in µCi/g = < 4.21E-04

Data Entry by: [signature] Date: 02/01/95

Approved by: [signature] Date: 2/2/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.442
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4107
SOLID	Detection Limit	(Ld)	9.63
Sample #	Critical Level	(Lc)	1.95
S94T267	Tritium Concentration in µCi/g =		4.1523E-04
Instrument Code			
WB27818			
Analyst			
SMF			
Date			
01/26/95			
Time			
07:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.15E-04

Data Entry by:		Date:	02/01/95
Approved by:		Date:	2/2/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.442
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4051
SOLID	Detection Limit	(Ld)	9.76
Sample #	Critical Level	(Lc)	1.95
S94T267	Tritium Concentration in µCi/g =		4.2097E-04
Instrument Code			
WB27818			
Analyst			
SMF			
Date			
01/26/95			
Time			
07:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.21E-04

Data Entry by: [signature] Date: 01/31/95

Approved by: [signature] Date: 2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	0
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	413
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
458	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	35
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.3994
S94T267	Detection Limit	(Ld)	9.90
Instrument Code	Critical Level	(Lc)	1.95
WB27818	H3 µCi/L in Sample Vial	(Rsam)	0.00E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.86E-01
SMF	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
01/26/95			
Time			
07:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

NOTE: The sample dpm was LESS THAN the detection limit (Ld), therefor zero (0) was used for Rsam (sample value) in the calculation.

RESULT Spike Recovery = 88.8%

Data Entry by: [signature] Date: 01/31/95
Approved by: [signature] Date: 2/1/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.328
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4107
SOLID	Detection Limit	(Ld)	9.63
Sample #	Critical Level	(Lc)	1.95
S94T279	Tritium Concentration in µCi/g =		4.1982E-04
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
SMF	H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))		
Date			
01/26/95	NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).		
Time			
07:30 AM			

RESULT Tritium Concentration in µCi/g = < 4.20E-04

Data Entry by: [signature] Date: 01/31/95

Approved by: [signature] Date: 2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.296
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4079
SOLID	Detection Limit	(Ld)	9.69
Sample #	Critical Level	(Lc)	1.95
S94T279	Tritium Concentration in µCi/g =		4.2401E-04
Instrument Code			
WB27818			
Analyst			
SMF			
Date			
01/26/95			
Time			
07:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.24E-04

Data Entry by: [signature] Date: 01/31/95

Approved by: [signature] Date: 2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	0
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	656
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
458	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	35
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4022
S94T279	Detection Limit	(Ld)	9.83
Instrument Code	Critical Level	(Lc)	1.95
WB27818	H3 µCi/L in Sample Vial	(Rsam)	0.00E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.95E-01
SMF	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
01/26/95			
Time			
07:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

NOTE: The sample dpm was LESS THAN the detection limit (Ld), therefor zero (0) was used for Rsam (sample value) in the calculation.

RESULT Spike Recovery = 141.0%

Data Entry by: [signature] Date: 01/31/95
Approved by: [signature] Date: 2/1/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	271
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.226
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4107
SOLID	Detection Limit	(Ld)	9.63
Sample #	Critical Level	(Lc)	1.95
S94T280	Tritium Concentration in µCi/g =		1.1937E-02
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
SMF	H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))		
Date			
01/26/95			
Time			
07:30 AM			

RESULT Tritium Concentration in µCi/g = 1.19E-02

Data Entry by:		Date:	01/31/95
Approved by:		Date:	2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.228
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4079
SOLID	Detection Limit	(Ld)	9.69
Sample #	Critical Level	(Lc)	1.95
S94T280	Tritium Concentration in µCi/g =		4.2683E-04
Instrument Code			
WB27818			
Analyst			
SMF			
Date			
01/26/95			
Time			
07:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.27E-04

Data Entry by:		Date:	01/31/95
Approved by:		Date:	2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	271
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	486
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
458	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	35
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4022
S94T280	Detection Limit	(Ld)	9.83
Instrument Code	Critical Level	(Lc)	1.95
WB27818	H3 µCi/L in Sample Vial	(Rsam)	1.22E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.19E-01
SMF	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
01/26/95			
Time			
07:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 75.4%

Data Entry by: MAB Date: 01/31/95
Approved by: [signature] Date: 2/1/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	10797
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.516
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3994
SOLID	Detection Limit	(Ld)	9.90
Sample #	Critical Level	(Lc)	1.95
S94T281	Tritium Concentration in µCi/g =		4.6249E-01
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
SMF	H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))		
Date			
01/26/95			
Time			
07:30 AM			

RESULT Tritium Concentration in µCi/g = 4.62E-01

Data Entry by:	[signature]	Date:	01/31/95
Approved by:	[signature]	Date:	2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

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H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	0
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
458	Digest Grams of Solids / Liter	(D g/L)	10.396
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	35
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4079
SOLID	Detection Limit	(Ld)	9.69
Sample #	Critical Level	(Lc)	1.95
S94T281	Tritium Concentration in µCi/g =		4.1993E-04
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
SMF	H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))		
Date			
01/26/95	NOTE: Reported result is a LESS THAN value calculated		
Time	from the statistical Detection Limit (Ld).		
07:30 AM			

RESULT Tritium Concentration in µCi/g = < 4.20E-04

Data Entry by: [signature] Date: 01/31/95

Approved by: [signature] Date: 2/1/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	10797
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	350
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
458	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	35
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4051
S94T281	Detection Limit	(Ld)	9.76
Instrument Code	Critical Level	(Lc)	1.95
WB27818	H3 µCi/L in Sample Vial	(Rsam)	4.86E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.58E-01
SMF	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
01/26/95			
Time			
07:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = -1085.5%

Data Entry by: [signature] Date: 01/31/95
Approved by: [signature] Date: 2/1/95

Form 218114X3 Rev. 1.2

USER: 1 ID:H-3. TRITIUM PRESET TIME: 50.00 THU 26 JAN 1995 19:17
SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
H#: 1 AQC:Y QCF:N RCM:Y 2 PHASE MONITOR:N
RCM-TIME: 0.10 INT:999.95
CHANNEL 1-LL: 0 UL: 400 2SIGMA: 0.10 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR:

SINGLE LABEL DPM SET UP ON 3 NOV 1994 13:57

UNKNOWN ID:H-3. LS 5801 UNKNOWN REPLICATES: 1
UNKNOWN NORM FACTOR ISO1:0 1.00000
UNKNOWN UNITS ISO1:DPM
UNKNOWN HALF LIFE CORRECTION:N
INDIVIDUAL UNKNOWN NORM FACTORS:N BACKGROUND QUENCH CURVES:Y
STANDARD ID:#001135. LS5801 QUENCH LIMITS LOW:0.000 HIGH:304.0
HALF LIFE(DAYS) ISO1: 4503.410
STANDARD DPM ISO1: 531082.0

WHC-SD-WM-DP-074, REV. 0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%
B1	**- 1	1	34.84	4.79	50.00	51.67	92.0	2.05

BACKGROUND QUENCH CURVES: CONSTANT

BEST AVAILABLE COPY

CHANNEL 1
QUENCH CURVE COEFFICIENTS
A: 34.84000 B:0.00000000 C:0.00000000 D:0.00000000000

BACKGROUND QUENCH CURVE CORRELATION TABLE

BKG	H#	MEASURED CPM.	CALCULATED CPM.	PERCENT DIFF.	FLAG
1	92.0	34.84	34.84	0.00	

BACKGROUND QUENCH LIMITS LOW:0.000 HIGH:1000.
TOTAL QUENCH LIMITS LOW:0.000 HIGH:304.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%	ERR
1	**- 3	1	20.62	6.23	50.00	103.63	95.0	14.75	
	ISO1 %EFF CH1:40.51						ISO1 DPM :0.000000		
2	**- 4	1	378.26	1.45	50.00	155.63	97.0	1.59	
	ISO1 %EFF CH1:39.94						ISO1 DPM :859.9230		
3	**- 5	1	26.54	5.49	50.00	207.46	93.0	2.80	
	ISO1 %EFF CH1:41.07						ISO1 DPM :0.000000		
4	**- 6	1	22.78	5.93	50.00	259.32	95.0	2.22	
	ISO1 %EFF CH1:40.51						ISO1 DPM :0.000000		

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%	ERR
5	**- 7	1	199.60	2.00	50.00	311.25	97.0	0.83	
	ISO1 %EFF CH1:39.94						ISO1 DPM	:412.5652	
6	**- 8	1	23.62	5.82	50.00	363.06	93.0	0.67	
	ISO1 %EFF CH1:41.07						ISO1 DPM	:0.000000	
7	**- 9	1	24.06	5.77	50.00	414.93	94.0	1.14	
	ISO1 %EFF CH1:40.79						ISO1 DPM	:0.000000	
8	**-10	1	298.62	1.64	50.00	466.81	96.0	0.12	
	ISO1 %EFF CH1:40.22						ISO1 DPM	:655.8344	
9	**-11	1	146.12	2.34	50.00	518.64	93.0	0.07	
	ISO1 %EFF CH1:41.07						ISO1 DPM	:270.9408	
10	**-12	1	27.02	5.44	50.00	570.49	94.0	2.30	
	ISO1 %EFF CH1:40.79						ISO1 DPM	:0.000000	
11	**- 1	1	230.26	1.86	50.00	622.42	96.0	0.51	
	ISO1 %EFF CH1:40.22						ISO1 DPM	:485.8816	
12	**- 2	1	4346.56	0.43	50.00	675.24	97.0	0.00	
	ISO1 %EFF CH1:39.94						ISO1 DPM	:10797.17	
13	**- 3	1	32.00	5.00	50.00	727.07	94.0	0.36	
	ISO1 %EFF CH1:40.79						ISO1 DPM	:0.000000	
14	**- 4	1	176.60	2.13	50.00	778.85	95.0	0.65	
	ISO1 %EFF CH1:40.51						ISO1 DPM	:349.9908	

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Sy 103

LABCORE Data Entry Template for Worklist# 523

Analyst: SLHB **Instrument:** LSC00 #2 6000 **Method:** LA-218-114 /A-3

Worklist Comment: 1 mL sample size / jls WHC-SD-WM-DP-074, REV. 0

Seg	Type	Sample#	Rep	Al	Test		Matrix	Actual	Found	DL	Unit
1	BLNK-PREP				@H3-01	H3-01	SOLID			N/A	uCi/g
1	BLNK-PREP				@H3-01	H3-01E	SOLID			N/A	% Ct.
2	STD	82B52			@H3-01	H3-01	SOLID			N/A	uCi/g
2	STD				@H3-01	H3-01E	SOLID			N/A	% Ct.
3	SAMPLE	S94T000279	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
3	SAMPLE	S94T000279	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
4	DUP	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
4	DUP	S94T000279	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
5	SPK	S94T000279	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
6	SAMPLE	S94T000280	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
6	SAMPLE	S94T000280	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
7	DUP	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
7	DUP	S94T000280	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
8	SPK	S94T000280	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
9	SAMPLE	S94T000281	0	W	@H3-01	H3-01	SOLID	N/A			uCi/g
9	SAMPLE	S94T000281	0	W	@H3-01	H3-01E	SOLID	N/A			% Ct.
10	DUP	S94T000281	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g
10	DUP	S94T000281	0	W	@H3-01	H3-01E	SOLID			N/A	% Ct.
11	SPK	S94T000281	0	W	@H3-01	H3-01	SOLID			N/A	uCi/g

Data Entry Comments: this is rerun data as Sample S94T0281 + dup were empty (no sample left) 3-13-95

Spike: 2ml 82B52 STD + 2ml sample → 1ml tovial

Units shown for QC (SPK) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 523

Analyst: SLHB **Instrument:** LSC00 #2 **Method:** LA-218-114

Worklist Comment: 1 mL sample size / jls WHC-SD-WM-DP-074, REV. 0

Seg Type	Sample#	Rep Al	Test	Matrix	Actual	Found	DL	Unit

Final page for worklist # 523

Sandra L Hood Boatright
Analyst Signature

2-4-95
Date
2-6-95

Data Entry Comments:

Units shown for QC (SPK) may not reflect the actual units.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			BLANK
Disintegrations per minute from Counter	(dpm)	2.47
Sample Volume in mL	(SS)	1
Dilution Factor	(DF)	1
Digest Grams of Solids / Liter	(D g/L)	10.328
Background Count Rate in Counts per Minute	(BKG cpm)	54
Background Count Time in Minutes	(BKG Time)	50
Instrument Fractional Efficiency	(EFF)	0.4587
Detection Limit	(Ld)	10.68
Critical Level	(Lc)	2.42
Tritium Concentration in µCi/g =		4.6564E-04

Type	BLANK
Work List	523
Test Code	@H3-01
Matrix	SOLID
Sample #	S94T279
Instrument Code	WC16085
Analyst	SLH
Date	02/04/95
Time	11:00 PM

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.66E-04

Data Entry by: [signature] Date: 02/06/95

Approved by: [signature] Date: 2/6/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-111 (E-1), 113 (B-0), 114 (A-3) TRITIUM LIQUIDS

			STANDARD
Disintegrations per Minute from Counter	(dpm)	872.6
Sample Volume in mL	(SS)	1
Dilution Factor	(DF)	1
Digest Dilution Factor	(DDF)	1
Background Count Rate in Counts per Minute	(BKG cpm)	54
Background Count Time in Minutes	(BKG Time)	50
Instrument Fractional Efficiency	(EFF)	0.451
Detection Limit	(Ld)	10.86
Critical Level	(Lc)	2.42
Tritium Concentration in µCi/L =		3.9306E-01

Type	STANDARD
Work List	523
Test Code	#H3-01
Matrix	LIQUID
Sample #	WORKLIST#523
Instrument Code	WC16085
Analyst	SLH
Date	02/04/95
Time	11:00 PM

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 3.93E-01

RESULT Tritium Concentration in µCi/mL = 3.93E-04

Data Entry by: [signature] Date: 02/06/95

Approved by: [signature] Date: 2/6/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	2.74
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
523	Digest Grams of Solids / Liter	(D g/L)	10.328
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	55
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4554
SOLID	Detection Limit	(Ld)	10.85
Sample #	Critical Level	(Lc)	2.44
S94T279	Tritium Concentration in µCi/g =		4.7329E-04
Instrument Code			
WC16085			
Analyst			
SLH			
Date			
02/04/95			
Time			
11:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.73E-04

Data Entry by: [signature] Date: 02/06/95
Approved by: [signature] Date: 2/6/95
Form 218114S2 Rev. 1.2 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

Type			SAMPLE
DUPLICATE	Disintegrations per minute from Counter	(dpm)	2
Work List	Sample Volume in mL	(SS)	1
523	Dilution Factor	(DF)	1
Test Code	Digest Grams of Solids / Liter	(D g/L)	10.296
@H3-01	Background Count Rate in Counts per Minute	(BKG cpm)	55
Matrix	Background Count Time in Minutes	(BKG Time)	50
SOLID	Instrument Fractional Efficiency	(EFF)	0.4585
Sample #	Detection Limit	(Ld)	10.78
S94T279	Critical Level	(Lc)	2.44
Instrument Code	Tritium Concentration in µCi/g =		4.7155E-04
WC16085			
Analyst			
SLH			
Date			
02/04/95			
Time			
11:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.72E-04

Data Entry by: [signature] Date: 02/06/95

Approved by: [signature] Date: 2/6/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	2.74
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	405.51
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
523	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	55
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4607
S94TZ79	Detection Limit	(Ld)	10.73
Instrument Code	Critical Level	(Lc)	2.44
WC16085	H3 µCi/L in Sample Vial	(Rsam)	0.00E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.83E-01
SLH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
02/04/95			
Time			
11:00 PM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

NOTE: The sample dpm was LESS THAN the detection limit (Ld), therefor zero (0) was used for Rsam (sample value) in the calculation.

RESULT Spike Recovery = 87.2%

Data Entry by: [signature] Date: 02/06/95
Approved by: [signature] Date: 2/6/95

Form 218114X3 Rev. 1.2 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	7.87
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
523	Digest Grams of Solids / Liter	(D g/L)	10.226
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	54
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.46
SOLID	Detection Limit	(Ld)	10.65
Sample #	Critical Level	(Lc)	2.42
S94T280	Tritium Concentration in µCi/g =		4.6896E-04
Instrument Code			
WC16085			
Analyst			
SLH			
Date			
02/04/95			
Time			
11:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.69E-04

Data Entry by: [signature] Date: 02/06/95

Approved by: [signature] Date: 2/6/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SOLIDS

			SAMPLE
Type	Disintegrations per minute from Counter	(dpm)	6.24
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
523	Digest Grams of Solids / Liter	(D g/L)	10.228
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	54
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4552
SOLID	Detection Limit	(Ld)	10.76
Sample #	Critical Level	(Lc)	2.42
S94T280	Tritium Concentration in µCi/g =		4.7381E-04
Instrument Code			
WC16085			
Analyst			
SLH			
Date			
02/04/95			
Time			
11:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/g = (dpm * (1000mL/L) * DF) / (SS * (D g/L) * (2220000dpm/µCi))

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/g = < 4.74E-04

Data Entry by:		Date:	02/06/95
Approved by:		Date:	2/6/95

Form 218114S2 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-074, REV. 0

H3 : LA-218-113 (B-0), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	7.87
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	441.69
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	2
523	Volume of Spike in Distillation Vial in mL	(SPK vol)	2
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.419
Matrix	Background Count Rate in cpm	(BKG cpm)	54
SOLID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4558
S94T280	Detection Limit	(Ld)	10.74
Instrument Code	Critical Level	(Lc)	2.42
WC16085	H3 µCi/L in Sample Vial	(Rsam)	0.00E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.99E-01
SLH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
02/04/95			
Time			
11:00 PM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

NOTE: The sample dpm was LESS THAN the detection limit (Ld), therefor zero (0) was used for Rsam (sample value) in the calculation.

RESULT Spike Recovery = 95.0%

Data Entry by: [signature] Date: 02/06/95
Approved by: [signature] Date: 2/6/95

Form 218114X3 Rev. 1.2

D. H. Wilcox
2-5-95

ID:H-3 TRITIUM

5 FEB 1995 04:13

USER: 1 COMMENT:LS 6000

PRESET TIME : 50.00

DATA CALC :	SL DPM	H#	:YES	SAMPLE REPEATS:	1	PRINTER	: STD
COUNT BLANK :	YES	IC#	: NO	REPLICATES :	1	RS232	:EDIT
TWO PHASE :	YES	AQC	: NO	CYCLE REPEATS :	1		
SCINTILLATOR:	LIQUID	LUMEX	:YES	LOW SAMPLE REJ:	0		
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:				none	

ISOTOPE 1: 3H %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: On

Quench Limits Low:-4.300 High:294.50

SAM NO	POS	TIME MIN	H#	3H CPM	3H %ERROR	3H DPM	3H EFF-1	LUMEX %	ELAPSED 2P TIME
B1	**-1	50.00	89.7	24.74	5.69	54.09	45.74	0.03	51.46
		Blank Average		DPM for		3H :	54.09	COEF. OF VAR:	0.000
std 1	**-3	50.00	92.2	417.94	1.38	872.60	45.10	0.02	103.28
blnk 2	**-4	50.00	89.2	25.94	5.55	2.47	45.87	0.05	155.01
~~3~~	~~**-5~~	~~50.00~~	~~88.3~~	~~212.82~~	~~1.94~~	~~407.65~~	~~46.09~~	~~0.02~~	~~206.77~~
~~4~~	~~**-6~~	~~50.00~~	~~89.5~~	~~26.14~~	~~5.53~~	~~3.01~~	~~45.78~~	~~0.03~~	~~258.50~~
~~5~~	~~**-7~~	~~50.00~~	~~89.3~~	~~26.48~~	~~5.50~~	~~3.67~~	~~45.85~~	~~0.03~~	~~310.23~~
280 6	**-8	50.00	88.6	28.50	5.30	7.87	46.00	0.02	361.97
280D 7	**-9	50.00	90.6	27.46	5.40	6.24	45.52	0.02	413.69
-0-5 8	**-10	50.00	90.3	225.96	1.88	441.69	45.58	0.02	465.45

out of sequence
MB 2/6/95

WHC-SD-WM-DP-074, REV. 0

ID: H-3 TRITIUM 6 FEB 1995 08:33

USER: 1 COMMENT:LS 6000

PRESET TIME :	50.00						
DATA CALC :	SL DPM	H#	:YES	SAMPLE REPEATS:	1	PRINTER	: STD
COUNT BLANK :	YES	IC#	: NO	REPLICATES :	1	RS232	:EDIT
TWO PHASE :	YES	AQC	: NO	CYCLE REPEATS :	1		
SCINTILLATOR:	LIQUID	LUMEX	:YES	LOW SAMPLE REJ:	0		
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:				none	

ISOTOPE 1: 3H %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: On

Quench Limits Low:-4.300 High:294.50

SAM NO	POS	TIME MIN	H#	3H CPM	3H %ERROR	3H DPM	3H EFF-1	LUMEX %	ELAPSED TIME	2P
B1	**-1	50.00	89.6	25.20	5.82	**55.06**	45.77	2.48	53.03	
		Blank Average		DPM for		3H :	55.06	COEF. OF VAR:		0.000
1	**-3	50.00	90.5	26.32	5.60	**2.74**	45.54	1.11	105.06	
2	**-4	50.00	89.3	26.16	5.57	**2.00**	45.85	0.58	156.98	
3	**-5	50.00	88.4	212.16	1.94	**405.51**	46.07	0.14	208.87	

5947229

WHC-SD-WM-DP-074, REV. 0

3-13-96

LABCORE Data Entry Template for Worklist# 826

Analyst: BJ **Instrument:** LSC00 5801 **Book #** 102B52

Method: LA-218-114 Rev/Mod A-3

Worklist Comment: Run as usual / jls

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@H3-01	H3-01	LIQUID			N/A	uCi/mL
		1	STD				@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
		2	BLNK-PREP				@H3-01	H3-01	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	3	SAMPLE	S95T000328	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	3	SAMPLE	S95T000328	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	4	DUP	S95T000328	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	4	DUP	S95T000328	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	5	SPK	S95T000328	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	7	DUP	S95T000329	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	7	DUP	S95T000329	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	8	SPK	S95T000329	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	10	DUP	S95T000330	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	10	DUP	S95T000330	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error

Data Entry Comments: Will be Rerun due to spikes
This data not used in the final report. For
comparison to final results, samples results must be multiplied
by DF of 20.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 826

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
94000020	SY-103	11	SPK	S95T000330	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0	@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0	@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	13	DUP	S95T000331	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	13	DUP	S95T000331	0	@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	14	SPK	S95T000331	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL

Final page for worklist # 826

Brenda Severson 3·30·95
Analyst Signature Date

[signature] 4/5/95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			STANDARD
Type	Disintegrations per Minute from Counter	(dpm)	968.5721
STANDARD	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3965
LIQUID	Detection Limit	(Ld)	7.52
Sample #	Critical Level	(Lc)	1.46
WORKLIST 826	Tritium Concentration in µCi/L =		4.3629E-01
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	4.36E-01
RESULT	Tritium Concentration in µCi/mL =	4.36E-04

Data Entry by:	C.J. Owen	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			BLANK
Type	Disintegrations per Minute from Counter	(dpm)	8.9423
BLANK	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3936
LIQUID	Detection Limit	(Ld)	7.58
Sample #	Critical Level	(Lc)	1.46
WORKLIST 826	Tritium Concentration in µCi/L =		4.0281E-03
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
B SEVERSON	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
03/30/95			
Time			
05:15 AM			

RESULT Tritium Concentration in µCi/L = 4.03E-03

RESULT Tritium Concentration in µCi/mL = 4.03E-06

Data Entry by:	C.J. Opeman	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Disintegrations per Minute from Counter		(dpm)	1944.529
Sample Volume in mL		(SS)	1
Dilution Factor		(DF)	1
Digest Dilution Factor		(DDF)	1
Background Count Rate in Counts per Minute		(BKG cpm)	19.74
Background Count Time in Minutes		(BKG Time)	50
Instrument Fractional Efficiency		(EFF)	0.3965
Detection Limit		(Ld)	7.52
Critical Level		(Lc)	1.46
Tritium Concentration in µCi/L =			8.7591E-01

Type	SAMPLE
Work List	826
Test Code	@H3-01
Matrix	LIQUID
Sample #	S95T328
Instrument Code	WB27818
Analyst	B SEVERSON
Date	03/30/95
Time	05:15 AM

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	8.76E-01
RESULT	Tritium Concentration in µCi/mL =	8.76E-04

Data Entry by:	C.J. Owens	Date:	03/31/95
Approved by:	[illegible]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	2295.979
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3879
LIQUID	Detection Limit	(Ld)	7.69
Sample #	Critical Level	(Lc)	1.46
S95T328	Tritium Concentration in µCi/L =		1.0342E+00
Instrument Code			
WB27818	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
B SEVERSON	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
03/30/95			
Time			
05:15 AM			

RESULT Tritium Concentration in µCi/L = 1.03E+00

RESULT Tritium Concentration in µCi/mL = 1.03E-03

Data Entry by:	[signature]	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	1944.529
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	4921.3
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
826	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	19.74
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.3965
S95T328	Detection Limit	(Ld)	7.52
Instrument Code	Critical Level	(Lc)	1.46
WB27818	H3 µCi/L in Sample Vial	(Rsam)	8.76E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.22E+00
B SEVERSON	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
03/30/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
05:15 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 715.8%

Data Entry by:	C. J. Cairen	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	2891.787
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3936
LIQUID	Detection Limit	(Ld)	7.58
Sample #	Critical Level	(Lc)	1.46
S95T329	Tritium Concentration in µCi/L =		1.3026E+00
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.30E+00

RESULT Tritium Concentration in µCi/mL = 1.30E-03

Data Entry by:	[signature]	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	340.224
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3936
LIQUID	Detection Limit	(Ld)	7.58
Sample #	Critical Level	(Lc)	1.46
S95T329	Tritium Concentration in µCi/L =		1.5325E-01
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))
H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.53E-01

RESULT Tritium Concentration in µCi/mL = 1.53E-04

Data Entry by:	C.J. Opinen	Date:	03/31/95
Approved by:	[illegible]	Date:	4/3/95

Form 218114L1 Rev. 1.2 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	2891.787
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	3836.026
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
826	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	19.74
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.3936
S95T329	Detection Limit	(Ld)	7.58
Instrument Code	Critical Level	(Lc)	1.46
WB27818	H3 µCi/L in Sample Vial	(Rsam)	1.30E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.73E+00
B SEVERSON	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
03/30/95			
Time			
05:15 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 433.3%

Data Entry by:	[signature]	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	13.40193
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.385
LIQUID	Detection Limit	(Ld)	7.75
Sample #	Critical Level	(Lc)	1.46
S95T330	Tritium Concentration in µCi/L =		6.0369E-03
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	6.04E-03
RESULT	Tritium Concentration in µCi/mL =	6.04E-06

Data Entry by:		Date:	03/31/95
Approved by:		Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	873.5553
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3765
LIQUID	Detection Limit	(Ld)	7.92
Sample #	Critical Level	(Lc)	1.46
S95T330	Tritium Concentration in µCi/L =		3.9349E-01
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))
H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 3.93E-01

RESULT Tritium Concentration in µCi/mL = 3.93E-04

Data Entry by:	C. J. Owen	Date:	03/31/95
Approved by:	B Severson	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	13.40193
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	739.2041
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
826	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	19.74
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.3850
S95T330	Detection Limit	(Ld)	7.75
Instrument Code	Critical Level	(Lc)	1.46
WB27818	H3 µCi/L in Sample Vial	(Rsam)	6.04E-03
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	3.33E-01
B SEVERSON	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
03/30/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
05:15 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT | Spike Recovery = 132.8%

Data Entry by:	C.J. Olsen	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	1395.238
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3908
LIQUID	Detection Limit	(Ld)	7.63
Sample #	Critical Level	(Lc)	1.46
S95T331	Tritium Concentration in µCi/L =		6.2849E-01
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 6.28E-01

RESULT Tritium Concentration in µCi/mL = 6.28E-04

Data Entry by:	[signature]	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	1811.37
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
826	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	19.74
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.3708
LIQUID	Detection Limit	(Ld)	8.04
Sample #	Critical Level	(Lc)	1.46
S95T331	Tritium Concentration in µCi/L =		8.1593E-01
Instrument Code			
WB27818			
Analyst			
B SEVERSON			
Date			
03/30/95			
Time			
05:15 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))
H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 8.16E-01

RESULT Tritium Concentration in µCi/mL = 8.16E-04

Data Entry by:	[signature]	Date:	03/31/95
Approved by:	[signature]	Date:	4/3/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	1395.238
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	58.8116
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
826	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	19.74
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.3908
S95T331	Detection Limit	(Ld)	7.63
Instrument Code	Critical Level	(Lc)	1.46
WB27818	H3 µCi/L in Sample Vial	(Rsam)	6.28E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.65E-02
B SEVERSON	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
03/30/95			
Time			
05:15 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = -115.8%

Data Entry by:	C.J. Chinner	Date:	03/31/95
Approved by:	B. Sellers	Date:	4/3/95

Form 218114X3 Rev. 1.2

USER: 1 ID:H-3. TRITIUM PRESET TIME: 50.00 THU 30 MAR 1995 11:08
SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
H#: 1 AQC:Y QCF:N RCM:Y 2 PHASE MONITOR:N
RCM-TIME: 0.10 INT:999.95
CHANNEL 1-LL: 0 UL: 400 2SIGMA: 0.10 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM SET UP ON 3 NOV 1994 13:57

UNKNOWN ID:H-3. LS 5501 UNKNOWN REPLICATES: 1
UNKNOWN NORM FACTOR ISO1:G 1.00000
UNKNOWN UNITS ISO1:DPM
UNKNOWN HALF LIFE CORRECTION:N
INDIVIDUAL UNKNOWN NORM FACTORS:N BACKGROUND QUENCH CURVES:Y
STANDARD ID:#001135. LS5501 QUENCH LIMITS LOW:0.000 HIGH:304.0
HALF LIFE(DAYS) ISO1: 4503.410
STANDARD DPM ISO1: 531082.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%	SRP
B1	**- 1	1	19.74	6.37	50.00	51.67	95.0	1.35	

BACKGROUND QUENCH CURVES: CONSTANT

CHANNEL 1
QUENCH CURVE COEFFICIENTS
A: 19.74000 B:0.00000000 C:0.00000000 D:0.00000000000

BACKGROUND QUENCH CURVE CORRELATION TABLE

BKG	H#	MEASURED CPM.	CALCULATED CPM.	PERCENT DIFF.	FLAG
1	95.0	19.74	19.74	0.00	

BACKGROUND QUENCH LIMITS LOW:0.000 HIGH:1000.
TOTAL QUENCH LIMITS LOW:0.000 HIGH:304.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%	SRP
1	**- 3	1	403.78	1.41	50.00	103.83	95.0	1.84	
	ISO1 %EFF CH1:39.65						ISO1 DPM	:968.5721	
2	**- 4	1	23.26	5.86	50.00	155.67	99.0	2.76	
	ISO1 %EFF CH1:39.36						ISO1 DPM	:8.942332	
3	**- 5	1	790.74	1.01	50.00	207.72	98.0	0.04	
	ISO1 %EFF CH1:39.65						ISO1 DPM	:1944.529	
4	**- 6	1	910.34	0.94	50.00	259.74	101.0	0.01	
	ISO1 %EFF CH1:39.79						ISO1 DPM	:2295.979	

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	RCM%	EPS
5	**- 7	1	1971.00	0.64	50.00	312.04	98.0	0.01	
	ISO1	%EFF	CH1:39.65				ISO1 DPM	:4921.300	
6	**- 8	1	1158.02	0.83	50.00	364.17	99.0	0.01	
	ISO1	%EFF	CH1:39.36				ISO1 DPM	:2891.787	
7	**- 9	1	153.66	2.28	50.00	416.09	99.0	0.22	
	ISO1	%EFF	CH1:39.36				ISO1 DPM	:340.2240	
8	**-10	1	1529.68	0.72	50.00	468.31	99.0	0.03	
	ISO1	%EFF	CH1:39.36				ISO1 DPM	:3836.026	
9	**-11	1	24.90	5.67	50.00	520.26	102.0	4.38	
	ISO1	%EFF	CH1:38.50				ISO1 DPM	:13.40193	
10	**-12	1	348.60	1.51	50.00	572.17	105.0	0.04	
	ISO1	%EFF	CH1:37.65				ISO1 DPM	:873.5553	
11	**- 1	1	310.70	1.60	50.00	624.17	99.0	0.06	
	ISO1	%EFF	CH1:39.36				ISO1 DPM	:739.2041	
12	**- 2	1	564.92	1.19	50.00	676.14	100.0	0.02	
	ISO1	%EFF	CH1:39.08				ISO1 DPM	:1395.238	
13	**- 3	1	691.40	1.08	50.00	728.15	107.0	0.01	
	ISO1	%EFF	CH1:37.08				ISO1 DPM	:1811.370	
14	**- 4	1	42.72	4.33	50.00	780.06	100.0	0.68	
	ISO1	%EFF	CH1:39.08				ISO1 DPM	:58.81160	

LABCORE Data Entry Template for Worklist# 1002

Analyst: KGH **Instrument:** LSC00 WC16085 **Book #** 102B52

Method: LA-218-114 Rev/Mod A-3

Worklist Comment: rerun - run as usual - jls

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@H3-01	H3-01	LIQUID			N/A	uCi/mL
		1	STD				@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
		2	BLNK-PREP				@H3-01	H3-01	LIQUID			N/A	uCi/mL
		2	BLNK-PREP				@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	3	SAMPLE	S95T000328	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	3	SAMPLE	S95T000328	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	4	DUP	S95T000328	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	4	DUP	S95T000328	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	5	SPK	S95T000328	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	7	DUP	S95T000329	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	7	DUP	S95T000329	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	8	SPK	S95T000329	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	10	DUP	S95T000330	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	10	DUP	S95T000330	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error

Data Entry Comments:
Spikes unacceptable - rerun again
These results were not used in final report. For comparison with final results, these results must be multiplied by DF of 20.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1002

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
94000020	SY-103	11 SPK	S95T000330	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	12 SAMPLE	S95T000331	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	12 SAMPLE	S95T000331	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	13 DUP	S95T000331	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	13 DUP	S95T000331	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	14 SPK	S95T000331	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL

Final page for worklist # 1002

Dustin Hughes 4-7-95
Analyst Signature Date

Dustin Hughes 4-7-95
Analyst Signature Date

C.J. Quinn 4-12-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			STANDARD
Disintegrations per Minute from Counter		(dpm)	716.9
Sample Volume in mL		(SS)	1
Dilution Factor		(DF)	1
Digest Dilution Factor		(DDF)	1
Background Count Rate in Counts per Minute		(BKG cpm)	24.52
Background Count Time in Minutes		(BKG Time)	50
Instrument Fractional Efficiency		(EFF)	0.4436
Detection Limit		(Ld)	7.48
Critical Level		(Lc)	1.63
Tritium Concentration in µCi/L =			3.2293E-01

Type	STANDARD
Work List	1002
Test Code	@H3-01
Matrix	LIQUID
Sample #	WORKLIST 1002
Instrument Code	WC16085
Analyst	KGH
Date	04/07/95
Time	07:00 AM

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	3.23E-01
RESULT	Tritium Concentration in µCi/mL =	3.23E-04

Data Entry by:	C. Quinn	Date:	04/10/95
Approved by:	[illegible]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			BLANK
Type	Disintegrations per Minute from Counter	(dpm)	3.5
BLANK	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4254
LIQUID	Detection Limit	(Ld)	7.80
Sample #	Critical Level	(Lc)	1.63
WORKLIST 1002	Tritium Concentration in µCi/L =		3.5131E-03
Instrument Code			
WC16085	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/07/95			
Time	NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).		
07:00 AM			

RESULT Tritium Concentration in µCi/L = < 3.51E-03

RESULT Tritium Concentration in µCi/mL = < 3.51E-06

Data Entry by:	C.J. Oanen	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	401.99
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4371
LIQUID	Detection Limit	(Ld)	7.59
Sample #	Critical Level	(Lc)	1.63
S95T328	Tritium Concentration in µCi/L =		1.8108E-01
Instrument Code			
WC16085	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/07/95			
Time			
07:00 AM			

RESULT Tritium Concentration in µCi/L = 1.81E-01

RESULT Tritium Concentration in µCi/mL = 1.81E-04

Data Entry by:	C.J. Opiner	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	2337.58
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4295
LIQUID	Detection Limit	(Ld)	7.72
Sample #	Critical Level	(Lc)	1.63
S95T328	Tritium Concentration in µCi/L =		1.0530E+00
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.05E+00

RESULT Tritium Concentration in µCi/mL = 1.05E-03

Data Entry by:	C.J. Olsen	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	401.99
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	10605.65
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1002	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	24.52
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4311
S95T328	Detection Limit	(Ld)	7.70
Instrument Code	Critical Level	(Lc)	1.63
WC16085	H3 µCi/L in Sample Vial	(Rsam)	1.81E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	4.78E+00
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/07/95			
Time			
07:00 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 1886.0%

Data Entry by:	C.J. Quinn	Date:	04/10/95
Approved by:	[illegible]	Date:	12 Apr 95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	4739.71
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4364
LIQUID	Detection Limit	(Ld)	7.60
Sample #	Critical Level	(Lc)	1.63
S95T329	Tritium Concentration in µCi/L =		2.1350E+00
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 2.14E+00

RESULT Tritium Concentration in µCi/mL = 2.14E-03

Data Entry by:	C. J. Ogiman	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr. 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	270.65
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4364
LIQUID	Detection Limit	(Ld)	7.60
Sample #	Critical Level	(Lc)	1.63
S95T329	Tritium Concentration in µCi/L =		1.2191E-01
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.22E-01

RESULT Tritium Concentration in µCi/mL = 1.22E-04

Data Entry by:	[signature]	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	4739.71
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	4738.96
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1002	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	24.52
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4353
S95T329	Detection Limit	(Ld)	7.62
Instrument Code	Critical Level	(Lc)	1.63
WC16085	H3 µCi/L in Sample Vial	(Rsam)	2.14E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.13E+00
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/07/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
07:00 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 429.4%

Data Entry by:	[signature]	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	1817.17
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4248
LIQUID	Detection Limit	(Ld)	7.81
Sample #	Critical Level	(Lc)	1.63
S95T330	Tritium Concentration in µCi/L =		8.1855E-01
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	8.19E-01
RESULT	Tritium Concentration in µCi/mL =	8.19E-04

Data Entry by:	[illegible]	Date:	04/10/95
Approved by:	[illegible]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	4984.42
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4286
LIQUID	Detection Limit	(Ld)	7.74
Sample #	Critical Level	(Lc)	1.63
S95T330	Tritium Concentration in µCi/L =		2.2452E+00
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 2.25E+00

RESULT Tritium Concentration in µCi/mL = 2.25E-03

Data Entry by:	[signature]	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	1817.17
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	4337.77
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1002	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	24.52
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4324
S95T330	Detection Limit	(Ld)	7.67
Instrument Code	Critical Level	(Lc)	1.63
WC16085	H3 µCi/L in Sample Vial	(Rsam)	8.19E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.95E+00
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/07/95			
Time			
07:00 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 621.6%

Data Entry by:	C.J. Opinen	Date:	04/10/95
Approved by:	[illegible]	Date:	12 Apr 95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	122.66
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4285
LIQUID	Detection Limit	(Ld)	7.74
Sample #	Critical Level	(Lc)	1.63
S95T331	Tritium Concentration in µCi/L =		5.5252E-02
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 5.53E-02

RESULT Tritium Concentration in µCi/mL = 5.53E-05

Data Entry by:	C.J. Owen	Date:	04/10/95
Approved by:	[illegible]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	834.3
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1002	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	24.52
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4311
LIQUID	Detection Limit	(Ld)	7.70
Sample #	Critical Level	(Lc)	1.63
S95T331	Tritium Concentration in µCi/L =		3.7581E-01
Instrument Code			
WC16085			
Analyst			
KGH			
Date			
04/07/95			
Time			
07:00 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 3.76E-01

RESULT Tritium Concentration in µCi/mL = 3.76E-04

Data Entry by:	C. J. Ojinen	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	122.66
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	2106.41
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1002	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.497
Matrix	Background Count Rate in cpm	(BKG cpm)	24.52
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4359
S95T331	Detection Limit	(Ld)	7.61
Instrument Code	Critical Level	(Lc)	1.63
WC16085	H3 µCi/L in Sample Vial	(Rsam)	5.53E-02
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	9.49E-01
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/07/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
07:00 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 370.7%

Data Entry by:	C.J. Opuen	Date:	04/10/95
Approved by:	[signature]	Date:	12 Apr 95

Form 218114X3 Rev. 1.2

Em Barela

WHC-SD-WM-DP-074, REV. 0

ID:H-3 TRITIUM 7 APR 1995 14:25

USER: 1 COMMENT:LS 6000

PRESET TIME : 50.00

DATA CALC : SL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 :EDIT

TWO PHASE : YES AQC : NO CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX:YES LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: On

Quench Limits Low:-4.300 High:294.50

SAM NO	POS	TIME MIN	H#	3H CPM	3H %ERROR	3H DPM	3H EFF-1	LUMEX %	ELAPSED TIME	2P
B1	**-1	50.00	89.1	24.52	5.71	53.44	45.88	0.05	51.49	
		Blank Average		DPM for		3H :	53.44	COEF. OF	VAR:	0.000
1	**-3	50.00	95.1	341.74	1.54	716.90	44.36	0.64	103.79	
2	**-4	50.00	102.3	24.22	5.78	3.50	42.54	0.52	155.71	2P
3	**-5	50.00	97.7	199.08	2.01	401.99	43.71	0.11	207.90	
4	**-6	50.00	100.7	1027.02	0.88	2337.58	42.95	0.03	260.30	
5	**-7	50.00	100.1	4594.74	0.42	10605.65	43.11	0.00	312.94	
6	**-8	50.00	98.0	2091.62	0.62	4739.71	43.64	0.00	365.31	
7	**-9	50.00	98.0	141.44	2.38	270.65	43.64	0.05	417.28	
8	**-10	50.00	98.4	2085.96	0.62	4738.96	43.53	0.00	469.57	
9	**-11	50.00	102.5	794.58	1.00	1817.17	42.48	0.00	521.58	
10	**-12	50.00	101.0	2159.30	0.61	4984.42	42.86	0.00	573.66	
11	**-1	50.00	99.5	1898.62	0.65	4337.77	43.24	0.00	625.87	
12	**-2	50.00	101.1	75.46	3.27	122.66	42.85	0.12	677.84	
13	**-3	50.00	100.1	382.64	1.45	834.30	43.11	0.00	729.72	
14	**-4	50.00	98.2	941.30	0.92	2106.41	43.59	0.00	781.72	

BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1133

Analyst: 617 **Instrument:** LSC00 6500 A WC 51586 **Book #** 106B52

Method: LA-218-114 Rev/Mod A 3

Worklist Comment: RERUN 2/ 1-10 DILUTION OF SAMPLE /USE DILUTION FOR SPKS/ JLS

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD			@H3-01	H3-01		LIQUID			N/A	uCi/mL
		1	STD			@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
		2	BLNK-PREP			@H3-01	H3-01		LIQUID			N/A	uCi/mL
		2	BLNK-PREP			@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	3	SAMPLE	S95T000328	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	3	SAMPLE	S95T000328	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	4	DUP	S95T000328	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	4	DUP	S95T000328	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	5	SPK	S95T000328	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	7	DUP	S95T000329	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	7	DUP	S95T000329	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	8	SPK	S95T000329	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	10	DUP	S95T000330	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	10	DUP	S95T000330	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error

Data Entry Comments: S95T000328 used

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1133

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
94000020	SY-103	11	SPK	S95T000330	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0		@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0		@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	13	DUP	S95T000331	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	13	DUP	S95T000331	0		@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	14	SPK	S95T000331	0		@H3-01	H3-01	LIQUID			N/A	uCi/mL

Final page for worklist # 1133

Analyst Signature Date 4-15-95

Analyst Signature Date 4-17-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-3) TRITIUM LIQUIDS

			STANDARD
Type	Disintegrations per Minute from Counter	(dpm)	730.19
STANDARD	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4828
LIQUID	Detection Limit	(Ld)	7.39
Sample #	Critical Level	(Lc)	1.76
WRKLST 1133	Tritium Concentration in µCi/L =		3.2891E-01
Instrument Code			
WC51586			
Analyst			
KGH			
Date			
04/15/95			
Time			
12:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 3.29E-01

RESULT Tritium Concentration in µCi/mL = 3.29E-04

Data Entry by:	Sharon L Holden	Date:	04/17/95
Approved by:	Jennifer L. Sevens	Date:	4/17/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			BLANK
Type	Disintegrations per Minute from Counter	(dpm)	-4.82
BLANK	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4628
LIQUID	Detection Limit	(Ld)	7.71
Sample #	Critical Level	(Lc)	1.76
WL 1133	Tritium Concentration in µCi/L =		6.9498E-02
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time	NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).		
12:00 PM			

RESULT Tritium Concentration in µCi/L = < 6.95E-02

RESULT Tritium Concentration in µCi/mL = < 6.95E-05

Data Entry by:	[signature]	Date:	07/31/95
Approved by:	[signature]	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	268.16
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4801
LIQUID	Detection Limit	(Ld)	7.44
Sample #	Critical Level	(Lc)	1.76
S95T000328	Tritium Concentration in µCi/L =		2.4159E+00
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT	Tritium Concentration in µCi/L =	2.42E+00
RESULT	Tritium Concentration in µCi/mL =	2.42E-03

Data Entry by:	[signature]	Date:	07/31/95
Approved by:	[signature]	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	250.73
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4725
LIQUID	Detection Limit	(Ld)	7.56
Sample #	Critical Level	(Lc)	1.76
S95T000328	Tritium Concentration in µCi/L =		2.2588E+00
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT	Tritium Concentration in µCi/L =	2.26E+00
RESULT	Tritium Concentration in µCi/mL =	2.26E-03

Data Entry by:		Date:	07/31/95
Approved by:		Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	268.14
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	401.57
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1133	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	28.46
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4735
S95T328	Detection Limit	(Ld)	7.54
Instrument Code	Critical Level	(Lc)	1.76
WC51586	H3 µCi/L in Sample Vial	(Rsam)	1.21E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.81E-01
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/15/95			
Time			
12:00 PM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 73.0%

Data Entry by: Sharon L Holden Date: 04/17/95
Approved by: Jennifer F Sheppard Date: 4/17/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	35.11
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4765
LIQUID	Detection Limit	(Ld)	7.49
Sample #	Critical Level	(Lc)	1.76
S95T000329	Tritium Concentration in µCi/L =		3.1631E-01
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT Tritium Concentration in µCi/L = 3.16E-01

RESULT Tritium Concentration in µCi/mL = 3.16E-04

Data Entry by:	[signature]	Date:	07/31/95
Approved by:	[signature]	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	368.84
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4769
LIQUID	Detection Limit	(Ld)	7.49
Sample #	Critical Level	(Lc)	1.76
S95T000329	Tritium Concentration in µCi/L =		3.3229E+00
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT Tritium Concentration in µCi/L = 3.32E+00

RESULT Tritium Concentration in µCi/mL = 3.32E-03

Data Entry by:	Jennifer J. Shipman	Date:	07/31/95
Approved by:	J. Shipman	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	35.11
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	7928.16
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1133	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	28.46
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4789
S95T329	Detection Limit	(Ld)	7.45
Instrument Code	Critical Level	(Lc)	1.76
WC51586	H3 µCi/L in Sample Vial	(Rsam)	1.58E-02
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	3.57E+00
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/15/95			
Time			
12:00 PM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 2159.6%

Data Entry by:	Sharon L Holden	Date:	04/17/95
Approved by:	Jennifer L Slepper	Date:	4/17/95

Form 218114X3 Rev. 1.2

1135

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	353.62
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4607
LIQUID	Detection Limit	(Ld)	7.75
Sample #	Critical Level	(Lc)	1.76
S95T000330	Tritium Concentration in µCi/L =		3.1858E+00
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT Tritium Concentration in µCi/L = 3.19E+00

RESULT Tritium Concentration in µCi/mL = 3.19E-03

Data Entry by:		Date:	07/31/95
Approved by:		Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	315.84
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.465
LIQUID	Detection Limit	(Ld)	7.68
Sample #	Critical Level	(Lc)	1.76
S95T000330	Tritium Concentration in µCi/L =		2.8454E+00
Instrument Code			
WC51586			
Analyst			
KGH			
Date			
04/15/95			
Time			
12:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)
Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF
H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))
H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 2.85E+00

RESULT Tritium Concentration in µCi/mL = 2.85E-03

Data Entry by:		Date:	07/31/95
Approved by:		Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	353.62
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	2141.71
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1133	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	28.46
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4062
S95T330	Detection Limit	(Ld)	8.79
Instrument Code	Critical Level	(Lc)	1.76
WC51586	H3 µCi/L in Sample Vial	(Rsam)	1.59E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	9.65E-01
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/15/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
12:00 PM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 536.4%

Data Entry by:	Sharon L Holden	Date:	04/17/95
Approved by:	[signature]	Date:	4/17/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	764.99
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.462
LIQUID	Detection Limit	(Ld)	7.73
Sample #	Critical Level	(Lc)	1.76
S95T000331	Tritium Concentration in µCi/L =		6.8918E+00
Instrument Code			
WC51586			
Analyst			
KGH			
Date			
04/15/95			
Time			
12:00 PM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 6.89E+00

RESULT Tritium Concentration in µCi/mL = 6.89E-03

Data Entry by:	[signature]	Date:	07/31/95
Approved by:	[signature]	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	220
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	1
1133	Digest Dilution Factor	(DDF)	20
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	28.46
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4793
LIQUID	Detection Limit	(Ld)	7.45
Sample #	Critical Level	(Lc)	1.76
S95T000331	Tritium Concentration in µCi/L =		1.9820E+00
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
KGH	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/15/95			
Time			
12:00 PM			

RESULT Tritium Concentration in µCi/L = 1.98E+00

RESULT Tritium Concentration in µCi/mL = 1.98E-03

Data Entry by:	[signature]	Date:	07/31/95
Approved by:	[signature]	Date:	7/31/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-3) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	764.99
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	458.87
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1133	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	28.46
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4589
S95T331	Detection Limit	(Ld)	7.78
Instrument Code	Critical Level	(Lc)	1.76
WC51586	H3 µCi/L in Sample Vial	(Rsam)	3.45E-01
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	2.07E-01
KGH	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/15/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
12:00 PM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		
	H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		
	Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)		
	Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)		
	% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100		

RESULT | Spike Recovery = 20.9%

Data Entry by:	Sharon Holden	Date:	04/17/95
Approved by:	Jennifer J. Suppes	Date:	4/17/95

Form 218114X3 Rev. 1.2

SAM NO	POS	TIME MIN	H#	H-3 CPM	H-3 %ERROR	H-3 DPM	H-3 EFF-1	LUMEX %	ELAPSED TIME	2P
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	58.67	[illegible]	[illegible]	[illegible]	
		Blank	Average	DPM	for	H-3 :	58.67	COEF. OF	VAR:	0.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	730.19	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.82	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	260.14	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	250.73	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	401.57	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	35.11	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	368.84	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7928.16	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	353.62	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	315.84	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2141.71	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	764.99	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	220.00	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	458.87	[illegible]	[illegible]	[illegible]	

BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist# 1181

Analyst: B. Severson **Instrument:** LSC00 LS6500 WC61586 **Book #** 102 B52

Method: LA-218-114 Rev/Mod ~~A-3~~ A-4 5/15/95

Worklist Comment: RERUN 3! /dilute samples 1-10/ use dil. for spks. / jls

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD			@H3-01	H3-01		LIQUID			N/A	uCi/mL
		1	STD			@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
		2	BLNK-PREP			@H3-01	H3-01		LIQUID			N/A	uCi/mL
		2	BLNK-PREP			@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	3	SAMPLE	S95T000328	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	3	SAMPLE	S95T000328	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	4	DUP	S95T000328	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	4	DUP	S95T000328	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	5	SPK	S95T000328	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	6	SAMPLE	S95T000329	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	7	DUP	S95T000329	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	7	DUP	S95T000329	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error
94000020	SY-103	8	SPK	S95T000329	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0	@H3-01	H3-01		LIQUID	N/A			uCi/mL
94000020	SY-103	9	SAMPLE	S95T000330	0	@H3-01	H3-01E		LIQUID	N/A			% Ct. Error
94000020	SY-103	10	DUP	S95T000330	0	@H3-01	H3-01		LIQUID			N/A	uCi/mL
94000020	SY-103	10	DUP	S95T000330	0	@H3-01	H3-01E		LIQUID			N/A	% Ct. Error

Data Entry Comments:

S95T000330 used in S95T000329 used, reluctantly as S95T000331 used

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1181

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
94000020	SY-103	11	SPK	S95T000330	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0	@H3-01	H3-01	LIQUID	N/A			uCi/mL
94000020	SY-103	12	SAMPLE	S95T000331	0	@H3-01	H3-01E	LIQUID	N/A			% Ct. Error
94000020	SY-103	13	DUP	S95T000331	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL
94000020	SY-103	13	DUP	S95T000331	0	@H3-01	H3-01E	LIQUID			N/A	% Ct. Error
94000020	SY-103	14	SPK	S95T000331	0	@H3-01	H3-01	LIQUID			N/A	uCi/mL

Final page for worklist # 1181

B Severson 4.23.95
Analyst Signature Date

Sharon L Walden 4.23.95
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			STANDARD
Type	Disintegrations per Minute from Counter	(dpm)	731.38
STANDARD	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4859
LIQUID	Detection Limit	(Ld)	6.57
Sample #	Critical Level	(Lc)	1.57
WRKLST 1181	Tritium Concentration in µCi/L =		3.6240E+00
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT	Tritium Concentration in µCi/L =	3.62E+00
RESULT	Tritium Concentration in µCi/mL =	3.62E-03

Data Entry by:	Sharon L Walden	Date:	04/24/95
Approved by:	Jennifer L Shipman	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			BLANK
Type	Disintegrations per Minute from Counter	(dpm)	-0.24
BLANK	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4899
LIQUID	Detection Limit	(Ld)	6.52
Sample #	Critical Level	(Lc)	1.57
S95T328	Tritium Concentration in µCi/L =		3.2294E-02
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

NOTE: Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).

RESULT Tritium Concentration in µCi/L = < 3.23E-02

RESULT Tritium Concentration in µCi/mL = < 3.23E-05

Data Entry by:	[signature]	Date:	04/24/95
Approved by:	[signature]	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	36.19
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.483
LIQUID	Detection Limit	(Ld)	6.61
Sample #	Critical Level	(Lc)	1.57
S95T328	Tritium Concentration in µCi/L =		1.7932E-01
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.79E-01

RESULT Tritium Concentration in µCi/mL = 1.79E-04

Data Entry by:	Sharon L. Haldin	Date:	04/24/95
Approved by:	Jennifer [illegible]	Date:	4/28/95

Form 218114L1 Rev. 1 2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	50.05
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4866
LIQUID	Detection Limit	(Ld)	6.56
Sample #	Critical Level	(Lc)	1.57
S95T328	Tritium Concentration in µCi/L =		2.4800E-01
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 2.48E-01

RESULT Tritium Concentration in µCi/mL = 2.48E-04

Data Entry by:	Sharon L Holden	Date:	04/24/95
Approved by:	Jennifer L Schroeder	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-4) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	36.19
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	802.81
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1181	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	22.68
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4821
S95T328	Detection Limit	(Ld)	6.62
Instrument Code	Critical Level	(Lc)	1.57
WC51586	H3 µCi/L in Sample Vial	(Rsam)	1.63E-02
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	3.62E-01
BCS	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/23/95			
Time			
05:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 214.2%

Data Entry by:	Sharon L Mafin	Date:	04/24/95
Approved by:	Jennifer L Simmons	Date:	4/25/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	221.18
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4912
LIQUID	Detection Limit	(Ld)	6.50
Sample #	Critical Level	(Lc)	1.57
S95T329	Tritium Concentration in µCi/L =		1.0959E+00
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.10E+00

RESULT Tritium Concentration in µCi/mL = 1.10E-03

Data Entry by:	Sharon L Walden	Date:	04/24/95
Approved by:	Jennifer L. Sleppett	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	8.22
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4887
LIQUID	Detection Limit	(Ld)	6.53
Sample #	Critical Level	(Lc)	1.57
S95T329	Tritium Concentration in µCi/L =		4.0730E-02
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 4.07E-02

RESULT Tritium Concentration in µCi/mL = 4.07E-05

Data Entry by:	Sharon L Walker	Date:	04/24/95
Approved by:	Jennifer L Seippers	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-4) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	221.18
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	1000.9
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1181	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	22.68
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4873
S95T329	Detection Limit	(Ld)	6.55
Instrument Code	Critical Level	(Lc)	1.57
WC51586	H3 µCi/L in Sample Vial	(Rsam)	9.96E-02
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	4.51E-01
BCS	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/23/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
05:30 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		
	H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		
	Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)		
	Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)		
	% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100		

RESULT Spike Recovery = 243.1%

Data Entry by:	[signature]	Date:	04/24/95
Approved by:	[signature]	Date:	4/25/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	17.1
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4878
LIQUID	Detection Limit	(Ld)	6.55
Sample #	Critical Level	(Lc)	1.57
S95T330	Tritium Concentration in µCi/L =		8.4730E-02
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 8.47E-02

RESULT Tritium Concentration in µCi/mL = 8.47E-05

Data Entry by:	Sharon L Walden	Date:	04/24/95
Approved by:	Jennifer L Slippen	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	30.63
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4872
LIQUID	Detection Limit	(Ld)	6.55
Sample #	Critical Level	(Lc)	1.57
S95T330	Tritium Concentration in µCi/L =		1.5177E-01
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

RESULT Tritium Concentration in µCi/L = 1.52E-01

RESULT Tritium Concentration in µCi/mL = 1.52E-04

Data Entry by:	Sharon L Madden	Date:	04/24/95
Approved by:	Jennifer L Sleppen	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-4) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	17.71
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	424.78
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1181	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	22.68
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4895
S95T330	Detection Limit	(Ld)	6.52
Instrument Code	Critical Level	(Lc)	1.57
WC51586	H3 µCi/L in Sample Vial	(Rsam)	7.98E-03
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	1.91E-01
BCS	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/23/95	Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF		
Time	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)		
05:30 AM	H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))		

H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

RESULT Spike Recovery = 113.5%

Data Entry by:	Sharon L Wald	Date:	04/24/95
Approved by:	Jennifer L Schaefer	Date:	4/25/95

Form 218114X3 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	4.88
SAMPLE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	0.4886
LIQUID	Detection Limit	(Ld)	6.53
Sample #	Critical Level	(Lc)	1.57
S95T331	Tritium Concentration in µCi/L =		3.2380E-02
Instrument Code			
WC51586			
Analyst			
BCS			
Date			
04/23/95			
Time			
05:30 AM			

Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)

Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF

H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))

H3 µCi/mL = µCi/L / 1000mL/L

NOTE: **Reported result is a LESS THAN value calculated from the statistical Detection Limit (Ld).**

RESULT **Tritium Concentration in µCi/L = < 3.24E-02**

RESULT **Tritium Concentration in µCi/mL = < 3.24E-05**

Data Entry by:	Sharon L. Uhl	Date:	04/24/95
Approved by:	Jennifer L. Dennis	Date:	4/25/95

Form 218114L1 Rev. 1.2

1156

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-111 (E-1), 113 (INA), 114 (A-4) TRITIUM LIQUIDS

			SAMPLE
Type	Disintegrations per Minute from Counter	(dpm)	51.2
DUPLICATE	Sample Volume in mL	(SS)	1
Work List	Dilution Factor	(DF)	11
1181	Digest Dilution Factor	(DDF)	1
Test Code	Background Count Rate in Counts per Minute	(BKG cpm)	22.68
@H3-01	Background Count Time in Minutes	(BKG Time)	50
Matrix	Instrument Fractional Efficiency	(EFF)	4807
LIQUID	Detection Limit	(Ld)	0.00
Sample #	Critical Level	(Lc)	1.57
S95T331	Tritium Concentration in µCi/L =		2.5369E-01
Instrument Code			
WC51586	Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG Time)		
Analyst	Detection Limit (Ld) = ((2.72 / BKG Time) + (2 * Lc)) / EFF		
BCS	H3 µCi/L = (dpm * (1000mL/L) * DF * DDF) / (SS * (2220000dpm/µCi))		
Date	H3 µCi/mL = µCi/L / 1000mL/L		
04/23/95			
Time			
05:30 AM			

RESULT Tritium Concentration in µCi/L = 2.54E-01

RESULT Tritium Concentration in µCi/mL = 2.54E-04

Data Entry by:	Sharon L. [illegible]	Date:	04/24/95
Approved by:	[illegible]	Date:	4/25/95

Form 218114L1 Rev. 1.2

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

H3 : LA-218-113 (INA), LA-218-114 (A-4) TRITIUM SPIKE

			SPIKE
Type	dpm of Sample from Counter	(dpm1)	4.88
SPIKE	dpm of Sample + Spike from Counter	(dpm2)	1245.32
Work List	Volume of Sample in Distillation Vial in mL	(Svol)	1.5
1181	Volume of Spike in Distillation Vial in mL	(SPK vol)	1.5
Test Code	Volume Transferred to Scintillation Vial in mL	(TR vol)	1
@H3-01	Spike Value in µCi/L	(SPK val)	0.33
Matrix	Background Count Rate in cpm	(BKG cpm)	22.68
LIQUID	Background Count Time in Minutes	(BKG time)	50
Sample #	Instrument Fractional Efficiency of Sample	(EFF)	0.4865
S95T331	Detection Limit	(Ld)	6.56
Instrument Code	Critical Level	(Lc)	1.57
WC51586	H3 µCi/L in Sample Vial	(Rsam)	0.00E+00
Analyst	H3 µCi/L in Sample + Spike Vial	(Rs+s)	5.61E-01
BCS	Vol. Ratio Sample Vol. to Total Vol.	(VRsam)	5.00E-01
Date	Vol. Ratio Spike Vol. to Total Vol.	(VRspike)	5.00E-01
04/23/95			
Time			
05:30 AM			

Detection Limit (Ld) = ((2.72 / BKG time) + (2 * Lc)) / EFF
Critical Level (Lc) = 2.33 * the Square Root of (BKG cpm / BKG time)
H3 µCi/L in Sample Vial (Rsam) = dpm1 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
H3 µCi/L in Sample + Spike Vial (Rs+s) = dpm2 * (1000mL/L) / (TR vol * (2220000dpm/µCi))
Volume Ratio of Sample Volume to Total Volume (VRsam)= Svol / (Svol + SPK vol)
Volume Ratio of Spike Volume to Total Volume (VRspike) = SPK vol / (Svol + SPK vol)
% Spike Recovery = (((Rs+s) - (Rsam * VRsam)) / (SPK val * VRspike)) * 100

NOTE: The sample dpm was LESS THAN the detection limit (Ld), therefor zero (0) was used for Rsam (sample value) in the calculation.

RESULT Spike Recovery = 340.0%

Data Entry by:	[signature]	Date:	04/24/95
Approved by:	[signature]	Date:	4/25/95

Form 218114X3 Rev. 1

Raymond 4.24.95

WHC-SD-WM-DP-074, REV. 0

ID:H-3 TRITIUM

23 APR 1995 11:18

USER: 1 COMMENT:LS 6500

PRESET TIME : 50.00

DATA CALC :	SL DPM	H#	:YES	SAMPLE REPEATS:	1	PRINTER	: STD
COUNT BLANK :	YES	IC#	: NO	REPLICATES :	1	RS232	: OFF
LAC PHASE :	YES	ADC	: NO	CYCLE REPEATS :	1	DISK	: OFF
SCINTILLATOR:	LIQUID	LUMEX	:YES	LOW SAMPLE REJ:	0		
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:				none	

ISOTOPE 1: H-3 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low:-6.249 High:303.57

SAM NO	POS	TIME MIN	H#	H-3 CPM	H-3 %ERROR	H-3 DPM	H-3 EFF-1	LUMEX %	ELAPSED TIME	2P
S1	**-1	50.00	90.4	22.68	5.97	46.58	48.69	0.50	51.62	
		Blank Average		DPM for		H-3 :	46.58	COEF. OF VAR:	0.000	
1	**-3	50.00	90.8	378.00	1.46	731.38	48.59	0.66	103.79	
2	**-4	50.00	89.2	22.70	5.96	-0.24	48.99	0.39	155.44	
3	**-5	50.00	92.0	39.98	4.48	36.19	48.30	0.04	207.04	
4	**-6	50.00	90.5	47.02	4.13	50.05	48.66	0.03	258.66	
5	**-7	50.00	92.4	409.46	1.40	802.81	48.21	0.03	310.47	
6	**-8	50.00	88.6	131.52	2.47	221.18	49.12	0.01	362.09	
7	**-9	50.00	89.7	26.78	5.47	8.22	48.87	0.07	413.69	
8	**-10	50.00	90.2	510.44	1.25	1000.90	48.73	0.02	465.55	
9	**-11	50.00	90.0	31.06	5.09	17.10	48.78	0.19	517.25	
10	**-12	50.00	90.3	37.62	4.62	30.63	48.72	0.10	568.95	
11	**-1	50.00	89.3	230.70	1.87	424.78	48.95	0.27	620.98	
12	**-2	50.00	89.7	25.14	5.65	4.88	48.86	0.10	672.57	
13	**-3	50.00	92.9	47.00	4.13	51.20	48.07	0.04	724.19	
14	**-4	50.00	90.5	628.52	1.13	1245.32	48.65	0.01	775.99	

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