Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

CHARACTERIZATION OF INHALABLE PARTICULATE MATTER EMISSIONS FROM THE LIME INDUSTRY

DRAFT REPORT

Volume VI
Appendix F Thru I

EPA Contract No. 68-02-3158, Technical Directive No. 4
MRI Project No. 4891-L(93)

For

Industrial Environmental Research Laboratory
Environmental Protection Agency
Cincinnati, Ohio 45268

Attn: Charles H. Darvin

MIDWEST RESEARCH INSTITUTE 425 VOLKER BOULEVARD, KANSAS CITY, MISSOURI 64110 • 816 753-7600

APPENDIX F

LABORATORY AND ANALYTICAL DATA

TARE WEIGHTS

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓92		0.49744	as	12/03/80	0.49721	as	12/03/80				0.49732
✓93		0.49458	as	12/03/80	0.49415	as	12/03/80				0.49436
✓94		0.49600	as	12/03/80	0.49603	as	12/03/80				0.49601
✓95		0.49505	as	12/03/80	0.49487	as	12/03/80				0.49496
✓96		0.49967	as	12/03/80	0.49955	as	12/03/80				0.49961
✓97		0.49249	as	12/03/80	0.49260	as	12/03/80				0.49254
✓98		0.49552	as	12/03/80	0.49500	as	12/03/80	0.49512	as	12/03/80	0.49506
✓99		0.49604	as	12/03/80	0.49623	as	12/03/80				0.49613
✓100		0.49532	as	12/03/80	0.49526	as	12/03/80				0.49529
✓101		0.49845	as	12/03/80	0.49807	as	12/03/80				0.49826
✓102		0.49694	as	12/03/80	0.49647	as	12/03/80				0.49670
✓103		0.49743	as	12/03/80	0.49773	as	12/03/80				0.49758
✓104		0.49510	as	12/03/80	0.49522	as	12/03/80				0.49516
✓105		0.49853	as	12/03/80	0.49833	as	12/03/80				0.49843
✓106		0.49295	as	12/03/80	0.49285	as	12/03/80				0.49290
✓107		0.30887	as	12/03/80	0.30857	as	12/03/80				0.30872
✓108		0.30354	as	12/03/80	0.30341	as	12/03/80				0.30347
✓109		0.30675	as	12/03/80	0.30632	as	12/03/80				0.30653
✓110		0.30445	as	12/03/80	0.30415	as	12/03/80				0.30430
✓111		0.30123	as	12/03/80	0.30138	as	12/03/80				0.30130
✓112		0.30425	as	12/03/80	0.30447	as	12/03/80				0.30436
✓113		0.30699	as	12/03/80	0.30664	as	12/03/80				0.30681
✓114		0.30152	as	12/03/80	0.30130	as	12/03/80				0.30141
✓115		0.29677	as	12/03/80	0.29684	as	12/03/80				0.29680
✓116		0.29976	as	12/03/80	0.29968	as	12/03/80				0.29972
✓117		0.30408	as	12/03/80	0.30414	as	12/03/80				0.30411
✓118		0.31007	as	12/03/80	0.31023	as	12/03/80				0.31015
✓119		0.51905	as	12/03/80	0.51898	as	12/03/80				0.51901
✓120		0.52254	as	12/03/80	0.52275	as	12/03/80				0.52264
✓121		0.51228	as	12/03/80	0.51242	as	12/03/80				0.51235

Remarks:

TARE WEIGHTS

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
122 ✓		0.49657	as	12/04/80	0.49623	as	12/04/80				0.49640
123 ✓		0.49573	as	12/04/80	0.49566	as	12/04/80				0.49569
124 ✓		0.49474	as	12/04/80	0.49472	as	12/04/80				0.49473
125 ✓		0.48907	as	12/04/80	0.48892	as	12/04/80				0.48899
126 ✓		0.49516	as	12/04/80	0.49497	as	12/04/80				0.49506
127 ✓		0.48698	as	12/04/80	0.48655	as	12/04/80				0.48676
128 ✓		0.49730	as	12/04/80	0.49714	as	12/04/80				0.49722
129 ✓		0.48893	as	12/04/80	0.48854	as	12/04/80				0.48873
130 ✓		0.49442	as	12/04/80	0.49422	as	12/04/80				0.49432
131 ✓		0.49078	as	12/04/80	0.49048	as	12/04/80				0.49063
132 ✓		0.49906	as	12/04/80	0.49904	as	12/04/80				0.49905
133 ✓		0.51862	as	12/04/80	0.51832	as	12/04/80				0.51847
134 ✓		0.51008	as	12/04/80	0.51008	as	12/04/80				0.51008
135 ✓		0.49860	as	12/04/80	0.49842	as	12/04/80				0.49851
136 ✓		0.50054	as	12/04/80	0.50018	as	12/04/80				0.50036
137 ✓		0.50426	as	12/04/80	0.50403	as	12/04/80				0.50414
138 ✓		0.51061	as	12/04/80	0.51027	as	12/04/80				0.51044
139 ✓		0.51301	as	12/04/80	0.51293	as	12/04/80				0.51297
140 ✓		0.50257	as	12/04/80	0.50233	as	12/04/80				0.50245
141 ✓		0.51097	as	12/04/80	0.51091	as	12/04/80				0.51094
142 ✓		0.48512	as	1/8/81	0.48494	as	1/9/81				.48503
143 ✓		0.48718	as	1/8/81	0.48742	as	1/9/81				.48730
144		0.50053	as	1/8/81	0.49998	as	1/9/81	0.49978	as	1/9/81	.49988
145 ✓		0.49718	as	1/8/81	0.49683	as	1/9/81				.49701
146 ✓		0.49582	as	1/8/81	0.49566	as	1/9/81				.49574
147 ✓		0.49410	as	1/8/81	0.49394	as	1/9/81				.49462
148		0.49405	as	1/8/81	0.49385	as	1/9/81				.49395
149		0.49379	as	1/8/81	0.49334	as	1/9/81				.49357
150		0.48885	as	1/8/81	0.48866	as	1/9/81				.48876
151		0.49658	as	1/8/81	0.49623	as	1/9/81				.49641

Remarks:

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
152		0.49408	as	1/8/81	0.49378	as	1/9/81				.49393
153		0.49262	as	1/8/81	0.49211	as	1/9/81				.49237

Remarks:

FINAL WEIGHTS

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓92	BAG-I-3-2	1.61337	aa	12/09/80	1.61288	aa	12/09/80				
✓93	DC-2-1	0.75598	aa	12/08/80	0.75553	aa	12/09/80				
✓94	DC-3-3	0.85668	aa	12/09/80	0.85672	aa	12/09/80				
✓95	DC-3-1	0.75383	aa	12/08/80	0.75312	aa	12/09/80	0.75334	aa	12/09/80	
✓96	ESP-I-4-4	1.95498	aa	12/10/80	1.95466	aa	12/10/80				1.95482
✓97	BAG-I-3-1	1.66284	aa	12/09/80	1.66318	aa	12/09/80				
✓98	ESP-0-1-4(2)	0.95936	aa	12/09/80	0.95915	aa	12/09/80				.95925
99											
✓100	FILTER BLANK	0.49496	aa	12/10/80	0.49473	aa	12/10/80				.49485
✓101	FILTER BLANK	0.49885	aa	12/10/80	0.49865	aa	12/10/80				.49875
✓102	FILTER BLANK	0.49648	aa	12/09/80	0.49637	aa	12/09/80				.49643
✓103	FILTER BLANK	0.49723	aa	12/10/80	0.49767	aa	12/10/80				.49745
✓104	FILTER BLANK	0.49490	aa	12/10/80	0.49515	aa	12/10/80				.49503
105											
✓106	DC-3-2	1.07203	aa	1/8/81	1.07183	aa	1/9/81				1.07193
✓107	BAG-0-2-4	0.31226	aa	12/08/80	0.31180	aa	12/09/80				
✓108	BAG-0-3-2	0.30446	aa	12/08/80	0.30428	aa	12/09/80				
109											
✓110	FILTER BLANK	0.30315	aa	12/09/80	0.30308	aa	12/09/80				.30312
✓111	FILTER BLANK	0.30081	aa	12/09/80	0.30121	aa	12/09/80				.30101
✓112	FILTER BLANK	0.30430	aa	12/10/80	0.30411	aa	12/10/80				.30421
✓113	FILTER BLANK	0.30611	aa	12/10/80	0.30646	aa	12/10/80				.30629
✓114	FILTER BLANK	0.30121	aa	12/10/80	0.30143	aa	12/10/80				.30132
✓115	BAG-0-3-1	0.29918	aa	1/8/81	0.29929	aa	1/9/81				0.29924
✓116	BAG-0-4-1	0.30534	aa	1/9/81	0.30498	aa	1/9/81				0.30516
✓117	BAG-0-3-3	0.31513	aa	1/9/81	0.31484	aa	1/9/81				0.31499
✓118	BAG-0-4-2	0.31868	[illegible]	1/11/81	0.31814	[illegible]	1/11/81				0.31891
✓119	BAG-0-4-4	0.53269	[illegible]	1/11/81	0.53231	[illegible]	1/11/81				0.53250
✓120	BAG-0-1-3	0.53472	[illegible]	1/11/81	0.53434	[illegible]	1/11/81				0.53453
✓121	Blank	0.51200	[illegible]	1/11/81	0.51225	[illegible]	1/12/81				0.51213

Remarks:

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓122	DC-3-4	1.14197	as	1/8/81	1.14175	as	1/9/81				1.14186
✓123	BAG-I-4-3	1.60395	as	1/8/81	1.60388	as	1/9/81				1.60392
124											
✓125	~~BAG-I-3-1~~ ~~BAG-I-4-3~~	1.83301	as	1/9/81	1.83284	as	1/9/81				1.83293
✓126	DC-4-2	1.18921	as	1/9/81	1.18903	as	1/9/81				1.18912
127											
✓128	DC-4-4	0.79846	as	1/9/81	0.79825	as	1/9/81				0.79836
✓129	BAG-I-3-4	1.07887	as	1/9/81	1.07902	as	1/9/81				1.07896
✓130	DC-4-3	0.54214	as	1/9/81	0.54186	as	1/9/81				0.54200
✓131	BAG I-4-2	1.10810	JJ	1/11/81	1.10828	JJ	1/11/81				1.10819
✓132	Blank	0.49936	JJ	1/11/81	0.49984	JJ	1/12/81				0.49960
✓133	Blank	0.51900	JJ	1/11/81	0.51862	JJ	1/12/81				0.51881
134											
135											
136											
137											
138											
139											
140											
141											
✓142	DC 4-1	0.62281	JJ	1/11/81	0.62263	JJ	1/11/81				0.62272
✓143	BAG I-4-1	1.62162	JJ	1/11/81	1.62118	JJ	1/11/81				1.62140
✓144	Blank	0.50173	JJ	1/11/81	0.50221	JJ	1/12/81				0.50197
✓145	DC 1-4	1.31647	JJ	1/11/81	1.31618	JJ	1/11/81				1.31633
✓146	BAG I-2-1	1.74209	JJ	1/11/81	1.74160	JJ	1/11/81				1.74185
✓147	Blank	0.49460	JJ	1/11/81	0.49419	JJ	1/12/81				0.49443
✓148	Blank	0.49441	JJ	1/11/81	0.49489	JJ	1/12/81				0.49465
149											
150											
151											

Remarks: * 147, 148 and 144 are 4" filter blanks
* 121, 132 and 133 are 3.5" filter blanks

TARE WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol. ml	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
✓127	DC-1-1	200ml	82.30508	aa	12/03/80	82.30552	aa	12/04/80				82.30530
✓128	BAG-I 3-2	115	85.72748	aa	12/03/80	85.72747	aa	12/04/80				85.72747
✓129	ACETONE BLANK 12-5-80	154	87.62643	aa	12/03/80	87.62598	aa	12/04/80				87.62620
✓130	BAG-I 2-2	163	89.84648	aa	12/03/80	89.84623	aa	12/04/80				89.84635
✓131	DC-2-3	148	89.80872	aa	12/03/80	89.80812	aa	12/04/80				89.80842
✓132	DC-2-1	165	90.00691	aa	12/03/80	90.00651	aa	12/04/80				90.00671
✓133	DC-2-2	205	84.83327	aa	12/03/80	84.83294	aa	12/04/80				84.83310
✓134	BAG-I 1-1	195ml	88.99651	aa	12/03/80	88.99622	aa	12/04/80				88.99636
✓135	BAG-D-1-1	70	85.01411	aa	12/03/80	85.01410	aa	12/04/80				85.01410
✓136	BAG-C 2-4	95	88.31017	aa	12/03/80	88.31005	aa	12/04/80				88.31011
✓137	ACETONE BLANK 12-4-80	146	84.87933	aa	12/03/80	84.87912	aa	12/04/80				84.87922
✓138	DC-3-3	156	85.43131	aa	12/03/80	85.43122	aa	12/04/80				85.43126
✓139	BAG-I 2-3	200	90.39619	aa	12/03/80	90.39588	aa	12/04/80				90.39603
✓140	BAG-D 2-2	75	87.81967	aa	12/03/80	87.81945	aa	12/04/80				87.81956
✓141	BAG-D 2-1	145	89.31983	aa	12/03/80	89.31921	aa	12/04/80	× 89.31934	aa	12/04/80	89.31927
✓142	DC-2-4	223	87.30733	aa	12/03/80	87.30715	aa	12/04/80				87.30724
✓143	BAG-I 2-1	208	86.75524	aa	12/03/80	86.75497	aa	12/04/80				86.75510
✓144	BAG-I 3-1	203	90.43102	aa	12/06/80	90.43073	aa	12/08/80				90.43087
✓145	ACETONE BLANK 12-8-80	165	88.94208	aa	12/06/80	88.94197	aa	12/08/80				88.94202
✓146	ESP-D 1-4(2)	222	91.86000	aa	12/06/80	91.86008	aa	12/08/80				91.86004
✓147	BAG-I 3-2	235	94.99403	aa	12/06/80	94.99362	aa	12/08/80				94.99382
✓148	FILTER BLANK #114	48	93.50078	aa	12/06/80	93.50042	aa	12/08/80				93.50060
✓149	ACETONE BLANK 12-9-80	160	92.93368	aa	12/06/80	92.93393	aa	12/08/80				92.93380
150	DC-5	220	93.12438	aa	12/06/80	93.12386	aa	12/08/80				93.12412
✓151	FILTER 104 BLANK	55	94.41792	aa	12/08/80	94.41753	aa	12/08/80				94.41772
✓152	FILTER BLANK #100	52	93.86971	aa	12/08/80	93.86970	aa	12/08/80				93.86970
✓153	FILTER BLANK #113	48	94.22297	aa	12/08/80	94.22283	aa	12/08/80				94.22290
✓154	FILTER BLANK #105	53	81.93544	aa	12/08/80	81.93534	aa	12/08/80				81.93539
✓155	FILTER BLANK #112	36	91.42500	aa	12/08/80	91.42473	aa	12/08/80				91.42486
156	ESP-I 4-4	285	91.08811	aa	12/08/80	91.08856	aa	12/09/80				91.08833

Remarks: I.D. RUN ESP-I-4-4-#2 BEAKERS USED

TARE WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
157 ✓	EXP-I 4-4	SEE BEAKER #156	85.40724	as	12/08/80	85.40741	as	12/09/80				85.40733
158 ✓	BAG-I 4-3	130	92.39139	as	12/08/80	92.39462	as	1/6/81	92.39458	[illegible]	1/6/81	92.39460
159 ✓	I-6-81 BLANK	120	93.06160	as	12/08/80	93.06297	as	1/6/81	93.06295	as	1/6/81	93.06296
160 ✓	BAG 0-4-1	144	92.94582	as	12/08/80	92.94908	as	1/6/81	92.94904	as	1/6/81	92.94906
161 ✓	BAG I-4-2	120	93.58775	as	12/08/80	93.58722	as	1/6/81	93.58726	as	1/6/81	93.58724
162 ✓	D-C 4-3	165	94.14049	as	12/08/80	94.14063	as	1/6/81		as	[illegible]	94.14056
163 ✓	BAG-O 3-1	90	88.44418	as	12/08/80	88.44335	as	1/6/81	88.44353	as	1/7/81	88.44344
164 ✓	1-2-81 BLANK	130	93.60836	as	12/08/80	93.60714	as	1/6/81	93.60734	as	1/7/81	93.60724
165 ✓	1-8-81 BLANK	170	94.58251	as	12/08/80	94.58353	as	1/6/81	94.58378	as	1/7/81	94.58366
166 ✓	D-C 4-2	190	94.21340	as	12/08/80	94.21389	as	1/6/81				94.21365
167 ✓	D-C 3-2	240	92.21309	as	12/08/80	92.21147	as	1/6/81	92.21135	as	1/7/81	92.21141
168 ✓	BAG-I 3-1	175	89.03930	as	12/08/80	89.03970	as	1/6/81				89.03950
169 ✓	D-C 4-4	220	91.88064	as	12/08/80	91.88186	as	1/6/81	91.88195	as	1/7/81	91.88191
170 ✓	D-C 3-4	180	92.84491	as	12/08/80	92.84455	as	1/6/81				92.84473
171 ✓	BAG-O 4-2	75	92.02886	as	12/08/80	92.02898	as	1/6/81				92.02892
172 ✓	BAG I-3-4	190	94.42284	as	12/08/80	94.42252	as	1/6/81				94.42268
173	DC 4-1	12.6	89.12990	as	1/9/81	89.12999	[illegible]	1/10/81				89.12995
174	BAG 0-3-3	120	94.46304	as	1/9/81	94.46157	[illegible]	"	94.46115	[illegible]	1/10/81	94.46136
175			89.33706	as	1/9/81	89.33680	[illegible]	"			"	89.33693
176	BAG 0-4-4	110	86.09453	as	1/9/81	86.09330	[illegible]	"	86.09315	[illegible]	"	86.09323
177	DC 1-4	192	90.90783	as	1/9/81	90.90737	[illegible]	"				90.90760
178	BAG 0-1-3	120	81.40771	as	1/9/81	81.40711	[illegible]	"	81.40715	[illegible]	"	81.40713
179		BROKEN										
180 ✓	BAG I-2-1	135	89.25501	as	1/9/81	89.25300	[illegible]	"	89.25300	[illegible]	"	89.25300
181	1-9-81 BLANK	150	84.73968	as	1/9/81	84.73827	[illegible]	"	84.73849	[illegible]	"	84.73838
182	BAG I-4-1	133	93.70186	as	1/9/81	93.70070	[illegible]	"	93.70065	[illegible]	"	93.70068
183												
184												
185												
186												

Remarks:

FINAL WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓127			84.47221	as	12/05/80	84.47246	JP	12/5/80				84.47233
✓128			85.76797	as	12/09/80	85.76648	as	12/10/80	85.76644	as	12/10/80	85.76646
✓129			87.62193	as	12/09/80	87.62147	as	12/10/80				87.62170
✓130			91.23176	as	12/08/80	91.22866	as	12/09/80	91.22902	as	12/10/80	91.22884
✓131			91.46075	as	12/08/80	91.46043	as	12/09/80				91.46059
✓132			91.48596	as	12/09/80	91.48578	as	12/10/80				91.48587
✓133			86.31862	as	12/08/80	86.31816	as	12/09/80				86.31839
✓134			90.61484	as	12/05/80	90.61849	JP	12/5/80	90.61871	as	12/6/80	90.61860
✓135			85.02669	as	12/08/80	85.02634	as	12/09/80				85.02651
✓136			88.34175	as	12/09/80	88.34200	as	12/10/80				88.34187
✓137			84.87848	as	12/09/80	84.87868	as	12/10/80				84.87858
✓138			87.35389	as	12/09/80	87.35363	as	12/10/80				87.35376
✓139			91.88884	as	12/09/80	91.88864	as	12/10/80				91.88874
✓140			87.83566	as	12/08/80	87.83579	as	12/09/80				87.83573
✓141			89.33694	as	12/08/80	89.33665	as	12/09/80				89.33679
✓142			88.25247	as	12/08/80	88.25217	as	12/09/80				88.25232
✓143			88.68807	as	12/08/80	88.68845	as	12/09/80				88.68826
✓144			91.99451	as	12/10/80	91.99417	as	12/10/80				91.99434
✓145			88.94310	as	12/10/80	88.94332	as	12/10/80				88.94321
✓146			92.09579	as	12/10/80	92.09612	as	12/10/80				92.09595
✓147			96.45175	as	12/09/80	96.44982	as	12/10/80	96.44979	as	12/10/80	96.44981
✓148			93.50871	as	12/10/80	93.50883	as	12/10/80				93.50877
✓149			92.93679	as	12/10/80	92.93653	as	12/10/80				92.93666
✓150			94.62226	as	12/09/80	94.62201	as	12/10/80				94.62213
✓151			94.42143	as	12/10/80	94.42121	as	12/10/80				94.42132
✓152			93.87271	as	12/10/80	93.87264	as	12/10/80				93.87268
✓153			94.22755	as	12/10/80	94.22753	as	12/10/80				94.22754
✓154			81.94221	as	12/10/80	81.94203	as	12/10/80				81.94212
✓155			91.42857	as	12/10/80	91.42826	as	12/10/80				91.42842
✓156			96.00619	as	12/10/80	96.00603	as	12/10/80				96.00611

Remarks:

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
157			99.49913	AS	12/10/80	99.49884	AS	12/10/80				99.49899
158			93.64855	[illegible]	1/10/81	93.64965	JJ	1/11/81	93.64962	JJ	1/11/81	93.64964
159			93.06300	[illegible]	1/10/81	93.06282	JJ	1/11/81				93.06291
160			92.95815	[illegible]	1/10/81	92.95832	JJ	1/11/81	92.95800	JJ	1/11/81	92.95816
161			94.39445	[illegible]	1/10/81	94.39523	JJ	1/11/81	94.39539	JJ	1/11/81	94.39531
162			94.52349	[illegible]	1/10/81	94.52263	J.J.	1/11/81	94.52226	JJ	1/11/81	94.52245
163			88.46143	[illegible]	1/10/81	88.46136	JJ	1/11/81				88.46140
164			93.60800	[illegible]	1/10/81	93.60801	JJ	1/11/81				93.60801
165			94.58373	[illegible]	1/10/81	94.58377	JJ	1/11/81				94.58375
166			94.58181	[illegible]	1/10/81	94.58200	JJ	1/11/81				94.58191
167			92.75340	[illegible]	1/10/81	92.75300	JJ	1/11/81				92.7532
168			90.50489	[illegible]	1/10/81	90.50560	JJ	1/11/81	90.50575	JJ	1/11/81	90.50568
169			92.53118	JJ	1/11/81	92.53110	JJ	1/11/81				92.53114
170			93.35467	[illegible]	1/10/81	93.35485	JJ	1/11/81				93.35476
171			92.05606	[illegible]	1/10/81	92.05700	JJ	1/11/81	92.05668	JJ	1/11/81	92.05684
172			95.28888	[illegible]	1/10/81	95.28836	JJ					95.28862
173			89.98045	JJ	1/11/81	89.98057	JJ	1/12/81				89.98051
174			94.47580	JJ	1/11/81	94.47616	JJ	1/11/81				94.47598
175												
176			86.11963	JJ	1/11/81	86.11921	JJ	1/11/81				86.11942
177			91.32874	JJ	1/11/81	91.32832	JJ	1/12/81				91.32853
178			81.42924	JJ	1/11/81	81.42575	JJ	1/11/81	81.42731	JJ	1/12/81	81.42753
179												
180			90.53826	JJ	1/11/81	90.53791	JJ	1/11/81				90.53809
181			84.74092	JJ	1/11/81	84.74068	JJ	1/12/81				84.74080
182			94.86700	JJ	1/11/81	94.86654	JJ	1/12/81				94.86677
183												
184												

Remarks:

Project No. 4891-L93 Date of Work: OCTOBER 18, 1980 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
1	Cyc.	.21847	.21864	.21867	.21859
	1	.32586	.32546	.32551	.32561
	2	.33469	.33421	.33417	.33435
	3	.32669	.32628	.32639	.32645
	4	.33128	.33081	.33081	.33096
	5	.31719	.31682	.31673	.31691
	F	.25768	.25774	.25772	.25771
2	Cyc.	.20964	.20970	.20974	.20969
	1	.32352	.32312	.32310	.32324
	2	.31904	.31861	.31850	.31871
	3	.32774	.32729	.32729	.32744
	4	.32544	.32506	.32509	.32519
	5	.34401	.34359	.34361	.34373
	F	.25499	.25508	.25503	.25503
3	Cyc.	.20772	.20779	.20777	.20776
	1	.33131	.33136	.33128	.33131
	2	.32496	.32505	.32510	.32503
	3	.32381	.32389	.32389	.32386
	4	.33106	.33113	.33115	.33111
	5	.33515	.33516	.33517	.33516
	F	.24999	.25006	.25002	.25002

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 18 1980 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
4	Cyc.	.20826	.20831	.20831	.20829
	1	.33618	.33618	.33619	.33618
	2	.32618	.32627	.32633	.32626
	3	.33008	.33005	.32993	.33002
	4	.32623	.32631	.32629	.32627
	5	.32467	.32461	.32461	.32463
	F	.24544	.24551	.24546	.24547
5	Cyc.	.21453	.21457	.21453	.21454
	1	.33497	.33545	.33549	.33530
	2	.39354	.39404	.39403	.39387
	3	.39480	.39524	.39526	.39510
	4	.41346	.41346	.41345	.41345
	5	.41203	.41201	.41201	.41201
	F	.26095	.26087	.26078	.26088
6	Cyc.	.21144	.21143	.21144	.21143
	1	.33465	.33510	.33510	.33495
	2	.39335	.39381	.39378	.39364
	3	.39675	.39674	.39673	.39674
	4	.40221	.40206	.40206	.40211
	5	.40681	.40671	.40673	.40675
	F	.25316	.25249	.25246	.25270

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 18, 1980 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
7	Cyc.	.20378	.20315	.20315	.20336
	1	.40185	.40188	.40182	.40185
	2	.40397	.40397	.40395	.40396
	3	.41633	.41635	.41631	.41633
	4	.40278	.40274	.40274	.40275
	5	.38166	.38164	.38165	.38165
	F	.25839	.25775	.25773	.25796
8	Cyc.	.21531	.21465	.21464	.21486
	1	.40271	.40269	.40268	.40269
	2	.40270	.40267	.40267	.40268
	3	.40108	.40103	.40104	.40105
	4	.39851	.39851	.39850	.39850
	5	.39475	.39472	.39471	.39472
	F	.25258	.25195	.25192	.25215
9	Cyc.	.21750	.21687	.21684	.21707
	1	.32227	.32237	.32224	.32229
	2	.40984	.40980	.40980	.40981
	3	.41029	.41029	.41025	.41027
	4	.40765	.40762	.40759	.40762
	5	.37651	.37646	.37645	.37647
	F	.24448	.24382	.24382	.24404

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

10

Project No. 4891-L93 Date of Work: OCTOBER 20, 1980 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
10	Cyc.	.20539	.20473	.20559	.20523
	1	.39479	.39478	.39485	.39480
	2	.39005	.39006	.39007	.39006
	3	.41122	.41122	.41126	.41123
	4	.39720	.39724	.39724	.39722
	5	.40948	.40945	.40948	.40947
	F	.25136	.25073	.25143	.25117
11	Cyc.	.20812	.20755	.20819	.20795
	1	.40500	.40499	.40500	.40499
	2	.41066	.41065	.41068	.41066
	3	.39897	.39897	.39898	.39897
	4	.42283	.42283	.42285	.42283
	5	.39557	.39558	.39559	.39558
	F	.24705	.24642	.24707	.24684
12	Cyc.	.20934	.20876	.20941	.20917
	1	.39054	.39055	.39060	.39056
	2	.42183	.42179	.42184	.42182
	3	.41185	.41185	.41189	.41186
	4	.41292	.41293	.41296	.41293
	5	.39616	.39614	.39610	.39613
	F	.25123	.25060	.25129	.25104

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-193 Date of Work: OCTOBER 20, 1980 13,14 OCTOBER 24, 1980-15 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
13	Cyc.	.22068	.22008	.22073	.22049
	1	.39850	.39850	.39851	.39850
	2	.41271	.41272	.41270	.41271
	3	.40017	.40022	.40024	.40021
	4	.41321	.41317	.41324	.41320
	5	.37462	.37461	.37465	.37462
	F	.26182	.26119	.26183	.26161
14	Cyc.	.21293	.21235	.21271	.21266
	1	.40543	.40542	.40541	.40542
	2	.39631	.39633	.39635	.39633
	3	.40987	.40988	.40987	.40987
	4	.40758	.40757	.40760	.40758
	5	.33106	.33114	.33110	.33110
	F	.26085	.26089	.26086	.26087
15	Cyc.	.21941	.21951	.21949	.21947
	1	.34237	.34244	.34241	.34240
	2	.34151	.34162	.34157	.34156
	3	.34212	.34203	.34213	.34209
	4	.33599	.33608	.33615	.33607
	5	.34885	.34896	.34893	.34891
	F	.25965	.25970	.25969	.25968

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 24, 1980 Work Performed by: JP

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
16	Cyc.	.22482	.22483	.22481	.22482
	1	.34593	.34585	.34581	.34586
	2	.34585	.34591	.34588	.34588
	3	.42127	.42120	.42122	.42123
	4	.34492	.34494	.34494	.34493
	5	.34578	.34578	.34575	.34577
	F	.25990	.25997	.26003	.25996
17	Cyc.	.22440	.22442	.22442	.22441
	1	.33986	.33986	.33990	.33987
	2	.34723	.34725	.34726	.34724
	3	.34836	.34836	.34831	.34834
	4	.33895	.33899	.33899	.33897
	5	.35147	.35150	.35151	.35149
	F	.26119	.26124	.26129	.26124
18	Cyc.	.21570	.21578	.21576	.21574
	1	.41313	.41312	.41312	.41312
	2	.41505	.41505	.41508	.41506
	3	.33759	.33756	.33758	.33757
	4	.35973	.35981	.35972	.35975
	5	.34600	.34606	.34601	.34602
	F	.25583	.25582	.25584	.25583

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-193 Date of Work: OCT. 25, 1980 - 19 OCT 28 1980 - 20, 21 Work Performed by: JP

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
19	Cyc.	.22714	.22732	.22716	.22720
	1	.34362	.34369	.34374	.34368
	2	.34332	.34336	.34337	.34335
	3	.34146	.34152	.34143	.34147
	4	.41677	.41677	.41684	.41679
	5	.34206	.34211	.34207	.34208
	F	.26725	.26727	.26720	.26724
20	Cyc.	.23155	.23177	.23160	.23164
	1	.42431	.42429	.42430	.42430
	2	.41907	.41908	.41909	.41908
	3	.42827	.42830	.42829	.42828
	4	.40237	.40241	.40241	.40239
	5	.39842	.39840	.39840	.39840
	F	.26887	.26885	.26886	.26886
21	Cyc.	.22597	.22599	.22600	.22598
	1	.41695	.41688	.41688	.41690
	2	.35669	.35670	.35662	.35667
	3	.40787	.40776	.40776	.40779
	4	.42710	.42703	.42701	.42704
	5	.40603	.40610	.40605	.40606
	F	.26744	.26738	.26732	.26738

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Oct. 28, 1980 - 23, 23 Oct 29, 1980 - 24 Work Performed by: J.P

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
22	Cyc.	.22425	.22424	.22427	.22425
	1	.42184	.42187	.42187	.42186
	2	.42532	.42538	.42535	.42535
	3	.41758	.41761	.41760	.41759
	4	.43204	.43212	.43207	.43207
	5	.41660	.41662	.41662	.41661
	F	.26744	.26739	.26734	.26739
23	Cyc.	.22729	.22722	.22717	.22722
	1	.42718	.42717	.42716	.42717
	2	.42275	.42279	.42277	.42277
	3	.41754	.41759	.41756	.41756
	4	.40643	.40645	.40645	.40644
	5	.34622	.34621	.34619	.34620
	F	.26250	.26238	.26237	.26241
24	Cyc.	.21372	.21374	.21377	.21374
	1	.43434	.43445	.43436	.43438
	2	.41397	.41407	.41399	.41401
	3	.42217	.42229	.42219	.42221
	4	.40861	.40870	.40861	.40864
	5	.42818	.42830	.42818	.42822
	F	.27068	.27071	.27071	.27070

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCT. 29, 1980 - 25, 26 OCT 30, 1980 - 27 Work Performed by: J.P.

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
25	Cyc.	.23131	.23138	.23139	.23136
	1	.43947	.43958	.43949	.43951
	2	.42375	.42385	.42377	.42379
	3	.43702	.43709	.43700	.43703
	4	.42009	.42021	.42010	.42013
	5	.42043	.42052	.42043	.42046
	F	.26732	.26736	.26737	.26735
26	Cyc.	.23907	.23906	.23912	.23908
	1	.34918	.34920	.34973	.34937
	2	.35910	.35895	.35932	.35912
	3	.34983	.34975	.35034	.34997
	4	.43210	.43208	.43189	.43202
	5	.35122	.35113	.35137	.35124
	F	.27882	.27881	.27886	.27883
27	Cyc.	.23576	.23577	.23579	.23577
	1	.40350	.40352	.40349	.40350
	2	.35189	.35191	.35199	.35193
	3	.44114	.44116	.44116	.44115
	4	.43878	.43879	.43878	.43878
	5	.41291	.41294	.41295	.41293
	F	.28016	.28021	.28019	.28018

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 30, 1980 Work Performed by: J. Rowland

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
28	Cyc.	.24589	.24594	.24593	.24592
	1	.43607	.43609	.43604	.43606
	2	.42722	.42721	.42725	.42722
	3	.34919	.34914	.34914	.34915
	4	.35638	.35639	.35641	.35639
	5	.34871	.34874	.34874	.34873
	F	.28107	.28109	.28110	.28108
29	Cyc.	.24314	.24317	.24320	.24317
	1	.35752	.35746	.35744	.35747
	2	.34910	.34908	.34910	.34909
	3	.41835	.41832	.41834	.41833
	4	.35791	.35782	.35783	.35785
	5	.34547	.34535	.34539	.34540
	F	.27232	.27238	.27241	.27237
30	Cyc.	.23127	.23130	.23135	.23130
	1	.42836	.42832	.42832	.42833
	2	.34568	.34565	.34563	.34565
	3	.35796	.35794	.35799	.35796
	4	.42629	.42629	.42629	.42629
	5	.41370	.41370	.41365	.41368
	F	.28058	.28062	.28068	.28062

Comment:

Continued To:

Disclosed To And Understood By Me:

Entered By:

Date:

Date:

Date:

Project No. 4891-193 Date of Work: October 31, 1980 Work Performed by: J. Rawlins

Title or Purpose: Brinks Tare Weights Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
31	Cyc.	.23411	.23412	.23422	.23415
	1	.35834	.35842	.35846	.35840
	2	.41497	.41494	.41499	.41496
	3	.42055	.42052	.42057	.42054
	4	.43274	.43273	.43281	.43276
	5	.40671	.40674	.40679	.40674
	F	.28042	.28038	.28044	.28041
32	Cyc.	.23297	.23293	.23303	.23291
	1	.36275	.36277	.36275	.36275
	2	.42473	.42473	.42476	.42474
	3	.43384	.43381	.43384	.43383
	4	.42169	.42172	.42172	.42171
	5	.43904	.43905	.43908	.43905
	F	.27473	.27470	.27476	.27473
33	Cyc.	.23859	.23860	.23871	.23863
	1	.43909	.43910	.43915	.43911
	2	.42699	.42698	.42703	.42700
	3	.41556	.41562	.41565	.41561
	4	.36364	.36370	.36375	.36369
	5	.35164	.35164	.35172	.35166
	F	.27852	.27843	.27848	.27847

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 31, 1980 - 34, 35 Nov 4, 1980 - 36 Beomer Work Performed by: J. Pavalonis

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
34	Cyc.	.23872	.23873	.23878	.23874
	1	.41092	.41098	.41101	.41097
	2	.43342	.43345	.43347	.43344
	3	.35169	.35169	.35175	.35171
	4	.36585	.36588	.36596	.36589
	5	.43621	.43624	.43626	.43623
	F	.27799	.27801	.27805	.27801
35	Cyc.	.23078	.23079	.23089	.23082
	1	.43058	.43061	.43063	.43060
	2	.34135	.34134	.34140	.34136
	3	.43158	.43161	.43161	.43160
	4	.43985	.43984	.43987	.43985
	5	.35668	.35665	.35672	.35668
	F	.27499	.27502	.27502	.27501
36*	Cyc.	.23941	.23941		.23941
	1	.41658	.41652	.411651	.41651
	2	.41578	.41580		.41579
	3	.43592	.43592		.43592
	4	.42480	.42482		.42481
	5	.42840	.42843		.42841
	F	.28260	.28255		.28257

Comment: * WEIGHTS WITHIN .5 mg, ONLY WEIGH TWICE PERTAINS TO ALL WEIGHINGS AFTER NOV 3, 1980

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-293 Date of Work: Nov 4, 1980 Work Performed by: BOOMER

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
37	Cyc.	.24564	.24564		.24564
	1	.42199	.42202		.42200
	2	.40904	.40896	.40895	.40895
	3	.42277	.42276		.42276
	4	.36380	.36376		.36378
	5	.42686	.42685		.42685
	F	.28167	.28165		.28166
38	Cyc.	.23641	.23641		.23641
	1	.39999	.39998		.39998
	2	.42806	.42805		.42805
	3	.41825	.41827		.41826
	4	.43792	.43790		.43791
	5	.42816	.42817		.42816
	F	.28267	.28271		.28269
39	Cyc.	.22853	.22854		.22853
	1	.42963	.42969	.42968	.42968
	2	.42371	.42372		.42371
	3	.41926	.41927		.41926
	4	.34947	.34940	.34948	.34944
	5	.42878	.42881		.42879
	F	.26725	.26729		.26727

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov 5 4 1980 Work Performed by: BOOMER

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
40	Cyc.	.22649	.22642	.22647	.22644
	1	.34588	.34578	.34595	.34586
	2	.41416	.41411		.41413
	3	.34686	.34677	.34683	.34680
	4	.41990	.41985		.41987
	5	.34474	.34472	.34472	.34472
	F	.26499	.26498		.26498
41	Cyc.	.22726	.22715	.22725	.22720
	1	.40976	.40970	.40972	.40971
	2	.34567	.34562		.34564
	3	.34510	.34501	.34506	.34503
	4	.34447	.34451		.34449
	5	.41373	.41369		.41371
	F	.26916	.26914		.26915
42	Cyc.	.22180	.22177		.22178
	1	.42017	.42013		.42015
	2	.40792	.40787		.40789
	3	.41518	.41513		.41515
	4	.34406	.34396	.34397	.34396
	5	.41773	.41773		.41773
	F	.26852	.26845	.26847	.2684

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov. 7, 1980 Work Performed by: J. Rawlins

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ GRAMS One TARE	~~Final~~ GRAMS Two TARE	~~Final~~ GRAMS Three TARE	GRAMS Average
43 ✓	Cyc.	.22802	.22793		.22797
	1	.42000	41995		.41997
	2	.34608	.34606		.34607
	3	.42003	.41999		.42001
	4	.33698	.33700		.33699
	5	.41255	.41250		.41252
	F	.26566	.26560		.26563
44 ✓	Cyc.	.22333	.22329		.22331
	1	.34435	.34430		.34432
	2	.40869	.40867		.40868
	3	.33740	.33738		.33739
	4	.43532	.43530		.43531
	5	.33963	.33959		.33961
	F	.26795	.26788		.26791
45 ✓	Cyc.	.22232	.22224		.22228
	1	.39667	.39663		.39665
	2	.34045	.34041		.34043
	3	.41139	.41133		.41136
	4	.34806	.34795		.34800
	5	.41654	.41649		.41651
	F	.26713	.26701		.26707

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-293 Date of Work: Nov 7, 1980 - 46, 47 Work Performed by: [illegible]

Title or Purpose: BRINKS TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
46 ✓	Cyc.	.22548	.22540		.22544
	1	.34119	.34121		.34120
	2	.34378	.34378		.34378
	3	.34072	.34061		.34066
	4	.42374	.42366		.42370
	5	.34623	.34622		.34622
	F	.26272	.26263		.26267
47 ✓	Cyc.	.21958	.21949		.21953
	1	.42239	.42232		.42235
	2	.40535	.40531		.40533
	3	.41511	.41504		.41507
	4	.41990	.41983		.41986
	5	.41596	.41595		.41595
	F	.26392	.26382		.26387
	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
48	Cyc.	.22661	BD	12/2/80	.22654	BD	12/2/80	.22656	BD	12/2/80	.22657
	1	.34267			.34241			.34246			.34243
	2	.41286			.41296			.41290			.41293
	3	.41698			.41700						.41699
	4	.40410			.40425			.40420			.40422
	5	.34468			.34415			.34420			.34417
	F	.25965			.25944			.25950			.25947
49	Cyc.	.24477	BD	12/4/80	.24482	BD	12/4/80		BD	12/4/80	.24480
	1	.42884			.42989						.42887
	2	.44519			.44521						.44520
	3	.42878			.42883						.42881
	4	.42857			.42862						.42860
	5	.44376			.44381						.44378
	F	.28191			.28198			.28196			.28197
50	Cyc.	.23091			.23095						.23093
	1	.44852			.44858						.44855
	2	.42353			.42360			.42363			.42362
	3	.34633			.34627						.34630
	4	.36251			.36258			.36260			.36259
	5	.42873			.42880			.42875			.42878
	F	.28871			.28876						.28874
51	Cyc.	.22943	BD	12/4/80	.22943	BD	12/4/80		BD	12/4/80	.22943
	1	.44295			.44296						.44296
	2	.42781			.42782						.42782
	3	.42469			.42471						.42470
	4	.43955			.43961						.43958
	5	.41121			.41121						.41121
	F	.28264			.28261						.28263

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
52	Cyc.	.23512	BO	12/4/80	.23511	BO	12/4/80		BO	12/4/80	.23512
	1	.36424			.36424						.36424
	2	.43095			.43095						.43095
	3	.40337			.40337						.40337
	4	.43451			.43457						.43454
	5	.43037			.43040						.43039
	F	.28440			.28438						.28439
53	Cyc.	.26790	BO	12/5/80	.26786	BO	12/5/80		BO	12/5/80	.26788
	1	.44846			.44845						.44846
	2	.35618			.35618						.35618
	3	.45493			.45493						.45493
	4	.41767			.41770						.41769
	5	.45193			.45199						.45196
	F	.23645			.23645						.23645
54	Cyc.	~~.22352~~	~~BO~~	~~12/5/80~~		~~BO~~	~~12/5/80~~		~~BO~~	~~12/5/80~~	
	1	~~.31344~~									
	2	~~.35071~~									
	3	~~.37455~~									
	4	~~.43374~~									
	5	~~.44883~~									
	F	~~.23471~~									
	Cyc.										
	1										
	2										
	3										
	4										
	5										
	F										

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
54	Cyc.	.24371	DW	1/7/81	0.24376	Qa	1/7/81				.24373
	1	.35748			0.35746						.35747
	2	.36641			0.36641						.36641
	3	.34724			0.34729						.34726
	4	.36196			0.36196						.36196
	5	.36083			0.36086						.36085
	F	.27118			0.27122						.27120
55	Cyc.	.24133	DW	1/7/81	0.24135	Qa	1/7/81				.24134
	1	.35396			0.35396						.35396
	2	.37313			0.37315						.37314
	3	.34420			0.34420						.34420
	4	.35869			0.35871						.35870
	5	.34934			0.34936						.34935
	F	.28413			0.28416						.28415
56	Cyc.	.22701	DW	1/7/81	0.22703	Qa	1/7/81				.22702
	1	.36032			0.36036						.36034
	2	.36142			0.36143						.36143
	3	.36623			0.36626						.36625
	4	.35565			0.35570						.35568
	5	.35588			0.35591						.35590
	F	.27567			0.27570						.27569
57	Cyc.	.23769	DW	1/7/81	0.23772	Qa	1/7/81				.23771
	1	.35724			0.35724						.35724
	2	.44556			0.44557	Qa					.44557
	3	.42586			0.42586						.42586
	4	.35883			0.35883						.35883
	5	.41919			0.41921						.41920
	F	.28491			0.28494						.28493

Remarks:

Project No. 4891-L93 Date of Work: OCT. 25, 1980-5 Work Performed by: J.P.

Title or Purpose: BRINKS FINAL WEIGHT Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
4	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				
5	Cyc.	.24403	.24403	.24402	.24402
	1	.33804	.33801	.33802	.33802
	2	.40252	.40249	.40255	.40252
	3	.40062	.40061	.40064	.40062
	4	.41440	.41438	.41441	.41439
	5	.41255	.41254	.41256	.41255
	F	.26024	.26026	.26028	.26026
6	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				

Comment: 4+6 BAD RUNS

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 25, 1980 - 7 OCTOBER 27, 1980 - 8, 9 Work Performed by: JP.

Title or Purpose: BRINKS FINAL WEIGHT Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
7	Cyc.	.25954	.25957	.25959	.25956
	1	.40671	.40672	.40672	.40671
	2	.41887	.41888	.41891	.41888
	3	.41847	.41845	.41850	.41847
	4	.40394	.40391	.40392	.40392
	5	.38210	.38208	.38209	.38209
	F	.25785	.25785	.25784	.25784
8	Cyc.	.28568	.28564	.28559	.28563
	1	.41538	.41535	.41538	.41537
	2	.41417	.41409	.41414	.41413
	3	.40426	.40422	.40424	.40424
	4	.39973	.39970	.39971	.39971
	5	.39511	.39507	.39506	.39508
	F	.25316	.25315	.25315	.25315
9	Cyc.	.26031	.26030	.26030	.26030
	1	.32985	.32978	.32981	.32981
	2	.41598	.41593	.41594	.41595
	3	.41267	.41261	.41264	.41264
	4	.40840	.40834	.40836	.40836
	5	.37695	.37692	.37693	.37693
	F	.24497	.24498	.24498	.24497

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 28, 1980-10 OCTOBER 29, 1980-11 Work Performed by: J.P

Title or Purpose: BRINKS FINAL WEIGHT Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
10	Cyc.	.25651	.25648	.25641	.25646
	1	.40628	.40638	.40640	.40635
	2	.39674	.39686	.39682	.39680
	3	.41345	.41351	.41348	.41348
	4	.39839	.39840	.39839	.39839
	5	.40985	.40990	40987	.40987
	F	.25206	.25207	.25205	.25206
11	Cyc.	.45079	.45080	.45077	.45078
	1	.41743	.41752	.41744	.41746
	2	.41476	.41486	.41475	.41479
	3	.39998	.40008	.39998	.40001
	4	.42321	.42332	.42321	.42324
	5	.39608	.39615	.39608	.39610
	F	.24681	.24686	.24686	.24684
12*	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				

Comment: RUN #12 - BAD RUN - FINAL FILTERS NOT WEIGHED

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891-L93 Date of Work: OCT. 29, 1980 - 13, 15 NOV 4, 1980 - 14 Booker Work Performed by: J.P.

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
13	Cyc.	.41063	.41079	.41068	.41070
	1	.40047	.40058	.40047	.40050
	2	.42327	.42337	.42328	.42330
	3	.40130	.40139	.40131	.40133
	4	.41360	.41371	.41361	.41364
	5	.37499	.37508	.37499	.37502
	F	.26137	.26140	.26143	.26140
14*	Cyc.	.41846	.41832	.41838	.41835
	1	.41222	.41220		.41221
	2	.39985	.39983		.39984
	3	.41074	.41071		.41072
	4	.40806	.40804		.40805
	5	.33166	.33163		.33164
	F	.26215	.26214		.26214
15	Cyc.	.51525	.51529	.51535	.51529
	1	.35090	.35087	.35088	.35088
	2	.34610	.34608	.34618	.34612
	3	.34354	.34353	.34359	.34355
	4	.33694	.33688	.33693	.33691
	5	.34993	.34990	.34998	.34993
	F	.25999	.26006	.26003	.26002

Comment: WEIGHTS WITHIN .5 MG, ONLY WEIGH TWICE
PERTAINS TO ALL WEIGHINGS AFTER NOV 3, 1980

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCT. 29, 1980 - 17 / OCT. 30 1980 - 18 Work Performed by: JR

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
16 *	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				
17	Cyc.	.61713	.61723	.61728	.61721
	1	.36514	.36516	.36522	.36517
	2	.35359	.35357	.35356	.35357
	3	.35008	.35007	.35012	.35009
	4	.34003	.34001	.34009	.34004
	5	.35272	.35269	.35266	.35269
	F	.26133	.26136	.26135	.26134
18	Cyc.	.50057	.50052	.50055	.50054
	1	.42321	.42323	.42322	.42322
	2	.41885	.41884	.41885	.41884
	3	.33894	.33897	.33891	.33894
	4	.36081	.36072	.36072	.36075
	5	.34676	.34678	.34676	.34676
	F	.25732	.25735	.25735	.25734

Comment: * 16 - BAD RUN - FINAL FILTERS NOT WEIGHED

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 30, 1980 Work Performed by: J. Pourbaix

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
19	Cyc.	.46490	.46488	.46493	.46490
	1	.35254	.35253	.35255	.35254
	2	.34659	.34653	.34657	.34656
	3	.34253	.34251	.34249	.34251
	4	.41726	.41724	.41725	.41725
	5	.34309	.34303	.34295	.34302
	F	.26849	.26857	.26857	.26854
20	Cyc.	.61542	.61548	.61521	.61537
	1	.43926	.43923	.43923	.43924
	2	.42284	.42282	.42284	.42283
	3	.42946	.42945	.42946	.42945
	4	.40299	.40296	.40297	.40297
	5	.39897	.39896	.39898	.39897
	F	.26961	.26963	.26968	.26964
21	Cyc.	.45853	.45860	.45867	.45860
	1	.42583	.42584	42572	.42579
	2	.36000	.36009	.36009	.36006
	3	.40854	.40859	.40856	.40856
	4	.42743	.42746	.42746	.42745
	5	.40668	.40670	.40670	.40669
	F	.26767	.26770	.26768	.26768

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov 3, 1980 Work Performed by: BOOMER

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
22	Cyc.	.57733	.57730	.57725	.57729
	1	.43707	.43707	.43701	.43705
	2	.43165	.43164	.43159	.43162
	3	.41904	.41902	.41899	.41901
	4	.43292	.43292	.43290	.43291
	5	.41780	.41779	.41775	.41778
	F	.26807	.26808	.26808	.26807
23	Cyc.	.48040	.48060	.48054	.48051
	1	.43805	.43806	.43803	.43804
	2	.42701	.42702	.42698	.42700
	3	.41874	.41876	.41870	.41873
	4	.40719	.40721	.40715	.40718
	5	.34607	.34605	.34594	.34602
	F	.26273	.26275	.26276	.26274
24*	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				

Comment: 24- BAD RUN - FINAL WEIGHTS NOT RECORDED

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4691-L93 Date of Work: Nov 3, 1980 4, 1980 - 26 25+27 Work Performed by: BOOMER

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
25	Cyc.	.47652	.47643	.47637	.47644
	1	.44910	.44911	.44906	.44909
	2	.42689	.42689	.42681	.42686
	3	.43825	.43827	.43820	.43824
	4	.42090	.42088	.42083	.42087
	5	.42106	.42106	.42102	.42104
	F	.26875	.26877	.26874	.26875
26	Cyc.	.45234	.45226	.45231	.45228
	1	.35947	.35945	.	.35946
	2	.36266	.36257	.36256	.36256
	3	.35107	.35106		.35106
	4	.43256	.43255		.43255
	5	.35217	.35215		.35216
	F	.28014	.28010		.28012
27	Cyc.	.23666	.23667	.23668	.23667
	1	.40385	.40387	.40381	.40384
	2	.35142	.35139	.35143	.35141
	3	.44154	.44154	.44149	.44152
	4	.43909	.43910	.43903	.43907
	5	.41331	.41332	.41327	.41330
	F	.28032	.28035	.28034	.28033

Comment: 27 - BLANK RUN

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891-L-93 Date of Work: Nov 4, 1980 Work Performed by: BOOMER

Title or Purpose: BRINES FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final Grams One	Final Grams Two	Final Grams Three	Grams Average
28	Cyc.	.39142	.39145		.39143
	1	.44897	.44892		.44894
	2	.43176	.43176		.43176
	3	.35019	.35014		.35016
	4	.35702	.35693	.35712	.35702
	5	.34916	.34911		.34913
	F	.28146	.28141		.28143
29	Cyc.	.46558	.46547	.46554	.46550
	1	.36800	.36791	.36786	.36788
	2	.35358	.35347	.35353	.35350
	3	.41953	.41944	.41952	.41948
	4	.35843	.35838		.35840
	5	.34577	.34573		.34575
	F	.27296	.27289	.27293	.27291
30	Cyc.	.52974	.52973		.52973
	1	.44000	.43996		.43998
	2	.34932	.34931		.34931
	3	.35900	.35898		.35899
	4	.42683	.42684		.42683
	5	.41430	.41428		.41429
	F	.28189	.28185		.28187

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 45412-93 Date of Work: Nov 4, 1980-31 Nov 7, 1980 32, 33 Work Performed by: Boomer

Continued From:

Title or Purpose: Brines Final Weights

Set No.	Filter No.	Final One (Grams)	Final Two (Grams)	Final Three (Grams)	Average (Grams)
31	Cyc.	.51172	.51163	.51174	.51168
	1	.37458	.37450	.37457	.37453
	2	.41990	.41982	.41991	.41986
	3	.42147	.42138	.42148	.42143
	4	.43333	.43325	.43335	.43330
	5	.40715	.40708	.40717	.40712
	F	.28148	.28143	.28146	.28144
32	Cyc.	.47044	.47036		.47040
	1	.37264	.37268		.37266
	2	.42820	.42824		.42822
	3	.43495	.43500		.43497
	4	.42239	.42240		.42239
	5	.43961	.43963		.43962
	F	.27575	.27579		.27577
33	Cyc.	.52123	.52119		.52121
	1	.44401	.44405		.44403
	2	.43804	.43804		.43804
	3	.41656	.41657		.41656
	4	.36415	.36419		.36417
	5	.35205	.35205		.35205
	F	.27898	.27898		.27898

Comment:

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891-L93 Date of Work: Nov 7, 1980 - 34 Work Performed by: J. Pawlowski

Title or Purpose: BRINKS FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
34	Cyc.	.23920	.23914		.23917
	1	.41153	.41151		.41152
	2	.43370	.43368		.43369
	3	.35211	.35204		.35207
	4	.36636	.36635		.36635
	5	.43646	.43642		.43644
	F	.27828	.27818		.27823
	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				
	Cyc.				
	1				
	2				
	3				
	4				
	5				
	F				

Comment 34 BLANK RUN

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
35	Cyc.	.28029	BD	12/3/80	.28030	BD	12/4/80				.28030
	1	.43396			.43390						.43393
	2	.35716			.35710						.35713
	3	.43457			.43451						.43454
	4	.44121			.44115						.44118
	5	.35685			.35681						.35683
	F	.27362			.27360						.27361
36	Cyc.	.27393	BD	12/3/80	.27388	BD	12/4/80				.27391
	1	.42327			.42327						.42327
	2	.42012			.42012						.42012
	3	.43699			.43699						.43699
	4	.42411			.42413						.42412
	5	.42811			.42816						.42814
	F	.28120			.28115						.28118
	Cyc.	.27419	BD	12/4/80	.27425	BD	12/4/80		BD	12/4/80	.27422
37	1	.42450			.42455						.42453
	2	.41758			.41756						.41757
	3	.42526			.42530						.42528
	4	.36496			.36499						.36498
	5	.42744			.42747						.42746
	F	.28164			.28170						.28167
38	Cyc.	.29538	BD	12/4/80	.29534	BD	12/4/80		BD	12/4/80	.29536
	1	.40118			.40123						.40121
	2	.43925			.43931						.43928
	3	.42534			.42536						.42535
	4	.43951			.43953						.43952
	5	.43134			.43136						.43135
	F	.28262			.28261						.28262

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
39	Cyc.	.27514	BD	12/5/80	.27508	BD	12/5/80		BD	12/5/80	.27511
	1	.43331			.43335						.43333
	2	.43983			.43986						.43985
	3	.42286			.42286						.42286
	4	.35032			.35031						.35032
	5	.42948			.42948						.42948
	F	.26672			.26666						.26669
40	Cyc.	.24903	BD	12/5/80	.24903	BD	12/5/80		BD	12/5/80	.24903
	1	.35210			.35208						.35209
	2	.41905			.41905						.41905
	3	.34881			.34879						.34880
	4	.42084			.42085						.42084
	5	.34556			.34557						.34556
	F	.26443			.26438						.26440
41	Cyc.	.26573	JP	12-8-80	.26552	JP	12-8-80	.26557	JP	12-8-80	.26554
	1	.41237			.41225			.41230			.41227
	2	.35447			.35415			.35418			.35416
	3	.35265			.35263						.35264
	4	.34534			.34533						.34533
	5	.41420			.41415						.41417
	F	.26932			.26928						.26930
42	Cyc.	.24771	JP	12-8-80	.24764	JP	12-8-80	.24768	JP	12-8-80	.24766
	1	.42220			.42212			.42215			.42213
	2	.41713			.41708						.41710
	3	.42263			.42258						.42260
	4	.34508			.34500			.34503			.34501
	5	.41838			.41833						.41835
	F	.26868			.26865						.26866

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
43	Cyc.	.23366	JP	12-9-80	.23365	JP	12-9-80				.23365
	1	.42190			.42199			.42195	JP	12-9-80	.42197
	2	.34815			.34817						.34816
	3	.42054			.42069			.42065	JP	12-9-80	.42067
	4	.33727			.33725						.33726
	5	.41298			.41309			41306			.41307
	F	.26474			.26470						.26472
44 *	Cyc.	.22260	JP	12-10-80	.22258	JP	12-10-80				.22259
	1	.34448			.34448						.34448
	2	.40889			.40885						.40887
	3	.33753			.33756						.33754
	4	.43557			.43559						.43558
	5	.33972			.33976						.33974
	F	.26711			.26714						.26712
45 *	Cyc.	.22140	JP	12-9-80	.22142	JP	12-9-80				.22141
	1	.39677			.39687			.39683	JP	12-9-80	.39685
	2	.34068			.34071						.34069
	3	.41147			.41152						.41149
	4	.34807			.34811						.34809
	5	.41661			.41672			41667			.41669
	F	.26657			.26638			.26642	JP	12-9-80	.26640
46 *	Cyc.	.22481	JP	12-10-80	.22471	JP	12-10-80	.22475	JP	12-10-80	.22473
	1	.34130			.34140			.34135			.34137
	2	.34394			.34399						.34396
	3	.34065			.34072			.34070			.34071
	4	.42377			.42382						.42379
	5	.34642			.34647						.34644
	F	.26170			.26170						.26170

Remarks: * #44, 45, 46 - BLANKS

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
47	Cyc.										
	1										
	2										
	3										
	4										
	5										
	F										
48	Cyc.	.26690	TW	1/12/81	0.26692	Qo	1/12/81				0.26691
	1	.34596			0.34596						0.34596
	2	.42644			0.42640						0.42642
	3	.41958			0.41954						0.41956
	4	.40510			0.40506						0.40508
	5	.34500			0.34497						0.34499
	F	.25937			0.25939						0.25938
49	Cyc.	.27832	TW	1/12/81	0.27830	Qo	1/12/81				0.27831
	1	.43683			0.43680						0.43682
	2	.45099			0.45097						0.45098
	3	.43069			0.43066						0.43068
	4	.42940			0.42938						0.42939
	5	.44438			0.44434						0.44436
	F	.28170			0.28173						0.28172
50	Cyc.	.25406	TW	1/12/81	0.25408	Qo	1/12/81				0.25407
	1	.45290			0.45289						0.45290
	2	.42819			0.42816						0.42818
	3	.34825			0.34822						0.34824
	4	.36306			0.36304						0.36305
	5	.42881			0.42881						0.42881
	F	.28843			0.28845						0.28844

Remarks:

FW

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
51	Cyc.	.26012	[illegible]	[illegible]	0.26015	OP	1/12/81				.26014
	1	.44514			0.44510						.44512
	2	.43699			0.43694						.43697
	3	.42734			0.42730						.42732
	4	.44122			0.44120						.44121
	5	.41169			0.41166						.41168
	F	.28295			0.28298						.28297
52	Cyc.	.28516									
	1	.37270									
	2	.43666									
	3	.40533									
	4	.43527									
	5	.43096									
	F	.28485									
53	Cyc.	.26490									
	1	.45169									
	2	.36085									
	3	.45926									
	4	.41896									
	5	.45234									
	F	.26798									
54	Cyc.	.24376									
	1	.35736									
	2	.36628									
	3	.34729									
	4	.36188									
	5	.36077									
	F	.27119									

Remarks:

F-W

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
55	Cyc.	.24137	[illegible]	11/12/80							
	1	.35385									
	2	.37304									
	3	.34411									
	4	.35865									
	5	.34926									
	F	.28428									
56	Cyc.										
	1										
	2										
	3										
	4										
	5										
	F										
57	Cyc.	.23776									
	1	.35717									
	2	.44566									
	3	.42592									
	4	.35885									
	5	.41926									
	F	.28496									
	Cyc.										
	1										
	2										
	3										
	4										
	5										
	F										

Remarks:

Project No. 4891-L93 Date of Work: OCTOBER 21, 1980 Work Performed by: AP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
34	Pres.	.49912	.49911	.49914	.49912
	0	.45461	.45468	.45462	.45463
	1	.46015	.46013	.46008	.46012
	2	.43994	.43994	.43992	.43993
	3	.42743	.42740	.42741	.42741
	4	.45694	.45685	.45689	.45689
	5	.44169	.44170	.44166	.44168
	6	.45404	.45402	.45408	.45404
	7	.42650	.42645	.42651	.42648
	F	.45022	.45026	.45020	.45022
35	Pres.	.49185	.49187	.49186	.49186
	0	.43213	.43222	.43218	.43217
	1	.44798	.44799	.44802	.44799
	2	.45527	.45527	.45531	.45528
	3	.45187	.45187	.45191	.45188
	4	.45656	.45656	.45660	.45657
	5	.46466	.46462	.46468	.46465
	6	.47134	.47131	.47132	.47132
	7	.46438	.46437	.46440	.46438
	F	.48137	.48139	.48148	.48141
36	Pres.	.52652	.52623	.52622	.52632
	0	.43952	.43949	.43949	.43950
	1	.42973	.42973	.42973	.42973
	2	.47336	.47338	.47341	.47338
	3	.43080	.43083	.43088	.43083
	4	.44070	.44073	.44079	.44074
	5	.42785	.42794	.42795	.42791
	6	.44032	.44032	.44039	.44034
	7	.44213	.44215	.44222	.44216
	F	.44082	.44082	.44082	.44082

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 22, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
37	Pres.	.52015	.52014	.52012	.52013
	0	.44959	.44951	.44957	.44955
	1	.44545	.44543	.44543	.44543
	2	.44001	.44002	.44005	.44002
	3	.44310	.44314	.44313	.44312
	4	.45789	.45789	.45791	.45789
	5	.45845	.45846	.45851	.45847
	6	.45470	.45470	.45469	.45469
	7	.45723	.45724	.45727	.45724
	F	.49693	.49697	.49699	.49696
38	Pres.	.49714	.49711	.49714	.49713
	0	.45121	.45120	.45128	.45123
	1	.44392	.44396	.44395	.44394
	2	.46065	.46065	.46069	.46066
	3	.44464	.44469	.44471	.44468
	4	.45169	.45164	.45175	.45171
	5	.43510	.43514	.43519	.43514
	6	.44591	.44589	.44595	.44591
	7	.42895	.42901	.42898	.42898
	F	.44224	.44224	.44231	.44226
39	Pres.	.48414	.48413	.48416	.48414
	0	.44677	.44672	.44680	.44676
	1	.45159	.45162	.45163	.45161
	2	.48243	.48246	.48246	.48245
	3	.46166	.46169	.46173	.46169
	4	.46470	.46474	.46474	.46472
	5	.46023	.46024	.46027	.46024
	6	.46705	.46708	.46713	.46708
	7	.48617	.48617	.48618	.48617
	F	.49427	.49429	.49430	.49428

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 22, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
40	Pres.	.47772	47772	.47772	.47772
	0	.45685	.45685	.45680	.45683
	1	.44031	.44033	.44029	.44030
	2	.47515	.47510	.47510	.47511
	3	.43524	.43521	.43515	.43520
	4	.46725	.46719	.46714	.46719
	5	.43224	.43222	.43214	.43220
	6	.46319	.46314	.46314	.46315
	7	.44689	.44686	.44683	.44686
	F	.57600	.57591	.57592	.57594
41	Pres.	.51735	.51733	.51736	.51734
	0	.42953	.42964	.42954	.42957
	1	.44759	.44756	.44746	.44753
	2	.46693	.46689	.46676	.46686
	3	.45518	.45513	.45502	.45511
	4	.45282	.45277	.45262	.45273
	5	.42784	.42782	.42770	.42778
	6	.42460	.42455	.42446	.42453
	7	.43934	.43931	.43917	.43927
	F	.46267	.46266	.46253	.46262
42	Pres.	.51901	.51898	.51905	.51901
	0	.44906	.44904	.44905	.44905
	1	.48828	.48823	.48815	.48822
	2	.47911	.47903	.47897	.47903
	3	.47547	.47542	.47533	.47540
	4	.45861	.45858	.45848	.45855
	5	.45805	.45799	.45794	.45799
	6	.46406	.46397	.46391	.46398
	7	.43239	.43234	.43227	.43233
	F	.46160	.46152	.46149	.46153

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 23, 1980 Work Performed by: 47

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
43	Pres.	.50699	.50697	.50702	.50699
	0	.44515	.44520	.44515	.44516
	1	.44576	.44574	.44563	.44571
	2	.45485	.45480	.45469	.45478
	3	.44708	.44706	.44697	.44703
	4	.45149	.45148	.45142	.45146
	5	.45204	.45197	.45196	.45199
	6	.44246	.44246	.44244	.44245
	7	.45589	.45585	.45576	.45583
	F	.45646	.45657	.45646	.45649
44	Pres.	.47213	.47210	.47213	.47212
	0	.47497	.47495	.47492	.47494
	1	.47899	.47898	.47888	.47895
	2	.47490	.47484	.47474	.47482
	3	.48036	.48030	.48022	.48029
	4	.45029	.45025	.45017	.45023
	5	.47621	.47619	.47608	.47616
	6	.48600	.48598	.48587	.48595
	7	.47454	.47448	.47441	.47447
	F	.46013	.46011	.46003	.46009
45	Pres.	.48615	.48611	.48614	.48613
	0	.45255	.45253	.45245	.45251
	1	.45501	.45500	.45487	.45496
	2	.46908	.46906	.46894	.46902
	3	.47083	.47080	.47076	.47079
	4	.46486	.46483	.46472	.46480
	5	.44412	.44406	.44398	.44405
	6	.43620	.43615	.43605	.43613
	7	.45652	.45651	.45640	.45647
	F	.44690	.44692	.44684	.44688

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 24, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One	~~Final~~ TARE Two	~~Final~~ TARE Three	Average
46	Pres.	.47020	.47015	.47012	.47015
	0	.46682	.46697	.46698	.46692
	1	.45737	.45743	.45742	.45740
	2	.46414	.46419	.46423	.46418
	3	.42092	.42099	.42102	.42097
	4	.43984	.43987	.43990	.43987
	5	.44974	.44984	.44985	.44981
	6	.45587	.45578	.45591	.45585
	7	.44537	.44539	.44544	.44540
	F	.57024	.57022	.57027	.57024
47	Pres.	.51009	.51013	.51016	.51012
	0	.45553	.45556	.45561	.45556
	1	.44508	.44513	.44511	.44510
	2	.43386	.43388	.43389	.43387
	3	.42511	.42511	.42516	.42512
	4	.43804	.43805	.43806	.43805
	5	.42525	.42522	.42527	.42524
	6	.43404	.43404	.43406	.43404
	7	.42820	.42819	.42822	.42820
	F	.54482	.54487	.54489	.54486
48	Pres.	.50217	.50209	.50208	.50211
	0	.42597	.42597	.42595	.42596
	1	.41486	.41490	.41490	.41488
	2	.42047	.42049	.42051	.42049
	3	.42082	.42083	.42081	.42082
	4	.42442	.42444	.42446	.42444
	5	.44883	.44883	.44883	.44883
	6	.42924	.42928	.42924	.42925
	7	.41829	.41830	.41832	.41830
	F	.55077	.55069	.55066	.55070

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
49	Pres	.50725	BD	12/2/80	.50721	BD	12/2/80		BD	12/2/80	.50723
	0	.45157			.45152						.45154
	1	.44056			.44058						.44057
	2	.45103			.45100						.45101
	3	.44091			.44087						.44089
	4	.45493			.45488						.45490
	5	.45064			.45059						.45061
	6	.44970			.44969						.44970
	7	.46355			.46357						.46356
	F	.55438			.55432						.55435
50	Pres	.51055			.51056						.51056
	0	.46077			.46075						.46076
	1	.45516			.45510						.45513
	2	.46266			.46260						.46263
	3	.46302			.46289			.46294			.46291
	4	.46024			.46020						.46022
	5	.45991			.45989						.45990
	6	.45573			.45570						.45571
	7	.44749			.44742			.44745			.44743
	F	.57172			.57168						.57170
51	Pres	.49701			.49700						.49701
	0	.45686			.45680						.45683
	1	.44124			.44118						.44121
	2	.45323			.45318						.45320
	3	.44052			.44048						.44050
	4	.46520			.46515						.46517
	5	.44796			.44790						.44793
	6	.45497			.45490			.45492			.45491
	7	.47320			.47316						.47318
	F	.58886			.58881						.58883

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
52	Pres	.47875	BD	12/2/80	.47869	BD	12/2/80		BD	12/2/80	.47872
	0	.46771			.46769						.46770
	1	.44166			.44160						.44163
	2	.48442			.48438						.48440
	3	.44007			.44000			.44004			.44002
	4	.46666			.46661						.46663
	5	.44481			.44477						.44479
	6	.45439			.45433						.45436
	7	.43709			.43703						.43706
	F	.53984			.53985						.53985
53	Pres	.47409			.47405						.47407
	0	.45075			.45070						.45072
	1	.42699			.42694						.42696
	2	.46750			.46751						.46751
	3	.45367			.45365						.45366
	4	.46007			.46002						.46004
	5	.42510			.42506						.42508
	6	.43695			.43691						.43693
	7	.44585			.44580						.44582
	F	.53176			.53172						.53174
54	Pres	.48118	BD	12/3/80	.48113	BD	12/3/80				.48116
	0	.44635			.44640						.44638
	1	.43479			.43484						.43482
	2	.44271			.44272						.44272
	3	.44979			.44983						.44981
	4	.43120			.43125						.43123
	5	.44502			.44503						.44503
	6	.44730			.44736						.44733
	7	.42093			.42099						.42096
	F	.53364			.53368						.53362

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
55	Pres	.47475	BD	12/3/80	.47479	BD	12/3/80		BD	12/3/80	.47477
	0	.44059			.44051			.44053			.44052
	1	.42987			.42985						.42986
	2	.46682			.46680						.46681
	3	.45630			.45631						.45631
	4	.44491			.44495						.44492
	5	.45230			.45236						.45233
	6	.48195			.48190						.48193
	7	.45718			.45717						.45718
	F	.53791			.53793						.53792
56	Pres	.48620			.48625						.48623
	0	.44822			.44829			.44827			.44828
	1	.42736			.42730						.42733
	2	.46451			.46445						.46448
	3	.45679			.45675						.45677
	4	.45126			.45124						.45125
	5	.42986			.42980						.42983
	6	.45646			.45640						.45643
	7	.44248			.44240			.44244			.44242
	F	.53070			.53062			.53064			.53063
57	Pres	.47720			.47715						.47718
	0	.45140			.45132			.45135			.45133
	1	.42825			.42826						.42826
	2	.44980			.44981						.44981
	3	.43390			.43383			.43384			.43384
	4	.45165			.45167						.45166
	5	.44151			.44148						.44150
	6	.45227			.45220			.45223			.45222
	7	.45170			.45176						.45173
	F	.54548			.54542						.54545

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
58	Pres	.48614	BD	12/3/80	.48610	BD	12/3/80		BD	12/3/80	.48612
	0	.43662			.43658						.43660
	1	.42402			.42400						.42401
	2	.44004			.43998						.44001
	3	.43326			.43320						.43323
	4	.43969			.43962			.43964			.43963
	5	.42922			.42916						.42919
	6	.44371			.44364			.44365			.44365
	7	.43137			.43130			.43134			.43132
	F	.56986			.56981						.56984
59	Pres	.48927			.48922						.48925
	0	.43816			.43810						.43813
	1	.42366			.42364						.42365
	2	.43956			.43952						.43954
	3	.41845			.41840						.41843
	4	.43961			.43960						.43961
	5	.41847			.41841						.41844
	6	.43400			.43395						.43398
	7	.42458			.42450			.42452			.42451
	F	.54146			.54140						.54143
60	Pres	.47144	BD	12/4/80	.47146	BD	12/4/80		BD	12/4/80	.47145
	0	.44420			.44415						.44418
	1	.42544			.42540						.42542
	2	.44317			.44310			.44313			.44312
	3	.42362			.42354			.42356			.42355
	4	.43787			.43780			.43781			.43781
	5	.42156			.42146			.42148			.42147
	6	.43918			.43923						.43921
	7	.42307			.42311						.42309
	F	.56441			.56451			.56455			.56453

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
61	Pres	.50482	BD	12/4/80	.50472	BD	12/4/80	.50475	BD	12/4/80	.50474
	0	.44160			.44159						.44160
	1	.42343			.42340						.42342
	2	.44235			.44233						.44234
	3	.42406			.42405						.42406
	4	.43881			.43877						.43879
	5	.42191			.42190						.42191
	6	.44078			.44078						.44078
	7	.42478			.42476						.42477
	F	.54834			.54841			.54839			.54840
62	Pres	.50753			.50748						.50751
	0	.45000			.45000						.45000
	1	.43515			.43521						.43518
	2	.44983			.44987						.44985
	3	.43737			.43741						.43739
	4	.44762			.44765						.44764
	5	.43248			.43251						.43250
	6	.44974			.44980						.44977
	7	.45097			.45100						.45099
	F	.57097			.57100						~~.45099~~ .57099
63	Pres	.48060	JP	12-8-80	.48072	JP	12-8-80	.48067	JP	12-8-80	0.48069
	0	.41153			.41160			.41155			0.41157
	1	.41304			.41311			.41307			0.41309
	2	.41381			.41386						0.41383
	3	.42362			.42365						0.42363
	4	.40956			.40958						0.40957
	5	.39097			.39095						0.39096
	6	.41296			.41301						0.41298
	7	.39288			.39286						0.39287
	F	.48337			.48336						0.48337

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
64	Pres	.48184	JP	12-8-80	.48179	JP	12-8-80				0.48181
	0	.40838			.40834						0.40836
	1	.40201			.40203						0.40202
	2	.41081			.41085						0.41083
	3	.41651			.41656						0.41653
	4	.41941			.41946						0.41943
	5	.39870			.39866						0.39868
	6	.42121			.42130			.42125	JP	12-8-80	0.42127
	7	.40424			.40428						0.40426
	F	.49250			.49246						0.49248
65	Pres	.48498	JP	12-8-80	.48502						0.48500
	0	.41120			.41117						0.41118
	1	.42054			.42057						0.42055
	2	.41098			.41099						0.41099
	3	.41172			.41171						0.41172
	4	.42870			.42871						0.42871
	5	.43953			.43951						0.43952
	6	.43522			.43527						0.43524
	7	.42372			.42373						0.42373
	F	.46472			.46467						0.46469
66	Pres	.47870	DW	1/6/81	.47869	DW	1/6/80				0.47870
	0	.42581			.42577						0.42579
	1	.41216			.41218						0.41217
	2	.41401			.41402						0.41402
	3	.39617			.39618						0.39618
	4	.41616			.41614						0.41615
	5	.39999			.39997						0.39998
	6	.41985			.41984						0.41985
	7	.41053			.41051						0.41052
	F	.48005			.48007						0.48006

Remarks:

TABB

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
67	Pres	.50275	DW	1/6/81	.50277	DW	1/6/81		DW	1/6/81	0.50276
	0	.42538			.42549			.42546			0.42548
	1	.41363			.41365						0.41364
	2	.42583			.42580						0.42582
	3	.40528			.40530						0.40529
	4	.41741			.41746						0.41744
	5	.40742			.40740						0.40741
	6	.42012			.42010						0.42011
	7	.40339			.40342						0.40341
	F	.47162			.47158						0.47160
68	Pres	.46974			.46977						0.46976
	0	.36768			.36774						0.36771
	1	.42358			.42362						0.42360
	2	.40947			.40948						0.40948
	3	.39793			.39793						0.39793
	4	.41062			.41060						0.41061
	5	.40594			.40593						0.40594
	6	.40736			.40736			~~.40742~~			0.40736
	7	.40659			.40655						0.40657
	F	.48154			.48149						0.48152
69	Pres	0.47065	DW	1/8/81	.47066	DW	1/8/81				0.47066
	0	0.43628			.43633						0.43631
	1	0.41396			.41399						0.41398
	2	0.43305			.43310						0.43308
	3	0.42349			.42349						0.42349
	4	0.40180			.40176						0.40178
	5	0.39733			.39732						0.39733
	6	0.40555			.40555						0.40555
	7	0.44017			.44016						0.44017
	F	0.49835			.49837						0.49836

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
70	Pres	0.47647	Qa	1/8/81	0.47645	Qa	1/8/81	0.			0.47646
	0	0.42880			.42881						0.42881
	1	0.41053			.41052						0.41053
	2	0.42605			.42603						0.42604
	3	0.40965			.40966						0.40966
	4	0.42020			.42016						0.42018
	5	0.39760			.39761						0.39761
	6	0.42731			.42731						0.42731
	7	0.40432			.40431						0.40432
	F	0.46526			.46527						0.46527
71	Pres	0.45748	Qa	1/8/81	.45747	Qa	1/9/81				0.45748
	0	0.41749			.41749						0.41749
	1	0.40871			.40872						0.40872
	2	0.42328			.42330						0.42329
	3	0.43324			.43325						0.43325
	4	0.42583			.42583						0.42583
	5	0.43003			.43007						0.43005
	6	0.44469			.44473						0.44471
	7	0.39674			.39674						0.39674
	F	0.45531			.45532						0.45532
72	Pres	0.45977	Qa	1/8/81	.45980	Qa	1/9/81				0.45979
	0	0.40169			.40167						0.40168
	1	0.40471			.40475						0.40473
	2	0.42218			.42219						0.42219
	3	0.41013			.41014						0.41014
	4	0.41572			.41577						0.41575
	5	0.41591			.41591						0.41591
	6	0.41906			.41910						0.41908
	7	0.41427			.41427						0.41427
	F	0.46080			.46084						0.46082

Remarks:

TARE

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
73	Pres	0.49972	Qa	1/9/81	0.49969	Qa	1/10/81				.49971
	0	0.44598	Qa	1/9/81	0.44596						.44597
	1	0.43768	Qa	1/9/81	0.43769						.43769
	2	0.44674	Qa	1/9/81	0.44672						.44673
	3	0.41403	Qa	1/9/81	0.41406						.41405
	4	0.41871	Qa	1/9/81	0.41874						.41873
	5	0.42204	Qa	1/9/81	0.42204						.42204
	6	0.42460	Qa	1/9/81	0.42463						.42462
	7	0.40404	Qa	1/9/81	0.40406						.40405
	F	0.47457	Qa	1/9/81	0.47454						.47456
74	Pres	0.47894	Qa	1/9/81	0.47891	Qa	1/10/81				.47893
	0	0.40712			0.40707						.40709
	1	0.40643			0.40645						.40644
	2	0.41469			0.41466						.41468
	3	0.40692			0.40691						.40692
	4	0.42089			0.42094						.42092
	5	0.40273			0.40272						.40273
	6	0.42498			0.42494						.42496
	7	0.41786			0.41783						.41785
	F	0.46062			0.46057						.46060
75	Pres	0.46692	Qa	1/9/81	0.46688	Qa	1/10/81				.46690
	0	0.41692			0.41691						.41692
	1	0.43436			0.43434						.43435
	2	0.44589			0.44586						.44588
	3	0.43713			0.43710						.43712
	4	0.44629			0.44629						.44629
	5	0.45203			0.45200						.45202
	6	0.45031			0.45029						.45030
	7	0.42302			0.42300						.42301
	F	0.49313			0.49311						.49312

Remarks:

Project No. 4891-293 Date of Work: OCTOBER 16, 1980 Work Performed by: J. PAVELCONIS

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
1	Pres.	.26879	.26876	.26880	.26878
	0	.43188	.43180	.43180	.43182
	1	.41242	.41235	.41239	.41238
	2	.43315	.43319	.43319	.43317
	3	.42004	.41991	.41990	.41995
	4	.42449	.42451	.42451	.42450
	5	~~.43055~~*	~~.43055~~*	~~.43050~~*	*SEE COMMENTS
	6	.43042	.43044	.43041	.43042
	7	.43699	.43700	.43696	.43698
	F	.45119	.45061	.45072	.45084
2	Pres.	.26764	.26761	.26761	.26762
	0	.41521	.41524	.41530	.41525
	1	.40449	.40446	.40449	.40448
	2	.41729	.41725	.41725	.41726
	3	.42329	.42326	.42326	.42327
	4	.43371	.43370	.43371	.43370
	5	.40783	.40775	.40783	.40780
	6	.42558	.42556	.42558	.42557
	7	.43787	.43784	.43785	.43785
	F	.44135	.44089	.44101	.44108
3	Pres.	.31987	.31976	.31981	.31981
	0	.44486	.44487	.44481	.44484
	1	.40442	.40447	.40447	.40445
	2	.43306	.43306	.43306	.43306
	3	.42472	.42474	.42470	.42472
	4	.43113	.43115	.43113	.43113
	5	.42543	.42538	.42544	.42541
	6	.43771	.43786	.43784	.43780
	7	.50360	.50360	.50359	.50359
	F	.43641	.43615	.43631	.43629

Comment: SET # 1 FILTER # 5 → (10-18-80) ~~.39055~~

.39055 .39024 .39083 .39054

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 16, 1980 Work Performed by: J. PAVELONIS

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
4	Pres.	.25165	.25164	.25165	.25164
	0	.44279	.44179	.44185	.44214
	1	.41673	.41633	.41636	.41647
	2	.43068	.43055	.43058	.43060
	3	.41798	.41787	.41790	.41791
	4	.43544	.43537	.43544	.43541
	5	.41793	.41788	.41797	.41792
	6	.44094	.44091	.44097	.44094
	7	.43117	.43115	.43118	.43116
	F	.47031	.47010	.47044	.47028
5	Pres.	.28333	.28331	.28335	.28333
	0	.42490	.42480	.42497	.42489
	1	.39894	.39893	.39896	.39894
	2	.41810	.41809	.41811	.41810
	3	.39550	.39489	.39489	.39509
	4	.43765	.43783	.43785	.43777
	5	.41909	.41903	.41901	.41904
	6	.44422	.44424	.44427	.44424
	7	.43060	.43058	.43058	.43058
	F	.45210	.45181	.45205	.45198
6	Pres.	.25410	.25436	.25435	.25427
	0	.43644	.43637	.43630	.43637
	1	.42170	.42163	.42172	.42168
	2	.44015	.44001	.44003	.44006
	3	.44623	.44606	.44608	.44612
	4	.44445	.44437	.44441	.44441
	5	.42415	.42411	.42411	.42412
	6	.43408	.43403	.43403	.43404
	7	.46105	.46103	.46104	.46104
	F	.45367	.45314	.45341	.45340

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-193 Date of Work: OCTOBER 17, 1980 Work Performed by: I.P.

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE Grams One	~~Final~~ TARE Grams Two	~~Final~~ TARE Grams Three	Grams Average
7	Pres.	.48124	.48120	.48124	.48122
	0	.46263	.46268	.46279	.46270
	1	.42088	.42091	.42095	.42091
	2	.43627	.43624	.43630	.43627
	3	.41179	.41185	.41190	.41184
	4	.43838	.43837	.43844	.43839
	5	.42648	.42649	.42653	.42650
	6	.42435	.42432	.42435	.42434
	7	.45967	.45967	.45969	.45967
	F	.43667	.43704	.43715	.43695
8	Pres.	.49534	.49530	.49536	.49533
	0	.47510	.47519	.47526	.47518
	1	.47958	.47952	.47960	.47956
	2	.45689	.45686	.45695	.45690
	3	.43875	.43868	.43876	.43873
	4	.45683	.45684	.45690	.45685
	5	.41638	.41637	.41643	
	6	.43415	.43416	.43412	.43414
	7	.45858	.45860	.45861	.45859
	F	.47128	.47166	.47165	.47153
9	Pres.	.47649	.47644	.47643	.47645
	0	.45894	.45894	.45886	.45888
	1	.44418	.44420	.44413	.44417
	2	.45717	.45719	.45715	.45717
	3	.44421	.44424	.44420	.44421
	4	.46350	.46352	.46352	.46351
	5	.44361	.44363	.44365	.44363
	6	.46690	.46694	.46692	.46692
	7	.46087	.46089	.46089	.46088
	F	.46996	.47024	.47037	.47019

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

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Project No. 4891-L93 Date of Work: OCTOBER 17, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
10	Pres.	.46235	.46233	.46233	.46233
	0	.46006	.46004	.46003	.46004
	1	.44211	.44212	.44215	.44212
	2	.47150	.47148	.47153	.47150
	3	.44377	.44375	.44384	.44378
	4	.45275	.45275	.45281	.45277
	5	.45091	.45093	.45098	.45094
	6	.47012	.47013	.47016	.47013
	7	.44379	.44383	.44376	.44379
	F	.47260	.47296	.47299	.47285
11	Pres.	.50615	.50610	.50607	.50610
	0	.45222	.45223	.45232	.45225
	1	.44331	.44332	.44338	.44333
	2	.46962	.46963	.46955	.46960
	3	.44967	.44967	.44966	.44966
	4	.45963	.45960	.45961	.45961
	5	.44458	.44451	.44442	.44450
	6	.45679	.45672	.45669	.45673
	7	.45739	.45738	.45733	.45736
	F	.46936	.46956	.46974	.46955
12	Pres.	.50935	.50921	.50927	.50927
	0	.45427	.45424	.45431	.45427
	1	.44040	.44046	.44047	.44044
	2	.44934	.44937	.44937	.44936
	3	.43783	.43789	.43785	.43785
	4	.45754	.45763	.45757	.45758
	5	.43852	.43855	.43854	.43853
	6	.46893	.46904	.46908	.46901
	7	.45979	.45991	.45994	.45988
	F	.46819	.46846	.46850	.46838

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 20, 1980 - 14, 15 OCTOBER 17, 1980-13 Work Performed by: J.P.

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
13	Pres.	.51095	.51087	.51089	.51090
	0	.43509	.43618	.43616	.43581
	1	.43955	.43955	.43962	.43957
	2	.45622	.45622	.45628	.45624
	3	.45834	.45834	.45839	.45835
	4	.44012	.44013	.44016	.44013
	5	.44733	.44738	.44742	.44737
	6	.46261	.46259	.46268	.46262
	7	.45960	.45961	.45969	.45963
	F	.46970	.46982	.47006	.46986
14	Pres.	.51409	.51404	.51401	.51404
	0	.46731	.46720	.46733	.46728
	1	.43401	.43391	.43401	.43397
	2	.45705	.45697	.45707	.45703
	3	.44024	.44026	.44034	.44028
	4	.44128	.44138	.44144	.44136
	5	.44290	.44293	.44300	.44294
	6	.44477	.44489	.44490	.44485
	7	.45040	.45043	.45048	.45043
	F	.48296	.48288	.48299	.48294
15	Pres.	.47922	.47918	.47918	.47919
	0	.44305	.44296	.44296	.44299
	1	.44623	.44619	.44621	.44621
	2	.45881	.45885	.45893	.45886
	3	.44158	.44159	.44164	.44160
	4	.45753	.45756	.45763	.45757
	5	.44077	.44082	.44090	.44083
	6	.45663	.45670	.45671	.45668
	7	.45183	.45188	.45190	.45187
	F	.46801	.46799	.46798	.46799

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 20, 1980 Work Performed by: SJP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
16	Pres.	.51677	.51673	.51670	.51673
	0	.44802	.44797	.44793	.44797
	1	.42999	.43008	.43006	.43004
	2	.44271	.44278	.44284	.44277
	3	.43144	.43151	.43145	.43146
	4	.46029	.46026	.46038	.46031
	5	.69989	.69982	.69956	.69975
	6	.45565	.45564	.45569	.45566
	7	.45261	.45260	.45251	.45257
	F	.45447	.45439	.45453	.45446
17	Pres.	.48102	.48096	.48094	.48097
	0	.43815	.43775	.43798	.43796
	1	.41279	.41259	.41278	.41272
	2	.44499	.44478	.44498	.44491
	3	.41784	.41764	.41782	.41776
	4	.43075	.43057	.43073	.43068
	5	.42177	.42159	.42175	.42170
	6	.43529	.43511	.43529	.43523
	7	.43761	.43740	.43764	.43755
	F	.45529	.45506	.45547	.45527
18	Pres.	.50625	.50622	.50619	.50622
	0	.45460	.45445	.45456	.45453
	1	.44797	.44762	.44793	.44784
	2	.46921	.46898	.46924	.46914
	3	.44570	.44550	.44573	.44564
	4	.45315	.45298	.45319	.45310
	5	.44577	.44559	.44576	.44570
	6	.45674	.45658	.45676	.45669
	7	.43925	.43907	.43925	.43919
	F	.47233	.47223	.47248	.47234

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-693 Date of Work: OCTOBER 20, 1980 Work Performed by: J.P

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
19	Pres.	.50423	.50416	.50417	.50418
	0	.44958	.44943	.44961	.44954
	1	.42348	.42331	.42341	.42340
	2	.44297	.44285	.44299	.44293
	3	.41229	.41216	.41236	.41227
	4	.44149	.44138	.44155	.44147
	5	.41540	.41526	.41541	.41535
	6	.44643	.44634	.44653	.44643
	7	.45126	.45116	.45138	.45126
	F	.44617	.44611	.44619	.44615
20	Pres.	.46521	.46512	.46512	.46515
	0	.44483	.44445	.44479	.44469
	1	.41643	.41619	.41641	.41634
	2	.42512	.42491	.42509	.42504
	3	.39960	.39955	.39961	.39958
	4	.40152	.40129	.40148	.40143
	5	.38679	.38684	.38693	.38685
	6	.44474	.44450	.44463	.44462
	7	.47172	.47148	.47159	.47159
	F	.45504	.45485	.45495	.45494
21	Pres.	.50904	.50903	.50898	.50901
	0	.42251	.42255	.42263	.42256
	1	.41792	.41792	.41810	.41798
	2	.44139	.44138	.44156	.44144
	3	.41446	.41445	.41462	.41449
	4	.42276	.42273	.42289	.42279
	5	.41673	.41674	.41679	.41675
	6	.43342	.43339	.43352	.43344
	7	.47262	.47248	.47275	.47261
	F	.48582	.48561	.48580	.48574

Comment:

Continued To:

Disclosed To And Understood By Me:

Entered By:

Date:

Date:

Date:

TARE WEIGHTS

Project No. 4891-L93 Date of Work: OCTOBER 20, 1980 22 OCTOBER 21, 1980-23,24 Work Performed by: J.P

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
22	Pres.	.50504	.50498	.50494	.50498
	0	.42489	.42465	.42479	.42477
	1	.41795	.41775	.41798	.41789
	2	.41553	.41523	.41569	.41548
	3	.42581	.42565	.42585	.42577
	4	.42660	.42635	.42660	.42651
	5	.41996	.41977	.41997	.41990
	6	.42646	.42629	.42650	.42641
	7	.45312	.45293	.45322	.45309
	F	.52119	.52116	.52116	.52117
23	Pres.	.48372	.48371	.48370	.48371
	0	.43690	.43705	.43689	.43694
	1	.42865	.42867	.42868	.42866
	2	.44046	.44053	.44052	.44050
	3	.42449	.42453	.42459	.42453
	4	.43337	.43348	.43347	.43344
	5	.42447	.42455	.42454	.42452
	6	.43899	.43906	.43907	.43904
	7	.45096	.45107	.45107	.45103
	F	.53012	.53016	.53003	.53010
24	Pres.	.50291	.50289	.50288	.50289
	0	.40685	.40704	.40699	.40696
	1	.42592	.42618	.42617	.42615
	2	.44690	.44695	.44689	.44691
	3	.43281	.43290	.43291	.43287
	4	.43917	.43916	.43922	.43918
	5	.42691	.42692	.42696	.42693
	6	.43907	.43908	.43913	.43909
	7	.44981	.44991	.44992	.44988
	F	.54394	.54394	.54392	.54393

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 21, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
25	Pres.	.49767	.49763	.49763	.49764
	0	.43162	.43165	.43168	.43165
	1	.41549	.41554	.41566	.41556
	2	.43107	.43123	.43123	.43117
	3	.41530	.41534	.41538	.41534
	4	.43123	.43131	.43127	.43127
	5	.41814	.41821	.41822	.41819
	6	.43465	.43469	.43469	.43467
	7	.44783	.44869	.44796	.44816
	F	.54283	.54291	.54285	.54286
26	Pres.	.48540	.48537	.48535	.48537
	0	.45889	.45891	.45889	.45889
	1	.45928	.45931	.45925	.45928
	2	.46122	.46119	.46123	.46121
	3	.46304	.46308	.46306	.46306
	4	.45834	.45836	.45834	.45834
	5	.45398	.45399	.45400	.45399
	6	.45919	.45922	.45922	.45921
	7	.45001	.45001	.45002	.45001
	F	.52581	.52585	.52584	.52583
27	Pres.	.48059	.48052	.48049	.48053
	0	.45013	.45012	.45005	.45010
	1	.44303	.44309	.44305	.44305
	2	.45270	.45273	.45264	.45269
	3	.45466	.45473	.45473	.45470
	4	.45940	.45956	.45960	.45952
	5	.45772	.45784	.45786	.45780
	6	.45894	.45900	.45902	.45898
	7	.45489	.45503	.45500	.45497
	F	.55527	.55539	.55525	.55530

Comment: #26 BLANK RUN

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-693 Date of Work: OCTOBER 21, 1980 Work Performed by: JP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
28	Pres.	.48754	.48749	.48748	.48750
	0	.41323	.41326	.41327	.41325
	1	.44015	.44021	.44020	.44018
	2	.44550	.44560	.44555	.44555
	3	.44508	.44519	.44516	.44514
	4	.44912	.44912	.44914	.44912
	5	.45624	.45626	.45629	.45626
	6	.44991	.45000	.45003	.44998
	7	.45517	.45527	.45526	.45523
	F	.55687	.55702	.55704	.55697
29	Pres.	.48245	.48244	.48242	.48243
	0	.46287	.46296	.46284	.46289
	1	.45289	.45262	.45260	.45270
	2	.44516	.44519	.44520	.44518
	3	.45419	.45419	.45422	.45420
	4	.45981	.45976	.45983	.45980
	5	.44441	.44438	.44441	.44440
	6	.44582	.44585	.44586	.44584
	7	.45481	.45483	.45486	.45483
	F	.55271	.55272	.55273	.55272
30	Pres.	.50203	.50199	.50201	.50201
	0	.46250	.46251	.46249	.46250
	1	.43547	.43550	.43547	.43548
	2	.45325	.45329	.45323	.45325
	3	.43119	.43121	.43124	.43121
	4	.45498	.45502	.45503	.45501
	5	.43245	.43246	.43246	.43245
	6	.45650	.45650	.45644	.45648
	7	.46648	.46647	.46646	.46647
	F	.56065	.56055	.56061	.56060

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 21, 1980 Work Performed by: JJP

Title or Purpose: ANDERSON TARE WEIGHTS Continued From:

Set No.	Filter No.	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
31	Pres.	.48369	.48369	.48362	.48366
	0	.49266	.49264	.49262	.49264
	1	.47539	.47543	.47542	.47541
	2	.49395	.49404	.49401	.49400
	3	.46504	.46512	.46500	.46505
	4	.49231	.49238	.49233	.49234
	5	.48610	.48615	.48612	.48612
	6	.48796	.48794	.48799	.48796
	7	.45520	.45529	.45521	.45523
	F	.46858	.46864	.46856	.46859
32	Pres.	.50191	.50190	.50191	.50190
	0	.47859	.47858	.47853	.47856
	1	.44064	.44075	.44066	.44068
	2	.45560	.45566	.45555	.45560
	3	.45940	.45939	.45940	.45939
	4	.46562	.46563	.46558	.46561
	5	.42108	.42109	.42103	.42106
	6	.44829	.44831	.44830	.44830
	7	.43651	.43658	.43646	.43651
	F	.44481	.44489	.44485	.44485
*33	Pres.	.49307	.49309	.49309	.49308
	0	.48233	.48235	.48235	.48234
	1	.46632	.46633	.46631	.46632
	2	.45572	.45573	.45565	.45548
	3	.45531	.45544	.45530	.45535
	4	.47771	.47777	.47766	.47771
	5	.48783	.48785	.48781	.48783
	6	.49162	.49155	.49159	.49158
	7	.44101	.44101	.44099	.44100
	F	.44919	.44917	.44916	.44917

Comment: * 33 - BLANK RUN

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-693 Date of Work: OCT. 22, 1980 - 2 Work Performed by: JP

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From: -

Set No.	Filter No.	Final One	Final Two	Final Three	Average
1 *	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
2 *	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
3	Pres.	.32039	.32038	.32035	.32037
	0	.44506	.44505	.44511	.44507
	1	.40473	.40477	.40479	.40476
	2	.43329	.43331	.43332	.43330
	3	.42487	.42490	.42493	.42490
	4	.43150	.43154	.43155	.43153
	5	.42597	.42597	.42599	.42597
	6	.43830	.43832	.43834	.43832
	7	.50387	.50390	.50391	.50389
	F	.44409	.44413	.44418	.44413

Comment: BAD RUNS - FINAL FILTERS NOT WEIGHED

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCT. 25, 1980 - 6 Work Performed by: J.P.

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One	Final Two	Final Three	Average
4 *	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
5 *	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
6 *	Pres.	.25507	.25499	.25504	.25503
	0	.43773	.43768	.43779	.43773
	1	.42287	.42283	.42283	.42284
	2	.44134	.44127	.44133	.44131
	3	.44742	.44736	.44740	.44739
	4	.44581	.44578	.44582	.44580
	5	.42546	.42541	.42546	.42544
	6	.43520	.43512	.43517	.43516
	7	.46200	.46191	.46197	.46196
	F	.45419	.45404	.45388	.45403

Comment: * NO FILTER IN PRES. STAGE

4, 5 - BAD RUNS - FINAL FILTERS NOT WEIGHED

Disclosed To And Understood By Me:

Continued To: Date:

Entered By: Date:

Date:

Project No. 4891-L93 Date of Work: OCT 25, 1980 -7, 9 Work Performed by: 4P

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final GRAMS One	Final GRAMS Two	Final GRAMS Three	Average
7	Pres.	.48116	.48107	.48103	.48108
	0	.46364	.46361	.46357	.46360
	1	.42200	.42200	.42202	.42200
	2	.43764	.43763	.43764	.43763
	3	.41320	.41320	.41319	.41319
	4	.43986	.43984	.43986	.43985
	5	.42794	.42793	.42795	.42794
	6	.42510	.42509	.42512	.42510
	7	.46054	.46053	.46061	.46056
	F	.43756	.43750	.43755	.43753
8 *	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
9	Pres.	.47658	.47654	.47660	.47657
	0	.46085	.46086	.46088	.46086
	1	.44566	.44567	.44570	.44567
	2	.45848	.45849	.45849	.45848
	3	.44560	.44561	.44562	.44561
	4	.46524	.46524	.46527	.46525
	5	.44529	.44535	.44536	.44533
	6	.46822	.46826	.46828	.46825
	7	.46178	.46184	.46184	.46182
	F	.47090	.47095	.47098	.47094

Comment: * BAD RUN - FINAL FILTERS NOT WEIGHED

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: OCTOBER 27, 1980-10, OCTOBER 28, 1980-11 Work Performed by: J.P.

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One	Final Two	Final Three	Average
10	Pres.	.46265	.46279	.46279	.46274
	0	.46105	.46107	.46102	.46104
	1	.44285	.44283	.44286	.44284
	2	.47266	.47270	.47270	.47268
	3	.44490	.44488	.44488	.44488
	4	.45433	.45431	.45437	.45433
	5	.45243	.45244	.45255	.45247
	6	.47107	.47107	.47116	.47110
	7	.44454	.44455	.44457	.44455
	F	.47334	.47335	.47331	.47333
11	Pres.	.50574	.50582	.50576	.50577
	0	.45338	.45339	.45339	.45338
	1	.44430	.44430	.44433	.44431
	2	.47061	.47060	.47060	.47060
	3	.45084	.45082	.45080	.45082
	4	.46115	.46122	.46126	.46121
	5	.44612	.44611	.44610	.44611
	6	.45783	.45776	.45784	.45781
	7	.45809	.45809	.45817	.45811
	F	.46994	.46998	.47005	.46999
12*	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				

Comment: *12 BAD RUN - FINAL FILTERS NOT WEIGHED

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891-L93 Date of Work: OCTOBER 29, 1980 - 13, 14 Work Performed by: J. P

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One	Final Two	Final Three	Average
13	Pres.	.69042	.69036	.69028	.69035
	0	.43925	.43919	.43915	.43919
	1	.44685	.44685	.44679	.44683
	2	.47728	.47729	.47711	.47722
	3	.48382	.48383	.48388	.48384
	4	.46732	.46734	.46734	.46733
	5	.46649	.46648	.46650	.46649
	6	.46710	.46707	.46712	.46709
	7	.46258	.46257	.46264	.46259
	F	.47532	.47527	.47532	.47530
14	Pres.	.53921	.53916	.53926	.53921
	0	.47244	.47236	.47245	.47241
	1	.43576	.43576	.43576	.43576
	2	.46372	.46360	.46371	.46367
	3	.44593	.44586	.44594	.44591
	4	.44665	.44666	.44671	.44667
	5	.44698	.44701	.44700	.44699
	6	.44802	.44794	.44809	.44801
	7	.45424	.45402	.45447	.45424
	F	.48538	.48530	.48554	.48540
15	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				

Comment: #15 BAD RUN - FINAL FILTERS NOT WEIGHED

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 46691-L93 Date of Work: Nov 5, 1980 16, 17 Nov 7, 1980 -18 Work Performed by: BOOMER

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One (Grams)	Final Two (Grams)	Final Three (Grams)	Average (Grams)
16	Pres.	.54055	.54045	.54023	.54034
	0	.45459	.45452	.45458	.45455
	1	.43352	.43351		.43351
	2	.45042	.45028	.45043	.45035
	3	.43825	.43821		.43823
	4	.46669	.46666		.46667
	5	.70244	.70376	.70343	.70359
	6	.45713	.45711		.45712
	7	.45322	.45318		.45320
	F	.45495	.45494		.45494
*17	Pres.	.54516	.54511		.54513
	0	.43950	.43947		.43948
	1	.41453	.41450		.41451
	2	.45309	.45312		.45310
	3	.42475	.42480		.42477
	4	.43674	.43675		.43674
	5	.42551	.42553		.42552
	6	.43630	.43630		.43630
	7	.43824	.43822		.43823
	F	.45624	.45619		.45621
18	Pres.	.52850	.52842		.52846
	0	.45516	.45528		.45522
	1	.44930	.44928		.44929
	2	.47607	.47604		.47605
	3	.45323	.45320		.45321
	4	.46161	.46157		.46159
	5	.45164	.45170		.45167
	6	.45806	.45804		.45805
	7	.43990	.43988		.43989
	F	.47469	.47469		.47469

Comment: * WEIGHTS WITHIN .5mg ; ONLY WEIGH TWICE
THIS PERTAINS TO ALL WEIGHINGS AFTER NOV 6, 1980

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-293 Date of Work: Nov. 7, 1980 - 20,24 P. Nov 5, 1980-19 Work Performed by: BOOMER

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final GRAMS One	Final GRAMS Two	Final GRAMS Three	GRAMS Average
19	Pres.	.56048	.56049		.56048
	0	.45435	.45431		.45433
	1	.42559	.42564		.42561
	2	.45107	.45111		.45109
	3	.42042	.42040		.42041
	4	.44781	.44780		.44780
	5	.41862	.41860		.41861
	6	.44765	.44762		.44763
	7	.45283	.45286		.45284
	F	.44924	.44924		.44924
20	Pres.	.50987	.50979		.50983
	0	.44985	.44999		.44992
	1	.42085	.42089		.42087
	2	.43777	.43778		.43777
	3	.41232	.41233		.41232
	4	.41216	.41221		.41218
	5	.39622	.39624		.39623
	6	.44705	.44708		.44706
	7	.47389	.47387		.47388
	F	.45945	.45950		.45947
21	Pres.	.52338	.52336		.52337
	0	.42434	.42433		.42433
	1	.42075	.42082		.42078
	2	.45183	.45191		.45187
	3	.42324	.42329		.42326
	4	.43032	.43037		.43034
	5	.42152	.42159		.42155
	6	.43463	.43473		.43468
	7	.47380	.47380		.47380
	F	.48786	.48782		.48784

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-19 Date of Work: Nov. 7, 1980 - 24 - 47 NOV 5 1980 2223 Work Performed by: BOOMER

Title or Purpose: ANDERSEN FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One GRAMS	Final Two GRAMS	Final Three	Average GRAMS
22	Pres.	.56929	.56919		.56924
	0	.42827	.42832		.42829
	1	.42390	.42395		.42392
	2	.43282	.43278		.43280
	3	.43863	.43859		.43861
	4	.43892	.43888		.43890
	5	.42526	.42526		.42526
	6	.42774	.42779		.42776
	7	.45429	.45424		.45426
	F	.52343	.52338		.52340
23	Pres.	.50144	.50139		.50141
	0	.43834	.43831		.43832
	1	.43070	.43066		.43068
	2	.44933	.44928		.44930
	3	.43335	.43334		.43334
	4	.44015	.44020		.44017
	5	.42820	.42815		.42817
	6	.43999	.44000		.43999
	7	.45258	.45257		.45257
	F	.53171	.53173		.53172
24	Pres. X	.55067	.55043		.55055
	0	.40827	.40822		.40824
	1	.42911	.42910		.42910
	2	.46061	.46061		.46061
	3	.44364	.44356		.44360
	4	.44712	.44701		.44706
	5	.43138	.43140		.43139
	6	.44023	.44029		.44026
	7	.45134	.45139		.45136
	F	.54548	.54555		.54551

Comment:

Continued To:

Disclosed To And Understood By Me:

Date:

Entered By:

Date:

Date:

Project No. 4891-193 Date of Work: NOV 5, 1980 -26, 25, 27 Work Performed by: BOOMER

Title or Purpose: ANDERSON FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One (Grams)	Final Two (Grams)	Final Three	Average (Grams)
'25	Pres.	.52754	.52749		.52751
	0	.43284	.43289		.43286
	1	.41736	.41745		.41740
	2	.44074	.44079		.44076
	3	.42473	.42472		.42472
	4	.43935	.43938		.43936
	5	.42245	.42250		.42247
	6	.43535	.43542		.43538
	7	.44847	.44851		.44849
	F	.54382	.54384		.54383
'26	Pres.	.48538	.48543		.48540
	0	.45905	.45901		.45903
	1	.45927	.45924		.45925
	2	.46129	.46126		.46127
	3	.46303	.46298		.46300
	4	.45831	.45828		.45829
	5	.45404	.45399		.45401
	6	.45910	.45910		.45910
	7	.44993	.44990		.44991
	F	.52581	.52577		.52579
'27	Pres.	.59484	.59480		.59482
	0	.45209	.45205		.45207
	1	.44505	.44510		.44507
	2	.46614	.46618		.46616
	3	.46579	.46584		.46581
	4	.47439	.47442		.47440
	5	.46771	.46772		.46771
	6	.46102	.46107		.46104
	7	.45551	.45553		.45552
	F	.55906	.55901		.55903

Comment: #26 BLANK RUN

Continued To:

Disclosed To And Understood By Me:

Date:

Entered By:

Date:

Date:

Project No. 4891-L-B Date of Work: Nov. 7, 1980 Work Performed by: J Rawson

Title or Purpose: ANDERSEN FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One	Final Two	Final Three	Avera
28X	Pres.	.49180	.49199		.49189
	0	.41312	.41316		.41314
	1	.43962	.43958		.43960
	2	.44513	.44515		.44514
	3	.44466	.44477		.44471
	4	.44869	.44867		.44868
	5	.45575	.45575		.45575
	6	.44941	.44952		.44946
	7	.45469	.45481		.45475
	F	.55706	.55704		.55705
29X	Pres.	.49962	.49935		.49948
	0	.46459	.46460		.46459
	1	.45368	.45367		.45367
	2	.45030	.45030		.45030
	3	.46113	.46109		.46111
	4	.46649	.46645		.46647
	5	.44983	.44982		.44982
	6	.44772	.44772		.44772
	7	.45596	.45584		.45590
	F	.55480	.55483		.55481
30X	Pres.	.53599	.53613		.53606
	0	.46499	.46503		.46501
	1	.43667	.43672		.43669
	2	.45999	.46005		.46002
	3	.43797	.43796		.43796
	4	.46124	.46126		.46125
	5	.43744	.43737		.43740
	6	.45752	.45753		.45752
	7	.46684	.46690		.46687
	F	.56227	.56221		.56224

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4691L-B Date of Work: Nov 5, 1980 - 32 Nov. 9, 1980 - 33 Work Performed by: J. Parsons BOOMER

Title or Purpose: ANDERSEN FINAL WEIGHTS Continued From:

Set No.	Filter No.	Final One (GRAM)	Final Two	Final Three	Average
31	Pres.				
	0				
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	F				
32	Pres.	.56953	.56935	.56922	.56928
	0	.47934	.47930		.47932
	1	.44175	.44171		.44173
	2	.46053	.46042	.46044	.46043
	3	.46448	.46443		.46445
	4	.47072	.47071		.47071
	5	.42499	.42495		.42497
	6	.44923	.44918		.44918
	7	.43708	.43703		.43705
	F	.44686	.44674	.44688	.44681
~~33~~	Pres.	.49313	.49311		.49312
	0	.48199	.48212		.48205
	1	.46611	.46612		.46611
	2	.45548	.45541		.45544
	3	.45503	.45502		.45502
	4	.47736	.47738		.47737
	5	.48745	.48745		.48745
	6	.49127	.49126		.49126
	7	.44069	.44067		.44068
	F	.44927	.44926		.44926

Comment: ~~33~~ BLANK RUN

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
34	Pres	.50449	BD	12/3/80	.50446	BD	12/3/80				.50448
	0	.45509			.45512						.45511
	1	.46099			.46101						.46100
	2	.44066			.44069						.44068
	3	.42836			.42833						.42835
	4	.45804			.45810						.45807
	5	.44291			.44296						.44294
	6	.45499			.45500						.45500
	7	.42716			.42721						.42719
	F	.45034			.45044			.45043	BD	12/3/80	.45044
35 *	Pres										
	0										
	1										
	2										
	3										
	4										
	5										
	6										
	7										
	F										
36	Pres	.56834	BD	12/2/80	.56840				BD	12/2/80	.56837
	0	.43965			.43982			.43985			.43984
	1	.42983			.43003			.43008			.43006
	2	.47399			.47397						.47398
	3	.43216			.43217						.43217
	4	.44365			.44372			.44370			.44371
	5	.43262			.43268						.43265
	6	.44268			.44269						.44269
	7	.44282			.44289			.44285			.44287
	F	.44089			.44109			.44111			.44100

Remarks:

* bad run; final filters not weighed

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
37	Pres	.62460	BD	12/3/80	.62455	BD	12/4/80		BD	12/4/80	.62458
	0	.45037			.45030			.45032			.45031
	1	.44499			.44490			.44495			.44493
	2	.44096			.44086			.44089			.44088
	3	.44101			.44100						.44101
	4	.44431			.44427						.44429
	5	.46316			.46317						.46317
	6	.45780			.45775						.45778
	7	.45820			.45820						.45821
	F	.49716			.49724			.49720			.49720
38	Pres	.49827			.49820			.49822			.49821
	0	.45227			.45223						.45225
	1	.44475			.44469						.44472
	2	.46144			.46135			.46137			.46136
	3	.44575			.44570						.44573
	4	.45278			.45271			.45274			.45273
	5	.43650			.43641			.43644			.43643
	6	.44688			.44680			.44682			.44681
	7	.42979			.42973						.42976
	F	.44297			.44287			.44288			.44288
39	Pres	.48500	BD	12/4/80	.48505	BD	12/4/80		BD	12/4/80	.48503
	0	.44724			.44720						.44722
	1	.45206			.45210						.45208
	2	.48291			.48298			.48297			.48298
	3	.46219			.46226			.46229			.46228
	4	.43198			.43199						.43199
	5	.42743			.42748						.42747
	6	.43390			.43398			.43394			.43396
	7	.45273			.45280			.45282			.45281
	F	.43371			.43381			.43378			.43380

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
40	Pres	.62646	BD	12/4/80	.62652	BD	12/4/80		BD	12/4/80	.62639
	0	.45776			.45779						.45778
	1	.44101			.44110			.44105			.44108
	2	.47609			.47615						.47612
	3	.43675			.43679						.43677
	4	.47038			.47046			.47038			.47042
	5	.43776			.43781						.43779
	6	.46660			.46669			.46665			.46667
	7	.44815			.44817						.44816
	F	.57586			.57591						.57589
41	Pres	.67695			.67696						.67696
	0	.42995			.43000						.42998
	1	.44772			.44776						.44774
	2	.46728			.46732						.46730
	3	.45656			.45660						.45658
	4	.45567			.45571						.45569
	5	.43337			.43341						.43339
	6	.42845			.42851						.42848
	7	.44055			.44063			.44059			.44061
	F	.46300			.46306						.46303
42	Pres	.51990			.51984						.51987
	0	.45017			.45020						.45019
	1	.48932			.48940			.48938			.48939
	2	.48015			.48022			.48023			.48023
	3	.47650			.47657						.47655
	4	.45966			.45973			.45974			.45974
	5	.45945			.45951						.45949
	6	.46497			.46499						.46498
	7	.43324			.43328						.43326
	F	.46172			.46176						.46174

Remarks:

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
43	Pres	.50729	BD	12/5/80	.50730	BD	12/5/80		BD	12/5/80	.50730
	0	.44666			.44671						.44669
	1	.44701			.44705						.44703
	2	.45596			.45599						.45598
	3	.44833			.44835						.44834
	4	.45294			.45298						.45296
	5	.45352			.45357						.45355
	6	.44373			.44375						.44374
	7	.45700			.45700						.45700
	F	.45659			.45656						.45658
44	Pres	.51651	BD	12/4/80	.51650	BD	12/4/80		BD	12/4/80	.51651
	0	.47478			.47481						.47480
	1	.47871			.47874						.47872
	2	.47456			.47461						.47459
	3	.47998			.47999						.47999
	4	.45016			.45019						.45018
	5	.47587			.47587						.47587
	6	.48554			.48556						.48555
	7	.47425			.47426						.47426
	F	.45995			.46000						.45998
45	Pres	.49914	BD	12/5/80	.49910	BD	12/5/80		BD	12/5/80	.49912
	0	.45261			.45267						.45264
	1	.45492			.45496						.45494
	2	.46899			.46899						.46899
	3	.47074			.47076						.47075
	4	.46478			.46478						.46478
	5	.44410			.44410						.44410
	6	.43621			.43621						.43621
	7	.45656			.45656						.45656
	F	.44703			.44703						.44703

Remarks:

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
46	Pres	.48595	BD	12/5/80	.48590	BD	12/5/80		BD	12/5/80	.48593
	0	.46824			.46823						.46824
	1	.45862			.45863						.45863
	2	.46545			.46541						.46543
	3	.42232			.42232						.42232
	4	.44122			.44122						.44122
	5	.45137			.45137						.45137
	6	.45703			.45700						.45702
	7	.44644			.44643						.44644
	F	.56930			.56930						.56930
47	Pres	.59107	BD	12/5/80	.59105	BD	12/5/80		BD	12/5/80	.59106
	0	.44645			.44646						.44646
	1	.44571			.44575						.44573
	2	.43460			.43460						.43460
	3	.42628			.42628						.42628
	4	.43939			.43939						.43939
	5	.42795			.42795						.42795
	6	.43585			.43585						.43585
	7	.43020			.43020						.43020
	F	.54515			.54518						.54517
48	Pres	.50398	JP	12-8-80	.50409			.50405	JP	12-8-80	.50407
	0	.42724			.42732			.42729			.42730
	1	.41593			.41597						.41595
	2	.42169			.42171						.42170
	3	.42200			.42204						.42202
	4	.42599			.42598						.42598
	5	.45048			.45048						.45048
	6	.43048			.43058			.43054			.43056
	7	.41917			.41924			.41920	JP	12-8-80	.41922
	F	.55159			.55169			.55165	JP	12-8-80	.55167

Remarks:

~~Final~~

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
49	Pres	.64666	BD	12/5/80	.64676	BD	12/5/80	.64673	BD	12/5/80	.64674
	0	.45186			.45184	JP					.45185
	1	.44081			.44081						.44081
	2	.45199			.45198						.45198
	3	.44310			.44306						.44308
	4	.45992			.46002			46000			.46001
	5	.45986			.45999			.46000			.45999
	6	.45456			.45461						.45458
	7	.46475			.46485			46483			.46484
	F	.55421			.55492			55491			.55491
50	Pres	.70417	JP	12-8-80	.70391	JP	12-8-80	70395	JP	12-8-80	.70393
	0	.46178			.46195			.46193			.46195
	1	.45535			.45550			.45545			.45547
	2	.46355			.46359						.46357
	3	.46479			.46490			46486			.46488
	4	.46561			.46563						.46562
	5	.46846			.46846						.46846
	6	.46024			.46026						.46025
	7	.44860			.44865						.44863
	F	.57200			.57199						.57199
51 *	Pres										
	0										
	1										
	2										
	3										
	4										
	5										
	6										
	7										
	F										

Remarks: * #51 BAD RUN - FINAL FILTERS WERE NOT WEIGHED.

FINAL

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
52	Pres	.48038	JP	12-8-80	.48041	JP	12-8-80				.48039
	0	.46953			.46953						.46953
	1	.44323			.44320						.44321
	2	.48613			.48604			48608	JP	12-8-80	.48606
	3	.44181			.44178						.44179
	4	.46853			.46855						.46854
	5	.44667			.44668						.44667
	6	.45595			.45596						.45595
	7	.43837			.43844			.43841	JP	12-8-80	.43842
	F	.53986			.53995			.53991	"	"	.53993
53	Pres	.60099	JP	12-8-80	.60096	JP	12-8-80				.60097
	0	.45101			.45096						.45098
	1	.42746			.42733			.42737	JP	12-8-80	.42735
	2	.46831			.46831						.46831
	3	.45651			.45652						.45651
	4	.46487			.46484						.46485
	5	.43361			.43361						.43361
	6	.44091			.44088						.44089
	7	.44696			.44698						.44697
	F	.53221			.53221						.53221
54	Pres	.68287	JP	12-9-80	.68289		12-9-80				.68288
	0	.44788			.44788	JP	12-9-80				.44788
	1	.43511			.43512						.43511
	2	.44357			.44373			44369	JP	12-9-80	.44371
	3	.45240			.45235						.45237
	4	.43593			.43591						.43592
	5	.45404			.45402						.45403
	6	.45204			.45202						.45203
	7	.42225			.42220						.42222
	F	.53490			.53505			53500	JP	12-9-80	.53502

Remarks:

FINAL

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
55	Pres	.49513	JP	12-10-80	.49517	JP	12-10-80				.49515
	0	.44169			.44180			.44175	JP	12-10-80	.44177
	1	.43105			.43107						.43106
	2	.47118			.47118						.47118
	3	.46184			.46184						.46184
	4	.45261			.45260						.45260
	5	.45823			.45821						.45821
	6	.48416			.48414						.48415
	7	.45817			.45813						.45815
	F	.53855	JP	12-10-80	.53857	JP	12-10-80		JP	12-10-80	.53856
56 *	Pres	.48792	JP	12-9-80	.48774	JP	12-9-80	.48770	JP	12-9-80	.48772
	0	.44924			.44921						.44922
	1	.42828			.42813			42815			.42814
	2	.46549			.46546						.46547
	3	.45763			.45760						.45761
	4	.45209			.45205						.45207
	5	.43076			.43075						.43075
	6	.45731			.45732						.45731
	7	.44332			.44331						44331
	F	.53150			.53159			53155			.53157
57 *	Pres	.47845	JP	12-10-80	.47845	JP	12-10-80				.47845
	0	.45216			.45229			.45225	JP	12-10-80	.45227
	1	.42899			.42909			.42905			.42907
	2	45049			.45063			45059			.45061
	3	.43461			.43465						.43463
	4	.45245			.45250						.45247
	5	.44237			.44242						.44239
	6	.45291			.45299			45295	JP	12-10-80	.45297
	7	.45236			.45249			.45246	"	"	.45247
	F	.54623			.54636			.54633	"	"	.54634

Remarks: * 56, 57 BLANKS

FINAL

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
58 *	Pres	.48752	JP	12-10-80	.48768	JP	12-10-80	.48763	JP	12-10-80	.48765
	0	.43732			.43740			.43739			.43739
	1	.42462			.42467						.42464
	2	.44066			.44071						.44068
	3	.43400			.43405						.43402
	4	.44033			.44037						.44035
	5	.43003			.43001						.43002
	6	.44450			.44447						.44448
	7	.43208			.43211						.43209
	F	.57057			.57062						.57059
59	Pres	.64844	DW	1/7/81	0.64904	as	1/10/81	.64901	as	1/10/81	.64903
	0	.54074			0.54069						.54072
	1	.42572			0.42568						.42570
	2	.44299			0.44299						.44299
	3	.42246			0.42244						.42245
	4	.44613			0.44613						.44613
	5	.42493			0.42493						.42493
	6	.43857			0.43861						.43859
	7	.42606			0.42609						.42608
	F	.54244			0.54240						.54242
60	Pres	.47327	DW	1/8/81	.47327	DW	1/8/81				0.47327
	0	.44536			.44534						0.44535
	1	.42635			.42631						0.42633
	2	.44442			.44440						0.44441
	3	.42471			.42471						0.42471
	4	.43955			.43951						0.43953
	5	.42420			.42418						0.42419
	6	.44135			.44137						0.44136
	7	.42490			.42489						0.42490
	F	.56457			.56459						0.56458

Remarks: * 58 - BLANK

FINAL

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
61	Pres	0.71032	OA	1/10/81	0.71030	OA	1/10/81				.71031
	0	0.44506			0.44504						.44505
	1	0.42573			0.42571						.42572
	2	0.44516			0.44513						.44515
	3	0.42735			0.42730						.42733
	4	0.44407			0.44404						.44406
	5	0.42807			0.42803						.42805
	6	0.44516			0.44516						.44516
	7	0.42683			0.42682						.42683
	F	0.54822			0.54822						.54822
62	Pres	0.63731	OA	1/11/81	0.63728	OA	1/11/81				.63730
	0	0.45224			0.45222						.45218
	1	0.43650			0.43648						.43649
	2	0.45164			0.45162						.45163
	3	0.44010			0.44006						.44008
	4	0.45208			0.45206						.45207
	5	0.43895			0.43895						.43895
	6	0.45420			0.45419						.45420
	7	0.45313			0.45310						.45312
	F	0.49100			0.49097						.49099
63	Pres	0.69925	OA	1/10/81	0.69921	OA	1/11/81				.69923
	0	0.41313			0.41309						.41311
	1	0.41432			0.41428						.41430
	2	0.41613			0.41612						.41613
	3	0.42664			0.42662						.42663
	4	0.41477			0.41474						.41476
	5	0.39771			0.39767						.39769
	6	0.41630			0.41627						.41629
	7	0.39411			0.39407						.39409
	F	0.48337			0.48333						.48335

Remarks:

FINAL

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
64	Pres	0.48295	Qa	1/11/81	0.48293	Qa	1/11/81				.48294
	0	0.40845			0.40843						.40844
	1	0.40207			0.40204						.40206
	2	0.41112			0.41110						.41111
	3	0.41711			0.41708						.41710
	4	0.42024			0.42021						.42023
	5	0.40000			0.39997						.39999
	6	0.42155			0.42153						.42154
	7	0.40431			0.40428						.40430
	F	0.49310			0.49307						.49309
65	Pres	0.64824	Qa	1/10/81	0.64822	JJ	1/10/81				.64823
	0	0.41124			0.41124						.41124
	1	0.41996			0.41995						.41996
	2	0.41066			0.41065						.41065
	3	0.41197			0.41196						.41197
	4	0.43066			0.43066						.43066
	5	0.44248			0.44246						.44247
	6	0.43597			0.43596						.43597
	7	0.42285			0.42284						.42285
	F	0.46338			0.46338						.46338
66	Pres	0.47892	Qa	1/10/81	0.47891	JJ	1/10/81				.47892
	0	0.42474			0.42472						.42473
	1	0.41111			0.41110						.41111
	2	0.41341			0.41341						.41341
	3	0.39739			0.39737						.39738
	4	0.41824			0.41820						.41822
	5	0.40236			0.40234						.40235
	6	0.42057			0.42056						.42057
	7	0.41099			0.41099						.41099
	F	0.47992			0.47991						.47992

Remarks:

FINAL

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
67	Pres	0.64219	Qa	1/10/81	0.64216	Qa	1/10/81				.64218
	0	0.42951			0.42948						.42950
	1	0.41481			0.41476						.41479
	2	0.42748			0.42745						.42747
	3	0.40712			0.40711						.40712
	4	0.42052			0.42050						.42051
	5	0.41201			0.41201						.41201
	6	0.42313			0.42311						.42312
	7	0.40463			0.40463						.40463
	F	0.47074			0.47070						.47072
68	Pres	0.47239	Qa	1/10/81	0.47128	JJ	1/10/81	0.47124	JJ	1/10/81	.47126
	0	0.36939			0.36827			0.36824			.36826
	1	0.42516			0.42403			0.42401			.42402
	2	0.41138			0.41032			0.41032			.4032
	3	0.40019			0.39906			0.39907			.39907
	4	0.41323			0.41210			0.41210			.41210
	5	0.40890			0.40777			0.40774			.40776
	6	0.40903			0.40801			0.40799			.40800
	7	0.40801			0.40688			0.40686			.40687
	F	0.48292			0.48317			0.48312			.48315
69	Pres	0.47528	JJ	1/10/81	0.47525	Qa	1/11/81				.47527
	0	0.43669			0.43664						.43667
	1	0.41513			0.41509						.41511
	2	0.43412			0.43409						.43411
	3	0.42453			0.42449						.42451
	4	0.40282			0.40278						.40280
	5	0.39872			0.39869						.39871
	6	0.40599			0.40594						.40597
	7	0.44037			0.44034						.44036
	F	0.49865			0.49862						.49864

Remarks:

FINAL

Set No.	Filter No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
70	Pres	0.65304	Qa	1/10/81	0.65302	Qa	1/11/81				.65303
	0	0.43184			0.43180						.43182
	1	0.41215			0.41213						.41214
	2	0.42900			0.42898						.42899
	3	0.41360			0.41358						.41359
	4	0.42582			0.42580						.42581
	5	0.40412			0.40410						.40411
	6	0.43127			0.43125						.43126
	7	0.40629			0.40627						.40628
	F	0.46683			0.46680						.46682
71	Pres	0.45931	Qa	1/10/81	0.45928	Qa	1/11/81				.45930
	0	0.41832			0.41827						.41830
	1	0.40909			0.40905						.40907
	2	0.42401			0.42397						.42399
	3	0.43435			0.43431						.43433
	4	0.42718			0.42714						.42716
	5	0.43168			0.43164						.43166
	6	0.44528			0.44525						.44527
	7	0.39697			0.39694						.39696
	F	0.45431			0.45428						.45430
72	Pres	0.68750	Qa	1/10/81	0.68748	Qa	1/11/81				.68749
	0	0.40383			0.40380						.40382
	1	0.40562			0.40558						.40560
	2	0.42495			0.42490						.42493
	3	0.41453			0.41452						.41453
	4	0.42105			0.42103						.42104
	5	0.42029			0.42029						.42029
	6	0.42075			0.42071						.42073
	7	0.41421			0.41419						.41420
	F	0.46004			0.46002						.46003

Remarks:

FINAL

Set No.	Filter No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
73	Pres	0.50020	Qa	1/11/81	0.50017	Qa	1/11/81				0.50018
	0	0.44636			0.44633						0.44635
	1	0.43786			0.43782						0.43784
	2	0.44685			0.44683						0.44684
	3	0.41410			0.41406						0.41408
	4	0.41887			0.41884						0.41886
	5	0.42218			0.42215						0.42217
	6	0.42475			0.42475						0.42475
	7	0.40416			0.40414						0.40415
	F	0.47471			0.47468						0.47470
74	Pres	0.47899	Qa	1/11/81	0.47895	Qa	1/11/81				0.47897
	0	0.40731			0.40727						0.40729
	1	0.40671			0.40668						0.40670
	2	0.41493			0.41489						0.41491
	3	0.40714			0.40711						0.40713
	4	0.42108			0.42106						0.42107
	5	0.40298			0.40294						0.40296
	6	0.42516			0.42514						0.42515
	7	0.41805			0.41802						0.41804
	F	0.46080			0.46079						0.46080
75	Pres	0.46690	Qa	1/11/81	0.46690	Qa	1/11/81				0.46690
	0	0.41722			0.41721						0.41722
	1	0.43445			0.43445						0.43445
	2	0.44596			0.44592						0.44594
	3	0.43718			0.43718						0.43718
	4	0.44637			0.44638						0.44638
	5	0.45206			0.45206						0.45206
	6	0.45037			0.45036						0.45037
	7	0.42305			0.42303						0.42304
	F	0.49319			0.49317						0.49318

Remarks:

Project No. Date of Work: Work Performed by:

Title or Purpose: Continued From:

* BEAKER #1 WAS USED FOR EXCESS FILTER DEBRIS IT WAS DESICATED AND WEIGHED
BEAKER # 3 & 7 WERE USED FOR WASHES, THEIR TOTAL ml of ACETONE WAS 300ml

1-10, 13, 15-18 & 21 were voided samples. All were stored; capped w/ Al foil.

BEAKERS NOS 55, 1, 84, 74, 92, 65 WERE IN EXCESS OF 100g. THERE FOR THEY WERE WEIGHED ON A METTLER TYPE H6 DIG. CAPACITY = 160g NO. 188834 IN THE PFIZER LABORATORY. THE BALANCE WAS CHECKED WITH A 100mg WEIGHT
THE 100mg WEIGHT = 99.99mg

TWO FILTERS #48
IDENTICAL RUN# NUMBERS
① 0.67140, 0.67095
~~2. [illegible]~~,
② 0.65150, 0.65171

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891L93 Date of Work: 10/17/80 Work Performed by: [illegible]

Title or Purpose: BEAKER TAPE WEIGHTS (GRAMS) Continued From:

VOL. (ml)	~~Filter~~ No. BEAKER	~~Final~~ TAPE GRAMS One	~~Final~~ TAPE GRAMS Two	~~Final~~ TAPE GRAMS Three	GRAMS Average
300	1 BAG-I-1-4	90.89381	90.89445	90.89432	90.89439
	2 BAG-0-0-	88.33572	88.33831	88.33810	88.33821
FILTER DUST	3 BAG-I-1-4	92.37125	92.37170		92.37148
140 ml	4 BAG-0-1-3	86.84781	86.84850		86.84816
347 ml	5 BAG-I-1-3	87.50522	87.50713	87.50722	87.50718
SIZE 5	6 BAG-I-1-3	78.84655	78.84701		78.84678
SIZE 1	7 BAG-I-1-4	90.24676	90.24655		90.24666
176 ml	8 BAG 0-1-4	87.54224	87.54269		87.54247
325	9 BAG-I-2-4(1)	83.47187	83.47177		83.47182
226 ml	10 10-21-80 ACETONE BLANK	89.63755	89.63774		89.63765
		80.73050	80.72385		
202	12 ESP-I-3-1	85.99600	85.99068	85.98753 85.98113	85.98733
SIZE 9	13 BAG-I-2-4(1)	88.57415	88.54405	88.54430	88.54418
	14 BA	86.48450	86.48002	86.47939	VOID
192	15 BAG-0-2-3(1)	79.61100	79.61148		79.61124
210 ml	16 10-22-80 ACETONE BLANK	85.76212	85.76176		85.76194
280 ml	17 BAG-I-2-3	95.16780	95.16735		95.16758
SIZE 17	18 BAG-I-2-3	85.37206	85.37160		85.37183
150	19 DC-2-2	91.28848	91.28964	91.28839 91.28800	91.28820
200	20 ESP-I-3-2	80.72465	80.72422		80.72443
190 ml	21 BAG-0-2-4	85.58630	85.58626		85.58628

Comment:

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891-493 Date of Work: 10-22-80 Work Performed by: JJ

Title or Purpose: Continued From:

VOL (ml)	~~Filter~~ No. BEAKER	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	Final Three GRAMS	Average GRAMS
	22				
176	23 ACETONE BLANK 10-23-80	82.56347	82.56324		82.56336
131	24 BAG 0-2-3 (2)	84.06136	84.06149		84.06143
177	25 BAE043	92.45063	92.45025		92.45044
140	26 ACETONE BLANK 10-25-80	86.58637	86.59865	86.59824	86.59845
92	27 BAG 0-3-4	83.76452	83.76444		83.76448
	28				
	29				
	30	~~89.633~~			
300	31 BAG I-3-4	89.63339	89.63360		89.63350
	32	85.48721	85.48743		85.48732
	33				
160	34 ESP-0-1-1(1)	85.22476	85.22623	85.22400 85.22428	~~85.22414~~ ~~85.22550~~
SEE 31	35 SEE BAG I-3-4	89.52875	89.52864		89.52870
300	36 BAG I-4-4	85.49186	85.49172		85.49179
255	37 BAG I-2-4 (2)	81.57041	81.57081		81.57061
220	38 BAG I-3-3	88.76962	88.76949		88.76956
	39 ACETONE BLANK 10/24/80	88.57736	88.57779		88.57758
	40				
	41				
	42 BAG I-4-4	85.97016	85.97062		85.97039
SEE 25 #36					

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: 10-23-80 Work Performed by: JJ

Title or Purpose: Continued From:

VOL	~~Filter~~ No. BEAKER	~~Final TARE~~ One GRAMS	~~Final TARE~~ Two GRAMS	Final Three GRAMS	Average GRAMS
	43				
	44				
188	(45) BAG O-3-3	88.18392	88.18437		88.18415
225	(46) ESP-O-4-3(1)	90.18570	90.18599		90.18585
	47				
	48				
105	49 ACETONE BLANK 10-27	86.67760	86.67212	86.67261	86.67237
310	50 BAG I-4-3	87.82022	87.82072		87.82047
160	(51) ESP O-3-4	91.33654	91.33648		91.33651
	(52) BAG I-4-3	89.12948	89.12982		89.12965
	(53) BAG I-2-4(2)	73.16019	73.16030		73.16025
170	(54) BAG O-4-4	84.95266	84.95310		84.95288
175	(55) ESP-I-1-1	93.99269	93.99330	93.99373	93.99352
265	(56) ESPI-2-4	91.30597	91.30565		91.30581
	57				
	58				
160	(59) ESPO-3-1	86.66239	86.66234		86.66237
185	(60) ESP-O-3-2	92.62852	92.62861		92.62857
	61				
	62				
175	(63) ESP-O-1-3	86 34881	86.34930		86.34906

Comment: #45 possibly contains oil

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-193 Date of Work: OCTOBER 29, 1980 Work Performed by: I.P.

Title or Purpose: Continued From:

V.i	~~Filter~~ No. BEAKER	~~Final~~ Tare One GRAMS	~~Final~~ Two GRAMS	~~Final~~ Three GRAMS	Tare Average GRAMS
	64				
228	65 ESP I-3-3	90.90040	90.90085		90.90063
SEE 56	66 ESP I-2-4	76.23920	76.23934		76.23927
	67				
	68				
152	69 ESP-0-4-2	86.93327	86.93300		86.93314
10 & 10	70 10-29-80 ACETONE BLANK	78.44751	78.44720		78.44736
330	71 ESP-I-4-4	85.14753	85.14618	85.14652	85.14635
125	72 ESP-0-3-3	81.90345	81.90580	81.90350 81.90386	81.90368
	73	*broken			
222	74 ESP-I-1-2	88.59613	88.59645		88.59629
	75				
110	76 ESP-0-2-2	84.54606	84.54576		84.54591
SEE #71	77 ESP-I-4-4	83.19793	83.20072	83.20045	83.20059
210	78 ESP-I-2-1	86.81034	86.81035	86.81088	86.81112
	79				
175	80 ESP-0-4-1	83.94654	83.94566	83.94547	83.94557
230	81 ESP-0-4-2	82.29216	82.29345	82.29310	82.29327
158	82 ESP-0-2-3	82.22273	82.29143	82.29164	82.29153
100	83 10-28-80 ACETONE BLANK	89.91056	89.91011		89.91034
185	84 ESP-I-3-4	88.48473	88.48500		88.48486

Comment: BEAKER #73 CRACKED - DISCARDED BEAKER

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-193 Date of Work: OCTOBER 30, 1980 Work Performed by: J.B

Title or Purpose: Continued From:

BEAKER TARE WEIGHTS

Vol.	~~Sample~~ No. BEAKER	~~Final~~ One GRAMS	~~Final~~ Two GRAMS	~~Final~~ Three GRAMS	Tare Average GRAMS
125	85 ESP-I-2-2	86.02114	86.02103		86.02109
180	86 ESP-I-4-3	84.10366	84.10199	84.10169	84.10184
	87				
130	88 ESP-0-2-4	89.81600	89.81648		89.81624
	89				
108	90 10-30-80 ACETONE BLANK	91.40476	91.40491		91.40483
154	91 10-31-80 ACETONE BLANK	84.79932	84.79958		84.79945
130	92 ESP-I-4-1 (1)	89.74831	89.74923	89.74904	89.74913
125	93 ESP-0-2-1	88.05010	88.04969		88.04990
112	94 ESP-I-1-4 (1)	95.46200	95.46177		95.46189
255	95 ESP-I-4-2	86.64737	86.64691		86.64714
170	96 ESP-I-2-4 (1)	90.01450	90.01300	90.01284	90.01292
245	97 ESP-0-4-4	89.81344	89.81000	89.81032	89.81016
200	98 ESP-I-2-3	83.35930	83.35894		83.35912
145	99 ESP-0-1-2 (2)	86.31132	86.31004	86.30988	86.30996
215	100 ESP-0-4-3 (2)	80.79025	80.78819	80.78842	80.78831
145	101 DC-1-2	82.91621	82.91580		82.91601
230	102 ESP-I-1-4 (1)	88.05513	88.05337	88.05336	88.05337
2.5	103 ESP-I-1-3 (2)	80.34000	80.33600	80.33623	80.33612
	104 ESP-I-1-4 (2)	93.28020	93.27884	93.27866	93.27875
	105 11/5/80 ACETONE BLANK	96.93625	96.93510	96.93551	96.93531

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov 9, 1980 Work Performed by: J Pawelonis

Title or Purpose: BEAKER TARE WEIGHTS Continued From:

	~~Filter~~ No. BEAKER	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
	106				
180	107 ESP-O-1-1(2)	81.57161	81.57115		81.57138
	108				
	109				
250	110 ESP-I-1-3(1)	82.89193	82.88993	82.88956	82.88975
	111				
140	112 DC-1-3	91.59160	91.59028	91.59036	91.59032
105	113 BAG-O-1-4	92.92921	92.92800	92.92841	92.92820
115	114 11/3 & 11/4/80 ACETONE BLANK	83.65427	83.65448		83.65438
155	115 BAG-I-1-2	88.18493	88.18400	88.18405	88.18402
120	116 BAG-O-1-3	89.63502	88.63312	88.63305	88.63308
345	117 ESP-I-4-1(2)	77.16286	77.16322		77.16304
134	118 DC-1-2 MASS	87.64445	87.64364	87.64383	87.64374
130	119 DC-1-4	85.90741	85.90700		85.90721
140	20 BAG-I-1-4	88.63011	88.62762	88.62789	88.62775
130	21 ACETONE BLANK 12-2-80, 12-3-80	95.51700	95.51600	95.51593	95.51596
60	22 FILTER # 84 BLANK 11/8/80	88.12528	88.12562		88.12545
88	23 BAG-O-1-2	88.85887	88.85765	88.85772	88.85768
80	24 FILTER BLANK #58 11-8/80	93.51288	93.51318		93.51303
156	25 BAG-I-1-3	85.37256	85.37210		85.37233
125	126 ACETONER 12-4-80	95.86911	95.86780	95.86773	95.86776

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. Date of Work: Work Performed by:

Title or Purpose: Continued From:

~~Filter~~ BEAKER No.	Final One	Final Two	Final Three	Average
127 ★				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137				
138				
139				
140				
141				
142				
143				

Comment: BEAKERS 127 AND ABOVE ARE RECORDED IN NEW LAB BOOK

Continued To: Disclosed To And Understood By Me:

Date:

Entered By: Date:

Date:

Project No. Date of Work: Work Performed by:

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~Filter~~ BEAKER No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
1	113.7973	113.7969		113.7971
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12 ESP-I-31	98.30984	98.31094	98.31089	98.31092
13				
14				
15				
16				
17				
18				
19				
20	96.88885	96.89344	96.89313	96.89329
21				

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. Date of Work: /0 - Work Performed by: J.J.

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~Filter~~ BEAKER No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
22				
23	82.56119	82.56300	82.56324	82.56312
24	84.08119	84.08070		84.08095
25	92.46488	92.46453		92.46471
26	86.58322	86.58344		86.58333
27	83.77629	83.77591		83.7760
28				
29				
30				
31	90.73776	90.74273	90.74318	90.74296
32				
33				
34	85.51180	85.51078	85.50815 85.50824	85.50820
35	90.06631	90.06799	90.06813	90.06806
36	~~86.0131~~ 87.68296	~~86.01646~~	87.68333	87.68315
37	81.69535	81.69511		81.69523
38	90.22822	90.22827		90.22825
39	88.57776	88.57759		88.57768
40				
41				
42	86.89897	86.89887		86.89892

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-293 Date of Work: Nov 3, 1980 Work Performed by: J. Purkins

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~Filter~~ BEAKER No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
43				
44				
45	88.24053	88.24010		88.24032
46	90.46018	90.45974		90.45996
47				
48				
49	86.67488	86.67445		86.67467
50	88.45118	88.45263	88.45305	88.45284
51	91.71355	91.71316		91.71336
52	90.66785	90.67249	90.67212	90.67231
53	74.12880	74.12883		74.12882
54	84.96655	84.96825	84.96806	84.96810
55	102.4566	102.4500	102.4502	102.4501
56	93.56142	93.56115		93.56129
57				
58				
59	87.41941	87.42351	87.42367	87.42359
60	92.86506	92.86649	92.86615	92.86632
61				
62				
63	86.71099	86.70987	86.71025	86.71006

Comment:

Continued To:

Disclosed To And Understood By Me:

Entered By:

Date:

Date:

Date:

Project No. 4891-193 Date of Work: Nov 8, 1980 Work Performed by: J Parsons

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~File~~ No. BEAKER	Final GRAMS One	Final GRAMS Two	Final GRAMS Three	GRAMS Average
64				
65	109.3422	109.3381	109.3404-109.3407	109.3406
66	89.16270	89.16295		89.16283
67				
68				
69	87.15808	87.15633	87.15661	87.15647
70	78.44855	78.44806		78.44831
71	86.98055	86.98139	86.98092	86.98116
72	82.14467	82.14433		82.14450
73				
74	100.1768	100.1754	100.1759	100.1757
75				
76	84.78625	84.78968	84.78947	84.78958
77	97.37407	97.37435		97.37421
78	98.97960	98.98200	98.98168	98.98184
79				
80	84.16205	84.16236		84.16221
81	82.67581	82.67625		82.67603
82	82.57505	82.57491		82.57498
83	89.91587	89.91541		89.91564
84	103.94743	103.9514	103.9496 103.9492	103.9494

Comment:

Continued To:

Disclosed To And Understood By Me:

Date:

Entered By:

Date:

Date:

Project No. 4891-L93 Date of Work: Nov 9, 1980 Work Performed by: J Pavlovna

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~Filter~~ Beaker No.	Final Grams One	Final Grams Two	Final Grams Three	Average Grams
85	98.44878	98.45186	98.45140	98.45163
86	95.56300	95.56579	95.56539	95.56559
87				
88	90.23800	90.93782		90.58791
89				
90	91.40882	91.41520	91.40766 91.40797	91.40781
91	84.80322	84.80279		84.80300
92	106.1986	106.1951	106.1954	106.1953
93	88.22105	88.21966	88.22006	88.21986
94 ✓	99.03163	99.03009	99.03050	99.03029
95 ✓	101.1958	101.1953		101.1955
96	90.15872	90.15959	90.15942	90.15951
97	90.02909	90.03052	90.03043	90.03047
98 ✓	101.6181	101.6173	101.6171	101.6172
99	86.42681	86.42640		86.42661
100	81.11615	81.11585		81.11600
101 DC 1-2	83.38700			83.38700
102	90.39256	90.39299		90.39277
103	92.25587	92.25560		92.25573
104 ✓	114.3485	114.3489	—	114.3487
105 11/5/80 ACETONE BLANK	96.93566	96.93607		96.93587

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov. 10, 1980 Work Performed by: AP.

Title or Purpose: BEAKER FINAL WEIGHTS Continued From:

~~Filter~~ BEAKER No.		Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
106					
107		81.96091	81.96053		81.96072
108					
109					
110	✓	89.13394	89.13467	89.13445	89.13456
111					
112		93.76309	93.76168	93.76155	93.76161
113		92.97889	92.97790	92.97785	92.97787
114	✓	83.65407	83.65409		83.65408
115		89.41624	89.41861	89.41831	89.41846
116		89.67798	89.67874	89.67846	89.67860
117	✓	91.30600	91.30647		91.30623
118		91.10857	91.10897		91.10877
119		88.03744	88.03786		88.03765
120		89.89704	89.89827	89.89810	89.89818
121		95.51905	95.51939		95.51922
122		88.15159	88.15115		88.15137
123		88.90737	88.90726		88.90731
124		93.53353	93.53527	93.53493	93.53510
125		87.23482	87.23523		87.23502
126 (125)	12-4-80 ACETONE BLANK	95.82298	95.82285		95.82292

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891L93 Date of Work 10/18/80 Work Performed by: JW

Title or Purpose: FILTER TARE WEIGHTS 3½" & 4" Continued From:

Filter No. / RUN #	~~Final~~ One TARE GRAMS	~~Final~~ Two TARE GRAMS	~~Final~~ Three TARE GRAMS	Average GRAMS
(1)	0.22128	0.30660	0.30670	0.30665
(2)	0.30950	0.30920		0.30935
(3)*	0.30325	0.30282	0.30255	0.30269
(4)	0.30809	0.30804		0.30807
(5) ESP 0-1-1(1)	0.30831	0.30839		0.30835
(6)	0.78543	0.78540		0.78542
(7)	0.78000	0.77986		0.77993
(8) NO GOOD	0.78780	0.78791		0.78786
(9)	0.77747	0.77795		0.77771
(10)	0.77713	0.77735		0.77724
(11)	0.77920	0.77913		0.77917
(12)	0.76942	0.76992		0.76967
(13)	0.77287	.77275		0.77281
(14) BAG 0-3-4	0.30963	0.30915		0.30939
(15) BAG 0-3-3	0.29680	0.29727		0.29704
(16) BAG 0-2-3	0.29953	0.29912		0.29933
(17)	0.29846	0.29835		0.29841
(18) ESP-0-1-1(2)	0.30421	0.30400		0.30411
(19) BAG 0-4-3	0.30137	0.30108		0.30123
(20) ESP-0-1-2(2)	0.30905	0.30890		0.30898
(21) BAG I-4-4	0.77410	0.77429		0.77420

Comment: AVERAGE FILTER TARE Wt. WAS DERIVED by TAKING THE AVERAGE OF THE LAST TWO WEIGHTS THAT WERE WITHIN 0.5mg

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

Project No. 4891 L93 Date of Work: 10-21-80 Work Performed by: JJ

Title or Purpose: FILTER TARE WEIGHTS Continued From: 31

Filter No./Run #	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
(22)	0.76894	0.76858		0.76876
(23) NO GOOD	0.77490	0.77613	0.77600	0.77607
(24)	0.77895	0.77900		0.77898
(25) BAG I-3-4	0.77950	0.77983		0.77967
BAG I-4-3	0.78039	0.78037		0.78038
BAG O-44	0.30830	0.30858		0.30844
BAG I-3-3	0.77714	0.77634	0.77600	0.77617
NO GOOD	0.78114	0.78200	0.78209	0.78205
BAG I-2-4	0.78835	0.78926	0.78800	0.78913
ESP I-1-3(1)	0.78440	0.78571	0.78500	0.78536
ESP I-1-4	0.78745	0.78806	0.78800	0.78803
ESP I-1-3(2)	0.78577	0.78726	0.78728	0.78727
ESP I-1-4(2)	0.77617	0.77510	0.77537	0.77524
ESP I-2-3	0.79055	0.79009		0.7903[illegible]
ESP-I-2-4	0.78023	0.78003		0.7801[illegible]
ESP-I-3-3	0.78705	0.78752		0.7872[illegible]
ESP I-3-4	0.78694	0.78650		0.7867[illegible]
	0.78025	0.77800	0.77823	~~0.7791[illegible]~~
(40)	0.78002	0.78000		0.7800[illegible]
(41)	0.78157	0.78109		0.7813[illegible]
(42) ESP-I-1-2	0.77758	0.77100		0.7772[illegible]

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. Date of Work: 10-21-80 Work Performed by: JJ S.P.

Title or Purpose: FILTER TARE WEIGHTS Continued From:

Filter No.	~~Final~~ TARE One GRAMS	~~Final~~ TARE Two GRAMS	~~Final~~ TARE Three GRAMS	Average GRAMS
43 ESP-0-1	0.30421	0.30420		0.30421
44 ESP-0-2-2	0.30877	0.30836		0.30857
45 ESP-0-3-1	0.30379	0.30351		0.30365
46 ESP-0-3-2	0.30887	0.30805	0.30854	0.30830
47	0.30576	0.30564		0.3057
48 ESP-0-4-2	0.30168	0.30159		0.30164
49	0.29683	0.29709		0.29696
50	0.30659	0.30673		0.30667
51	0.77777	0.77732		0.77755
52 ESP-I-2-2	0.77446	0.77402		0.77424
53	0.77387	0.77390		0.77389
54	0.78360	0.78200	0.78182	0.78191
55	0.77314	0.77364		0.77339
56	0.75961	0.75789	0.75765	0.75777
57	0.77127	0.76938	0.76970	0.76954
58	0.77700	0.77629	0.77654	0.776415
59	0.78000	0.78045		0.78024
60	0.77620	0.77489	0.77485	0.77487
61	0.77430	0.77260	0.77278	0.77269
62	0.78762	0.78600	0.78593	0.78597
63	0.79090	0.78933	0.78934	0.78933

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. Date of Work: 10-29-80 Work Performed by: [signature]

Title or Purpose: FILTER TARE WEIGHTS Continued From:

Filter No. / RUN #	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	Average GRAMS
64	0.78811	0.78776		0.78793
65	0.79484	0.79274	0.79396 / 0.79355	0.79375
66	0.78895	0.78737	0.78745	0.78741
67	0.78295	0.78315		0.78305
68	0.78560	0.78435	0.78435	0.78435
69	0.78261	0.78236		0.78248
70	0.77474	0.77435		0.77454
71	0.77193	0.77048	0.77000	0.77024
72 NO GOOD	0.30232	0.30078	0.30064	0.30071
73	0.30806	0.30732	0.30744	0.30738
74	0.30885	0.30800	0.30777	0.30788
75	0.31152	0.31105		0.31128
76	0.30640	0.30520	0.30512	0.30516
77	0.30200	0.30135	0.30111	0.30123
78	0.30242	0.30227		0.30234
79	0.30488	0.30503		0.30495
80	0.30352	0.30402		0.30377
81 NO GOOD	0.30500	0.30510		0.30505
82	0.31178	0.31087	0.31065	0.31076
83	0.29900	0.29898		0.29899
84	0.30400	0.30254	0.30213	0.30233

Comment:

Continued To: Disclosed To And Understood By Me:

Date:

Entered By:

Date:

Date:

Project No. Date of Work: 10-29-80 Work Performed by: Johnson Parsons

Title or Purpose: FILTER TARE WEIGHTS Continued From:

Filter No. / RUN #	~~Final~~ TARE GRAMS One	~~Final~~ TARE GRAMS Two	~~Final~~ TARE GRAMS Three	GRAMS Average
85	0.30875	0.30836		0.30855
86	0.30900	0.30712	0.30700	0.30706
87	0.30756	0.30712		0.30734
88	0.30500	0.30452		0.30476
89	0.29900	0.29855		0.29877
90	0.30585	0.30453	0.30455	0.30454
91	0.30671	0.30692		0.30681
92 *				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				

Comment: FILTERS #92 AND ABOVE ARE RECORDED IN NEW LAB BOOK

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891 Date of Work: Nov. 8, 1980 Work Performed by: J. Pavelowo

Title or Purpose: FILTER FINAL WEIGHTS Continued From:

Filter No.	Final One	Final Two	Final Three	Average
1				
2				
3				
4				
(5) ESP-0-1-1	0.61042	0.60998		0.61020
6				
7				
8				
9				
10				
11				
12				
13				
(14) BAG-0-3-4	0.31274	0.31271		0.31273
(15) BAG-0-3-3	0.30225	0.30254		0.30239
(16) BAG-0-2-3	0.30630	0.30483	0.30515	0.30499
(17) ESP-0-1-2(1)	0.62760	0.62728		0.62744
(18) ESP-0-1-1(2)	0.81200	0.80480	0.80521	0.80501
(19) BAG-0-4-3	0.30445	0.30593		0.30519
(20) ESP-0-1-2(2)	0.59340	0.59308		0.59324
(21) BAG-4-4	0.94200	0.94173		0.94187

Comment:

Disclosed To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Nov. 5 1980 Work Performed by: JP.

Title or Purpose: FILTER FINAL WEIGHTS - 3½", 4" Continued From:

Filter No.	Final GRAMS One	Final GRAMS Two	Final GRAMS Three	GRAMS Average
22				
23				
24				
25 BAG I-3-4	2.17072	2.17099		2.17085
26 BAG I-4-3	2.18723	2.18688		2.18705
27 BAG-O-4-4	0.31003	0.30975		0.30989
28 BAG I-33	1.94412	1.94500	1.94486	1.94493
29				
30 BAG-I-2-4	1.61747	1.61707		1.61727
31 ESP-I-1-3(1)	11.90988	11.89898	11.89855	11.89877
32 ESP-I-1-4(1)	10.84460	10.83394	10.83417	10.83405
33 ESP-I-1-3(2)	0.93233	0.93229		0.93231
34 ESP-I-1-4(2)	0.98790	0.98516	0.98543	0.98529
35 ESP-I-2-3	1.32013	1.30855	1.30894	1.30875
36 ESP-I-2-4	0.97985	0.97478	0.97509	0.97493
37 ESP-I-3-3	0.89326	0.89312		0.89319
38 ESP-I-3-4	1.05722	~~1.10039~~	1.05301	1.05711
39 ESP-I-4-3	1.13877	1.13982	1.13975	1.13979
40 ESP-I-4-4	0.90477	0.90369	0.90405	0.90438
41 ESP-I-1-1	0.99565	0.99350	0.99395	0.99373
42 ESP-I-1-2	0.96787	0.96526	0.96565	0.96545

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: Work Performed by: J. Parsons

Title or Purpose: FILTER FINAL WEIGHTS – 3½", 4" Continued From:

Filter No.	Final Grams One	Final Grams Two	Final Grams Three	Grams Average
43 ESP-0-2-1	0.63209	0.63183		0.63196
44 ESP-0-2-2	0.72623	0.72118	0.72162	0.72140
45 ESP-0-3-1	0.38875	0.38875		0.38875
46 ESP-0-3-2	0.67790	0.67749		0.67769
47 ESP-0-4-1	0.70330	0.70375		0.70353
48 ESP-0-4-2	0.67140	0.67095		0.67117
49 ESP-0-1-3	0.69321	0.69283		0.69302
50 ~~[illegible]~~	~~[illegible]~~			
51 ESP-I-2-1	0.85960	0.85967		0.85963
52 ESP-I-2-2	2.02278	2.02201	2.02235	2.02218
53 ESP-I-3-1	0.93800	0.93775		0.93787
54 ESP-I-4-1(1)	1.27439	1.27000	1.27043	1.27021
55 ESP-I-3-2	0.98859	0.98778	0.98763	0.98771
56 ESP-I-4-2	1.33667	1.33076	1.33110	1.33093
57 ESP-I-4-1(2)	1.00414	0.99773	0.99816	0.99795
58 FILTER BLANK 11/3/80	0.77362	0.77325		0.77343
59 BAG-I-1-4	1.66025	1.65993		1.66009
60 BAG-I-1-3	2.15890	2.15863		2.15876
61 DC-1-3	1.38705	1.38745		1.38725
62 BAG-I-1-2	1.67911	1.67958		1.67934
63 DC-1-4	1.11544	1.11523		1.11533

Comment:

Continued To:

Disclosed To And Understood By Me:

Date:

Entered By:

Date:

Date:

Project No. 4891-L93 Date of Work: Nov. 5, 1980 Work Performed by: J Pawlowski

Title or Purpose: FILTER FINAL WEIGHTS Continued From:

Filter No.	Final One GRAMS	Final Two GRAMS	Final Three GRAMS	Average GRAMS
64	1.17186	1.17136		1.17161
65 BAG-I-2-2	1.70991	1.70952		1.70971
66	2.29442	2.29413		2.29427
67	1.49263	1.49288		1.49275
68	2.81502	2.81463		2.81483
69 DC-2-2	1.00531	1.00557		1.00544
70 BAG-I-2-3	1.95002	1.94973		1.94987
71 DC-2-3	1.14714	1.14707		1.14710
72				
73 ESP-0-3-4	0.63335	0.63296		0.63315
74 ESP-0-4-3	0.60500	0.60463		0.60481
75 ESP-0-2-3	0.70379	0.70300	0.70342	0.70321
76 ESP-0-4-3(2)	0.54753	0.54709		0.54731
77 ESP-0-4-4	0.49389	0.49351		0.49370
78				
79 ESP-0-2-4	0.62000	0.61978		0.61985
80 ESP-0-3-3	0.64270	0.64232		0.64251
81				
82 D.C.-1-2	0.37798	0.37728	0.37715	0.37722
83 D.C.-2-2	0.33678	0.33508	0.33537	0.33522
84 FILTER BLANK 11/8/80	0.30280	0.30257		0.30269

Comment:

Continued To: Disclosed To And Understood By Me:

Entered By: Date:

Date: Date:

Project No. 4891-L93 Date of Work: DECEMBER 4, 1980 Work Performed by: A. SMALL

Title or Purpose: FILTER FINAL WEIGHTS Continued From:

Filter No.	Final One	Final Two	Final Three	Average
85 BAG-0-1-4	0.30876	0.30862		0.30869
86 DC-1-2	0.38554	0.38492	0.38495	0.38493
87 BAG-0-1-3	0.30785	0.30802		0.30793
88 BAG-0-1-2	0.30600	0.30561		0.30580
89 BAG-0-1-1	0.29859	0.29810		0.29834
90 BAG-0-2-1	0.31148	0.30531	0.30502	0.30517
91 BAG-0-2-2	0.31100	0.31067		0.31083

Comment:

Continued To:

Entered By:

Date:

Disclosed To And Understood By Me:

Date:

Date:

TARE WEIGHTS

Filter No.	Run I.D. No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
✓92		0.49744	as	12/03/80	0.49721	as	12/03/80				0.49732
✓93		0.49458	as	12/03/80	0.49415	as	12/03/80				0.49436
✓94		0.49600	as	12/03/80	0.49603	as	12/03/80				0.49601
✓95		0.49505	as	12/03/80	0.49487	as	12/03/80				0.49496
✓96		0.49967	as	12/03/80	0.49955	as	12/03/80				0.49961
✓97		0.49249	as	12/03/80	0.49260	as	12/03/80				0.49254
✓98		0.49552	as	12/03/80	0.49500	as	12/03/80	0.49512	as	12/03/80	0.49506
✓99		0.49604	as	12/03/80	0.49623	as	12/03/80				0.49613
✓100		0.49532	as	12/03/80	0.49526	as	12/03/80				0.49529
✓101		0.49845	as	12/03/80	0.49807	as	12/03/80				0.49826
✓102		0.49694	as	12/03/80	0.49647	as	12/03/80				0.49670
✓103		0.49743	as	12/03/80	0.49773	as	12/03/80				0.49758
✓104		0.49510	as	12/03/80	0.49522	as	12/03/80				0.49516
✓105		0.49853	as	12/03/80	0.49833	as	12/03/80				0.49843
✓106		0.49295	as	12/03/80	0.49285	as	12/03/80				0.49290
✓107		0.30887	as	12/03/80	0.30857	as	12/03/80				0.30872
✓108		0.30354	as	12/03/80	0.30341	as	12/03/80				0.30347
✓109		0.30675	as	12/03/80	0.30632	as	12/03/80				0.30653
✓110		0.30445	as	12/03/80	0.30415	as	12/03/80				0.30430
✓111		0.30123	as	12/03/80	0.30138	as	12/03/80				0.30130
✓112		0.30425	as	12/03/80	0.30447	as	12/03/80				0.30436
✓113		0.30699	as	12/03/80	0.30664	as	12/03/80				0.30681
✓114		0.30152	as	12/03/80	0.30130	as	12/03/80				0.30141
✓115		0.29677	as	12/03/80	0.29684	as	12/03/80				0.29680
✓116		0.29976	as	12/03/80	0.29968	as	12/03/80				0.29972
✓117		0.30408	as	12/03/80	0.30414	as	12/03/80				0.30411
✓118		0.31007	as	12/03/80	0.31023	as	12/03/80				0.31015
✓119		0.51905	as	12/03/80	0.51898	as	12/03/80				0.51901
✓120		0.52254	as	12/03/80	0.52275	as	12/03/80				0.52264
✓121		0.51228	as	12/03/80	0.51242	as	12/03/80				0.51235

Remarks:

TARE WEIGHTS

Filter No.	Run I.D. No.	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
122 ✓		0.49657	aa	12/04/80	0.49623	aa	12/04/80				0.49640
123 ✓		0.49573	aa	12/04/80	0.49566	aa	12/04/80				0.49569
124 ✓		0.49474	aa	12/04/80	0.49472	aa	12/04/80				0.49473
125 ✓		0.48907	aa	12/04/80	0.48892	aa	12/04/80				0.48899
126 ✓		0.49516	aa	12/04/80	0.49497	aa	12/04/80				0.49506
127 ✓		0.48698	aa	12/04/80	0.48655	aa	12/04/80				0.48676
128 ✓		0.49730	aa	12/04/80	0.49714	aa	12/04/80				0.49722
129 ✓		0.48893	aa	12/04/80	0.48854	aa	12/04/80				0.48873
130 ✓		0.49442	aa	12/04/80	0.49422	aa	12/04/80				0.49432
131 ✓		0.49078	aa	12/04/80	0.49048	aa	12/04/80				0.49063
132 ✓		0.49906	aa	12/04/80	0.49904	aa	12/04/80				0.49905
133 ✓		0.51862	aa	12/04/80	0.51832	aa	12/04/80				0.51847
134 ✓		0.51008	aa	12/04/80	0.51008	aa	12/04/80				0.51008
135 ✓		0.49860	aa	12/04/80	0.49842	aa	12/04/80				0.49851
136 ✓		0.50054	aa	12/04/80	0.50018	aa	12/04/80				0.50036
137 ✓		0.50426	aa	12/04/80	0.50403	aa	12/04/80				0.50414
138 ✓		0.51061	aa	12/04/80	0.51027	aa	12/04/80				0.51044
139 ✓		0.51301	aa	12/04/80	0.51293	aa	12/04/80				0.51297
140 ✓		0.50257	aa	12/04/80	0.50233	aa	12/04/80				0.50245
141 ✓		0.51097	aa	12/04/80	0.51091	aa	12/04/80				0.51094

Remarks:

FINAL WEIGHTS

Filter No.	Run I.D. No.	First Weigh			Second Weigh			Third Weigh			Average Weight
		Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓92	BAG-I-3-2	1.61337	aa	12/09/80	1.61288	aa	12/09/80				1.61313
✓93	DC-2-1	0.75598	aa	12/08/80	0.75553	aa	12/09/80				.75575
✓94	DC-3-3	0.85668	aa	12/09/80	0.85672	aa	12/09/80				0.85670
✓95	DC-3-1	0.75383	aa	12/08/80	0.75312	aa	12/09/80	0.75334	aa	12/09/80	0.75347
✓96	ESP-I-4-4	1.95498	aa	12/10/80	1.95466	aa	12/10/80				1.95482
✓97	BAG-I-3-1	1.66284	aa	12/09/80	1.66318	aa	12/09/80				1.66301
✓98	ESP-0-1-4(2)	0.95936	aa	12/09/80	0.95915	aa	12/09/80				.95925
99											
✓100	FILTER BLANK	0.49496	aa	12/10/80	0.49473	aa	12/10/80				
✓101	FILTER BLANK	0.49885	aa	12/10/80	0.49865	aa	12/10/80				
✓102	FILTER BLANK	0.49648	aa	12/09/80	0.49637	aa	12/09/80				
✓103	FILTER BLANK	0.49723	aa	12/10/80	0.49767	aa	12/10/80				
✓104	FILTER BLANK	0.49490	aa	12/10/80	0.49515	aa	12/10/80				
105											
106											
✓107	BAG-0-2-4	0.31226	aa	12/09/80	0.31180	aa	12/09/80				0.31203
✓108	BAG-0-3-2	0.30446	aa	12/09/80	0.30428	aa	12/09/80				0.30437
109											
✓110	FILTER BLANK	0.30315	aa	12/09/80	0.30308	aa	12/09/80				
✓111	FILTER BLANK	0.30081	aa	12/09/80	0.30121	aa	12/09/80				
✓112	FILTER BLANK	0.30430	aa	12/10/80	0.30411	aa	12/10/80				
✓113	FILTER BLANK	0.30611	aa	12/10/80	0.30646	aa	12/10/80				
✓114	FILTER BLANK	0.30121	aa	12/10/80	0.30143	aa	12/10/80				
115											
116											
117											
118											
119											
120											
121											

Remarks:

TARE WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol. ml	First Weigh Weight (g)	By	Date	Second Weigh Weight (g)	By	Date	Third Weigh Weight (g)	By	Date	Average Weight
✓127	DC-1-1	200 ml	82.30508	aa	12/03/80	82.30552	aa	12/04/80				82.30530
✓128	BAG 3-2	115	85.72748	aa	12/03/80	85.72747	aa	12/04/80				85.72747
✓129	ACETONE BLANK 12-5-80	154	87.62643	aa	12/03/80	87.62598	aa	12/04/80				87.62620
✓130	BAG I 2-2	163	89.84648	aa	12/03/80	89.84623	aa	12/04/80				89.84635
✓131	DC-2-3	148	89.80872	aa	12/03/80	89.80812	aa	12/04/80				89.80842
✓132	DC-2-1	165	90.00691	aa	12/03/80	90.00651	aa	12/04/80				90.00671
✓133	DC-2-2	205	84.83327	aa	12/03/80	84.83294	aa	12/04/80				84.83310
✓134	BAG I 1-1	195 ml	88.99651	aa	12/03/80	88.99622	aa	12/04/80				88.99636
✓135	BAG-D 1-1	70	85.01411	aa	12/03/80	85.01410	aa	12/04/80				85.01410
✓136	BAG-C 2-4	95	88.31017	aa	12/03/80	88.31005	aa	12/04/80				88.31011
✓137	ACETONE BLANK 12-5-80	146	84.87933	aa	12/03/80	84.87912	aa	12/04/80				84.87922
✓138	DC-3-3	156	85.43131	aa	12/03/80	85.43122	aa	12/04/80				85.43126
✓139	BAG-I 2-3	200	90.39619	aa	12/03/80	90.39588	aa	12/04/80				90.39603
✓140	BAG-D 2-2	75	87.81967	aa	12/03/80	87.81945	aa	12/04/80				87.81956
✓141	BAG-D 2-1	145	89.31933	aa	12/03/80	89.31921	aa	12/04/80	89.31934	aa	12/04/80	89.31927
✓142	DC-2-4	223	87.30733	aa	12/03/80	87.30715	aa	12/04/80				87.30724
✓143	BAG-I 2-1	208	86.75524	aa	12/03/80	86.75497	aa	12/04/80				86.75510
✓144	BAG-I 3-1	203	90.43102	aa	12/03/80	90.43073	aa	12/03/80				90.43087
✓145	ACETONE BLANK 12-5-80	165	88.94202	aa	12/03/80	88.94197	aa	12/03/80				88.94202
✓146	ESP-C 1-4(2)	222	91.86000	aa	12/03/80	91.86008	aa	12/03/80				91.86004
✓147	BAG I 3-2	235	94.99403	aa	12/03/80	94.99362	aa	12/03/80				94.99382
✓148	FILTER BLANK #114	48	93.50078	aa	12/03/80	93.50042	aa	12/03/80				93.50060
✓149	ACETONE BLANK 12-4-80	160	92.93362	aa	12/03/80	92.93398	aa	12/03/80				92.93380
150	DC-3 1	220	93.12438	aa	12/03/80	93.12356	aa	12/03/80				93.12412
✓151	FILTER 104 BLANK	55	94.41772	aa	12/03/80	94.41753	aa	12/03/80				94.41772
✓152	FILTER BLANK #100	52	93.86971	aa	12/03/80	93.86970	aa	12/03/80				93.86970
✓153	FILTER BLANK #113	48	94.22297	aa	12/03/80	94.22283	aa	12/03/80				94.22290
✓154	FILTER BLANK #103	53	81.93544	aa	12/03/80	81.93534	aa	12/03/80				81.93539
✓155	FILTER BLANK #112	36	91.42500	aa	12/03/80	91.42473	aa	12/03/80				91.42486
156	ESP-I 4-4	285	91.08811	aa	12/03/80	91.08856	aa	12/03/80				91.08833

Remarks: ID RUN ESP-I-4-4-#2 BEAKERS USED

TARE WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
157 ✓	ESP-I 4-4	SEE BEAKER #156	85.40724	as	12/08/80	85.40741	as	12/09/80				85.40733
158			92.39139	as	12/08/80							
159			93.06160	as	12/08/80							
160			92.94582	as	12/08/80							
161			93.58775	as	12/08/80							
162			94.14049	as	12/08/80							
163			88.44418	as	12/08/80							
164			93.60836	as	12/08/80							
165			94.58251	as	12/08/80							
166			94.21340	as	12/08/80							
167			92.21309	as	12/08/80							
168			89.03930	as	12/08/80							
169			91.88064	as	12/08/80							
170			92.84491	as	12/08/80							
171			92.02826	as	12/08/80							
172			94.42284	as	12/08/80							

Remarks:

FINAL WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
✓127			84.47221	as	12/09/80	84.47246	JP	12/5/80				84.47233
✓128			85.76797	as	12/09/80	85.76648	as	12/10/80	85.76644	as	12/10/80	85.76646
✓129			87.62193	as	12/09/80	87.62147	as	12/10/80				87.62170
✓130			91.23176	as	12/08/80	91.22866	as	12/09/80	91.22902	as	12/10/80	91.22884
✓131			91.46075	as	12/08/80	91.46043	as	12/09/80				91.46059
✓132			91.48596	as	12/09/80	91.48578	as	12/10/80				91.47188
✓133			86.31862	as	12/08/80	86.31816	as	12/09/80				86.31839
✓134			90.61484	as	12/05/80	90.61849	JP	12/5/80	90.61871	as	12/6/80	90.61860
✓135			85.02669	as	12/08/80	85.02634	as	12/09/80				85.02651
✓136			88.34175	as	12/09/80	88.34200	as	12/10/80				88.34187
✓137			84.87848	as	12/09/80	84.87868	as	12/10/80				84.87858
✓138			87.35389	as	12/09/80	87.35363	as	12/10/80				87.35376
✓139			91.88884	as	12/09/80	91.88864	as	12/10/80				91.88874
✓140			87.83566	as	12/08/80	87.83579	as	12/09/80				87.83573
✓141			89.33694	as	12/08/80	89.33665	as	12/09/80				89.33679
✓142			88.25247	as	12/08/80	88.25217	as	12/09/80				88.25232
✓143			88.68807	as	12/08/80	88.68845	as	12/09/80				88.68826
✓144			91.99451	as	12/10/80	91.99417	as	12/10/80				91.99434
✓145			88.94310	as	12/10/80	88.94332	as	12/10/80				88.94321
✓146			92.09579	as	12/10/80	92.09612	as	12/10/80				92.09595
✓147			96.45175	as	12/09/80	96.44982	as	12/10/80	96.44979	as	12/10/80	96.44981
✓148			93.50871	as	12/10/80	93.50883	as	12/10/80				93.50877
✓149			92.93679	as	12/10/80	92.93653	as	12/10/80				92.93666
✓150			94.62226	as	12/09/80	94.62201	as	12/10/80				94.62213
✓151			94.42143	as	12/10/80	94.42121	as	12/10/80				94.42132
✓152			93.87271	as	12/10/80	93.87264	as	12/10/80				93.87267
✓153			94.22755	as	12/10/80	94.22753	as	12/10/80				94.22754
✓154			81.94221	as	12/10/80	81.94203	as	12/10/80				81.94212
✓155			91.42857	as	12/10/80	91.42826	as	12/10/80				91.42841
✓156			96.00619	as	12/10/80	96.00603	as	12/10/80				96.00611

Remarks:

FINAL WEIGHTS

Beaker No.	Run I.D. No.	Sample Vol.	First Weigh			Second Weigh			Third Weigh			Average Weight
			Weight (g)	By	Date	Weight (g)	By	Date	Weight (g)	By	Date	
V157			99.49913	aa	12/10/80	99.49884	aa	12/10/80				99.49899

Remarks:

APPENDIX G

CALIBRATION DATA

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date 9-8-80 Meter box number 2 Plant Columbia Nitrogen

Barometric pressure, P_b = 29.11 in. Hg Dry gas meter number [illegible] Pretest Y 1.012 @ 2" ΔH

Wet Meter Static Press. In. H_2O Pm	Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft³ *	Gas volume dry gas meter (V_d), ft³ 4.992	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i 1.010	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$	$\Delta H@_i$
-5.7	1.4	~~10~~ 4.928	~~5.104~~	68.6	90.8	74.3	82.6	7.667	5	~~1.020~~		1.930
-5.7	1.4	~~10~~ 4.928	4.947	68.83	89.8	77.5	83.65	7.648	5	1.020		1.911
-5.7	1.4	~~10~~ 4.928	4.947	68.9	93.0	78.7	85.83	7.703	5	1.024		1.934
										Y=	1.018	1.925

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft³.

V_d = Gas volume passing through the dry test meter, ft³.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y ±0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

Quality Assurance Handbook M8-2.4A

* $V_w = \left[\frac{P_b + (D_m/13.6)}{P_b}\right] \times$ Indicated Wet Volume

CALIBRATION-ORIFICE AND METER

ΔH and ΔY

Console No. 3

Operator RCS

Date 5-19-80

Use This Sample to Test Program Once, After Loading

1.0	86	28.90	75.3	9.1	5	Answer 1.90
Man. Orifice	OT_d	P_b	T_w	t	CF_w	ΔH
0.5						
1.0						
4.0						
6.0						
2.0	84.83	29.086	71.0	13.372	10	1.973

$$\Delta H_@ = \frac{.031(\Delta H)}{P_b(OT_d+460)}\left[\frac{(T_w+460)\,C}{CF_w}\right]^2$$

Use This Sample to Test Program Once, After Loading

1.0	28.90	5.13	75.3	97	86	28.90	5	Answer 1.00
Man. Orifice	P_b	CF_d	T_w	IT_d	OT_d	P_b	CF_w	ΔY
0.5								
1.0								
4.0								
6.0								
2.0	29.086	10.403	71.0	109.83	84.83	29.086	10	1.004

$$\Delta Y = \frac{(CF_w)(P_b)(T_{d_{avg}}+460)}{CF_d\left(P_b+\frac{\Delta H}{13.6}\right)(T_w+460)}$$

Tolerances

ΔY	0.99	1.00	1.01
ΔH	1.6	1.84	2.1

MRI - Form C2

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date 9-30-80 Meter box number 4 Plant MRI

Barometric pressure, P_b = 28.95 in. Hg Dry gas meter number _____ Pretest Y 1.01

Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft^3	Gas volume dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average (t_d)[a], °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
2	~~10~~ 5	5.110	75.93	95.7	84.7	90.2	[illegible]	15	1.00	
2	~~10~~ 6	6.161	75.9	105.4	87.6	96.5	7.70	15	1.01	
2	~~10~~ 5	5.134	75.9	112.2	90.7	101.45	6.37	15	[illegible]	0.99
									Y=	[illegible] 1.00

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry test meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y ±0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

CALIBRATION-ORIFICE AND METER

ΔH and ΔY

Console No. 5 Date 5-16-80

Operator RCS

$$\Delta H_@ = \frac{.031(\Delta H)}{P_b(OT_d+460)}\left[\frac{(T_w+460)}{CF_w}\right]^2$$

Use This Sample to Test Program Once, After Loading

1.0	86	28.90	75.3	9.1	5	Answer 1.90
Man. Orifice	OT_d	P_b	T_w	t	CF_w	ΔH
0.5						
1.0						
4.0						
6.0						
2.0	81.17	28.923	69.9	12.834	10	1.832

$$\Delta Y = \frac{(CF_w)(P_b)(T_{d_{avg}}+460)}{CF_d\,(P_b+\frac{\Delta H}{13.6})(T_w+460)}$$

Use This Sample to Test Program Once, After Loading

1.0	28.90	5.13	75.3	97	86	28.90	5	Answer 1.00
Man. Orifice	P_b	CF_d	T_w	IT_d	OT_d	P_b	CF_w	ΔY
0.5								
1.0								
4.0								
6.0								
2.0	28.923	10.358	69.9	103.67	81.17	28.923	10	1.001

Tolerances

ΔY	0.99	1.00	1.01
ΔH	1.6	1.84	2.1

MRI - Form C2

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date 9-5-80 Meter box number 6 Plant Columbia Nitrogen

Barometric pressure, P_b = 29.13 in. Hg Dry gas meter number _____ Pretest Y 0.994 @ 2" ΔH

Wet Meter Static Press. In. H2O Dm	Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft^3 *	Gas volume dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter Inlet (t_{d_i}), °F	Temperature: Dry gas meter Outlet (t_{d_o}), °F	Temperature: Dry gas meter Average (t_d)[a], °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$	ΔHe i
-5.6	1.20	~~10~~ 4.929	5.052	69.97	91.5	77.5	84.5	8.362	8	.999	$\frac{4.929 \times 29.13 (84.5 + 460)}{5.052 \times (29.13 + 1.2/13.6)(69.97 + 460)}$	1.964
-5.6	1.20	~~10~~ 4.929	5.067	70.00	93.5	79.8	86.7	8.398	8	1.000		1.973
-5.6	1.20	~~10~~ 4.929	5.085	70.00	97.7	81.8	89.75	8.398	8	1.002		1.965
										Y=	1.000	1.967

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry test meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y ±0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

Quality Assurance Handbook M8-2.4A

* $V_w = \left[\frac{Pb + (Dm/13.6)}{Pb}\right] \times$ Indicated Wet Volume

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date 10-1-80 Meter box number 8 Plant MRI

Barometric pressure, P_b = 28.85 in. Hg Dry gas meter number _____ Pretest Y _____

Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft^3	Gas volume dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
2	~~10~~ 5	4.907	77.0	99.3	83	91.17	6.58	15	1.04	$\Delta H@$ = 2.03
2	~~10~~ 5	4.984	77.0	107.2	86	96.6	6.55	15	1.03	$\Delta H@$ = 1.99
2	~~10~~ 5	5.062	77.1	109.7	91	100.3	6.61	15	1.03	$\Delta H@$ = 2.01
									Y= 1.03	$\Delta H@$ = 2.01

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry test meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y $\pm$0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

CALIBRATION-ORIFICE AND METER

ΔH and ΔY

Console No. 9

Operator RCS

Date 5-19-80

Use This Sample to Test Program Once, After Loading

86	28.90	1.0	75.3	9.1	5	Answer 1.90
OT_d	P_b	Man. Orifice	T_w	t	CF_w	ΔH
		0.5				
		1.0				
88.33	29.067	2.0	70.68	12.93	10	1.832
		4.0				
		6.0				
		8.0				

$$\Delta H_{@} = \frac{.031(\Delta H)}{P_b(OT_d+460)}\left[\frac{(T_w+460)}{CF_w}\right]^2$$

Use This Sample to Test Program Once, After Loading

1.0	28.90	5.13	75.3	97	86	28.90	5	Answer: 1.00
Man. Orifice	P_b	CF_d	T_w	IT_d	OT_d	P_b	CF_w	ΔY
0.5								
1.0								
2.0	29.067	10.334	70.68	110.83	88.33	29.067	10	1.015
4.0								
6.0								
8.0								

$$\Delta Y = \frac{(CF_w)(P_b)(T_{d_{avg}}+460)}{CF_d\left(P_b+\frac{\Delta H}{13.6}\right)(T_w+460)}$$

Tolerances

ΔY	0.99	1.00	1.01
ΔH	1.6	1.84	2.1

MRI ~ Form C2

METER BOX CALIBRATION DATA AND CALCULATION FORM
(English units)

Date 10-2-80 Meter box number 10

Barometric pressure, P_b = 29.08 in. Hg. Calibrated by R. Stultz

Orifice manometer setting (ΔH), in. H_2O	Wet test meter (v_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature[a]: Wet test meter (t_w), °F	Temperature[a]: Dry gas meter: Inlet (t_{d_i}), °F	Temperature[a]: Dry gas meter: Outlet (t_{d_o}), °F	Temperature[a]: Dry gas meter: Average[a] (t_d), °F	Time (Θ), min	Y_i	$\Delta H@_i$
0.5	5								
1.0	5	4.913	75.95	102.0	86.33	94.17	9.13	1.05	1.91
1.5	~~10~~ 5	4.919	76.0	101.0	83.67	92.34	7.52	1.04	1.95
2.0	~~10~~ 5	4.919	76.0	94.0	80.5	87.25	6.54	1.03	1.98
3.0	10								
4.0	10								
							Average	1.04	1.95

ΔH	$\frac{\Delta H}{13.6}$	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d (P_b + \frac{\Delta H}{13.6}) (t_w + 460)}$	$\Delta H@_i = \frac{0.0317 \Delta H}{P_b (t_d + 460)} \left[\frac{(t_w + 460)\Theta}{V_w}\right]^2$
0.5	0.0368		
1.0	0.0737		
1.5	0.110		
2.0	0.147		
3.0	0.221		
4.0	0.294		

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d.

Quality Assurance Handbook M8-2.3A (front side)

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date FEB 6, 1981 Meter box number 2 Plant PFIZER

Barometric pressure, P_b = 29.25 in. Hg Dry gas meter number 2 Pretest Y 1.018

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
1.5	~~10~~ 5	5.007	72.3	81	77	79	7.2	15	1.007	ΔHθ = 1.779
1.5	~~10~~ 5	5.021	72.3	89	78	83	7.5	15	1.012	ΔHθ = 1.926
1.5	~~10~~ 5	5.040	72.4	94	80	87	7.4	15	1.015	ΔHθ = 1.869
									Y = 1.011	ΔHθ = 1.858

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y ±0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date 2/9/81 Meter box number 3 Plant PFIZER IDP

Barometric pressure, P_b = 29.08 in. Hg Dry gas meter number 3 Pretest Y 1.004

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
1.5	10 5	4.924	72.6	85	73	79	7.5	15	1.024	ΔHθ = 1.958
1.5	10 5	5.011	72.6	91	75	83	7.3	15	1.013	ΔHθ = 1.848
1.5	10 5	5.061	72.7	94	78	86	7.6	15	1.008	ΔHθ = 1.993
									Y = 1.015	ΔHθ = 1.933

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y ±0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date FEB 3, 1981 Meter box number 4 Plant PFIZER

Barometric pressure, P_b = 29.38 in. Hg Dry gas meter number 4 Pretest Y 1.000

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average (t_d),[a] °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
2.0	~~10~~ 5	5.059	72.1	85	76	81	6.41	15	1.000	ΔH@ = 1.873
2.0	~~10~~ 5	5.071	72.1	90	77	83	6.44	15	1.001	ΔH@ = 1.887
2.0	~~10~~ 5	5.094	72.1	93	79	86	6.43	15	1.002	ΔH@ = 1.875
									Y = 1.001	ΔH@ = 1.878

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y ±0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date 2-4-81 Meter box number 5 Plant PFIZER

Barometric pressure, P_b = 29.51 in. Hg Dry gas meter number 5 Pretest Y 1.0014

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average (t_d),[a] °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	Y_i $\frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
2.0	~~10~~ 5	5.053	72.4	86	74	80	6.35	15	0.999	ΔH@ = 1.839
2.0	~~10~~ 5	5.049	72.5	91	77	84	6.37	15	1.007	ΔH@ 1.841
2.0	~~10~~ 5	5.073	72.5	94	79	87	6.40	15	1.007	ΔH@ 1.851
									Y = 1.004	ΔH@ = 1.844

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y $\pm$0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date FEB 2, 1980 Meter box number 6 Plant PFIZER IDP

Barometric pressure, P_b = 29.36 in. Hg Dry gas meter number 6 Pretest Y 1.000

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
1.5	~~10~~ 5	5.131	72.1	84	76	80	7.61	15	0.985	ΔH@ = 1.987
1.5	~~10~~ 5	5.200	72.1	91	78	85	7.63	15	0.981	ΔH@ = 1.985
1.5	~~10~~ 5	5.236	72.1	95	80	87	7.65	15	0.978	ΔH@ = 1.988
									Y = 0.981	

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y $\pm$0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date FEB 5, 1981 Meter box number 8 Plant PFIZER

Barometric pressure, P_b = 29.13 in. Hg Dry gas meter number 8 Pretest Y 1.030

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
0.4	~~10~~ 5	4.786	72.5	81	72	77	13.4	15	1.052	ΔHθ = 1.666
0.4	~~10~~ 5	4.870	72.5	89	76	83	13.0	15	1.046	ΔHθ = 1.557
0.4	~~10~~ 5	4.900	72.6	93	80	87	13.6	15	1.047	ΔHθ = 1.692
									Y = 1.048	ΔHθ = 1.638

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y ±0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date FEB. 2, 1981 JDP

Meter box number 9

Plant PFIZER

Barometric pressure, P_b = 29.30 in. Hg

Dry gas meter number 9

Pretest Y 1.015

Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft^3	Gas volume dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
2.0	~~10~~ 5	4.851	72	89	78	83	6.5	15	1.047	$\Delta H@$ = 1.885
2.0	~~10~~ 5	4.889	72	93	80	87	6.5	15	1.046	$\Delta H@$ = 1.917
2.0	~~10~~ 5	4.938	72	97	81	89	6.5	15	1.040	$\Delta H@$ = 1.913
									Y=	1.044

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry test meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y $\pm$0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

Quality Assurance Handbook M8-2.4A

POSTTEST METER CALIBRATION DATA FORM (English units)

Test numbers _____

Date 1-29-81 JDP Meter box number 10 Plant PFIZER

Barometric pressure, P_b = 29.26 in. Hg Dry gas meter number 10 Pretest Y 1.040

Orifice manometer setting, (ΔH), in H_2O	Gas volume wet test meter (V_w), ft^3	Gas volume dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (Θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
1.5	~~10~~ 5	4.946	71.1	85	77.5	81	7.61	15	1.026	ΔH@ = 1.976
1.5	~~10~~ 5	4.939	71.1	88.5	78.8	84	7.59	15	1.033	ΔH@ = 1.960
1.5	~~10~~ 5	4.932	71.1	93	80	86	7.59	15	1.038	ΔH@ = 1.956
									Y= 1.032	ΔH@ = 1.964

[a] If there is only one therometer on the dry gas meter, record the temperature under t_d.

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry test meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry test meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry test meter, °F.

t_d = Average temperature of the gas in the dry test meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in H_2O.

Y_i = Ratio of accuracy of wet test meter to dry test meter for each run.

Y = Average ratio of accuracy of wet test meter to dry test meter for all three runs.
Tolerance = Pretest Y $\pm$0.05Y

P_b = Barometric pressure, in. Hg.

R = Time of calibration run, min.

Quality Assurance Handbook M8-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date 2-23-81 Meter box number Brink Test Meter Plant Pfizer

Barometric pressure, P_b = 28.81 in. Hg Dry gas meter number MRI 8057 Pretest Y 1.006

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i = \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
0	~~10~~ 0.5148	.500	~~72~~ 71.4	—	72	72	9.6	—	1.029	
0	~~10~~ 0.5162	.500	71.4	—	72	72	9.23	—	1.032	
0	~~10~~ .5152	.500	71.4	—	72	72	9.13	—	1.030	
									Y =	1.030

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

Wet Meter Calibration Factor: 1.0061

1.030 x 1.0061 = 1.036

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y ±0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Quality Assurance Handbook M4-2.4A

POSTTEST DRY GAS METER CALIBRATION DATA FORM (English units)

Test number _____ Date 2-24-81 Meter box number Brink Test Meters Plant Pfizer

Barometric pressure, P_b = 29.01 in. Hg Dry gas meter number MRI 8059 Pretest Y 1.014

Orifice manometer setting, (ΔH), in. H_2O	Gas volume: Wet test meter (V_w), ft^3	Gas volume: Dry gas meter (V_d), ft^3	Temperature: Wet test meter (t_w), °F	Temperature: Dry gas meter: Inlet (t_{d_i}), °F	Temperature: Dry gas meter: Outlet (t_{d_o}), °F	Temperature: Dry gas meter: Average[a] (t_d), °F	Time (θ), min	Vacuum setting, in. Hg	Y_i	$Y_i \frac{V_w P_b (t_d + 460)}{V_d \left(P_b + \frac{\Delta H}{13.6}\right)(t_w + 460)}$
/	10	0.499	71.8	/	71	71	10.50	/	1.0237	
/	10	0.516	72.03	/	71.3	71.3	8.85	/	1.0274	
/	10	0.512	72.03	/	72	72	9.56	/	1.0216	
									Y = 1.0242	

[a] If there is only one thermometer on the dry gas meter, record the temperature under t_d

where

V_w = Gas volume passing through the wet test meter, ft^3.

V_d = Gas volume passing through the dry gas meter, ft^3.

t_w = Temperature of the gas in the wet test meter, °F.

t_{d_i} = Temperature of the inlet gas of the dry gas meter, °F.

t_{d_o} = Temperature of the outlet gas of the dry gas meter, °F.

t_d = Average temperature of the gas in the dry gas meter, obtained by the average of t_{d_i} and t_{d_o}, °F.

ΔH = Pressure differential across orifice, in. H_2O.

Y_i = Ratio of accuracy of wet test meter to dry gas meter for each run.

Y = Average ratio of accuracy of wet test meter to dry gas meter for all three runs; tolerance = pretest Y $\pm$0.05Y.

P_b = Barometric pressure, in. Hg.

θ = Time of calibration run, min.

Wet Meter Calibration Factor: 1.0061

1.0242 x 1.0061 = 1.030

STACK TEMPERATURE ~~SENSOR~~ METER CALIBRATION DATA FORM

Date 9-5-80 ~~Thermocouple~~ Potentiometer number 8024

Ambient temperature _____ °C Barometric pressure _____ in. Hg

Calibrator RCS Reference: mercury-in-glass Yes

other _____

Reference point number[a]	Source[b] (specify)	Reference thermometer temperature, °C	Thermocouple potentiometer temperature, °C	Temperature difference,[c] %
	Ice Bath	0	30°F	+0.41
	Water Bath	94°F	93°F	+0.18
	" "	143°F	143°F	± zero
	" "	186°F	186°F	± zero
	" "	208°F	209°F	+0.15

[a]Every 30°C (50°F) for each reference point.

[b]Type of calibration system used.

[c] $\left[\frac{(\text{ref temp, °C} + 273) - (\text{test thermom temp, °C} + 273)}{\text{ref temp, °C} + 273}\right] 100 \leq 1.5\%.$

STACK TEMPERATURE ~~SENSOR~~ METER CALIBRATION DATA FORM

Date 9-5-80 ~~Thermocouple~~ Potentiometer number 8026

Ambient temperature _____ °C Barometric pressure _____ in. Hg

Calibrator RCS Reference: mercury-in-glass Yes

other _____

Reference point number[a]	Source[b] (specify)	Reference thermometer temperature, °C	Thermocouple potentiometer temperature, °C	Temperature difference,[c] %
	Ice Bath	0°C	25°F	~~+~~ + 1.4
	Water Bath	90°F	85°F	+0.91
	" "	146°F	140°F	+0.99
	" "	184°F	178°F	+0.93
	" "	209°F	205°F	+0.60

[a]Every 30°C (50°F) for each reference point.

[b]Type of calibration system used.

[c] $\left[\frac{(\text{ref temp, °C} + 273) - (\text{test thermom temp, °C} + 273)}{\text{ref temp, °C} + 273}\right] 100 \leq 1.5\%.$

Meter

STACK TEMPERATURE ~~SENSOR~~ CALIBRATION DATA FORM

Date 2-2-81 Potentiometer ~~Thermocouple~~ number 8026

Ambient temperature 22 °C (72°F) Barometric pressure 29.46 in. Hg

Calibrator MDH Reference: mercury-in-glass Yes

other

Reference point number[a]	Source[b] (specify)	Reference thermometer temperature, °C	Thermocouple potentiometer temperature, °C	Temperature difference,[c] %
	Ice Bath	0 °C	26 °F	+ 1.22
	Water Bath	94 °F	89 °F	+ 0.89
	"	148 °F	143 °F	+ 0.81
	"	184 °F	178 °F	+ 0.92
	"	210 °F	207 °F	+ 0.46

[a]Every 30°C (50°F) for each reference point.

[b]Type of calibration system used.

[c] $\left[\frac{(\text{ref temp, °C} + 273) - (\text{test thermom temp, °C} + 273)}{\text{ref temp, °C} + 273}\right] 100 \leq 1.5\%.$

STACK TEMPERATURE ~~SENSOR~~ Meter CALIBRATION DATA FORM

Date 2-2-81 ~~Thermocouple~~ Potentiometer number 8024

Ambient temperature 22 °C (71.2°F) Barometric pressure 29.46 in. Hg

Calibrator MDH Reference: mercury-in-glass Yes

other

Reference point number[a]	Source[b] (specify)	Reference thermometer temperature, °C	Thermocouple potentiometer temperature, °C	Temperature difference,[c] %
	Ice Bath	0°C	28°F	+0.81
	Water Bath	96°F	96°F	0.0
	"	145°F	146°F	-0.15
	"	186°F	183°F	+0.47
	"	208°F	207°F	+0.16

[a]Every 30°C (50°F) for each reference point.

[b]Type of calibration system used.

[c] $\left[\frac{(\text{ref temp, °C} + 273) - (\text{test thermom temp, °C} + 273)}{\text{ref temp, °C} + 273}\right] 100 \leq 1.5\%.$

6/9/80 [illegible]

METHOD 5 - SAMPLE NOZZLE IDENTIFICATION AND DIAMETER DETERMINATION

SAMPLING NOZZLES WERE PERMANENTLY NUMBERED AND MEASURED. MEASUREMENTS WERE TAKEN ACROSS 3 DIAMETERS 60° APART WITH A MITUTOYO LINEAR CALIPER OBTAINED FROM SHOP.

Nozzle No.	Diameter 1	Diameter 2	Diameter 3	Average
1	.116	.115	.117	.116
2	.120	.118	.121	.120
3	.123	.124	.124	.124
4	.123	.124	.123	.123
5	.182	.181	.182	.182
6	.185	.183	.185	.184
7	.183	.184	.182	.183
8	.237	.239	.239	.238
9	.247	.249	.248	.248
10	.247	.250	.248	.248
11	.247	.246	.246	.246
12	.297	.297	.295	.296
13	.306	.305	.306	.306
14	.364	.360	.363	.362
15	.363	.363	.363	.363
16	.375	.372	.375	.374
17	.377	.377	.375	.376
18	.375	.374	.374	.374
19	.443	.445	.444	.444
20	.467	.470	.468	.468
21	.501	.501	.500	.501
22	.495	.497	.494	.495
23	.498	.501	.497	.499
24	.250	.249	.250	.250
25	.250	.250	.247	.249
26	.248	.248	.248	.248
27	.375	.376	.378	.376
28	.371	.372	.371	.371
29	.249	.247	.250	.249
30	.248	.250	.248	.249
31	.498	.496	.496	.497
32	.446	.442	.443	.444
33	.379	.377	.378	.378
34	.375	.374	.374	.374
35	.125	.125	.123	.124
36	.123	.125	.125	.124
37	.248	.248	.248	.248
38	.251	.251	.251	.251
39	.239	.239	.239	.239
40	.248	.248	.246	.247
41	.259	.258	.259	.259
42	.251	.251	.251	.251
43	.185	.187	.188	.187
44	.494	.497	.496	.496
45	.373	.372	.373	.373

MIDWEST RESEARCH INSTITUTE

PITOT TUBE CALIBRATION FORM

Pitot Tube Number: MRI - 1 Calibrated by: RCS

Date: 6-6-79 C_{pstd} = 0.99

$\Delta P_{std} \approx$ 0.55 or as required

	Side "A" (in. H_2O) Flow				Side "B" (in. H_2O) Flow			
Run No.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.
1	0.590	0.814	0.843	0.001	0.591	0.835	0.833	0.003
2	0.590	0.810	0.845	0.001	0.591	0.825	0.838	0.002
3	0.590	0.810	0.845	0.001	0.591	0.825	0.838	0.002
		Average A	0.844			Average B	0.836	

C_{Pstd} = Pitot tube coefficient of standard type pitot tube

$$C_{p(s)} = C_{Pstd} \sqrt{\frac{\Delta P_{std}}{\Delta P_{(s)}}}$$

Dev. = $C_{p(s)} - \bar{C}_p$ (must be ≤ 0.01)

C_p(difference) = $\left|\text{Average}_A - \text{Average}_B\right|$ = .008 (must be ≤ 0.01)

$$\sigma \text{ (side A or B)} = \sum_{1}^{3} \frac{\left|C_{p(s)} - \bar{C}_p \text{ (A or B)}\right|}{3}$$

.001 for A
.002 for B

MIDWEST RESEARCH INSTITUTE

PITOT TUBE CALIBRATION FORM

Pitot Tube Number: MRI-9 Calibrated by: RCS

Date: 6-6-79 C_{pstd} = 0.99

"MRI-9" on side "A" $\Delta P_{std} \approx$ 0.55 or as required

	Side "A" (in. H_2O)				Side "B" (in. H_2O)			
Run No.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.
1	0.55	0.745	0.847	.002	0.55	0.755	0.841	.001
2	0.55	0.750	0.844	.001	0.553	0.755	0.843	.001
3	0.55	0.750	0.844	.001	0.553	0.755	0.843	.001
		Average A	0.845			Average B	0.842	

C_{Pstd} = Pitot tube coefficient of standard type pitot tube

$$C_{p(s)} = C_{Pstd} \sqrt{\frac{\Delta P_{std}}{\Delta P_{(s)}}}$$

Dev. = $C_{p(s)} - \bar{C}_p$ (must be ≤ 0.01)

C_p(difference) = $\left|\text{Average}_A - \text{Average}_B\right|$ = 0.003 (must be ≤ 0.01)

$$\sigma \text{ (side A or B)} = \sum_1^3 \frac{\left|C_{p(s)} - \bar{C}_p \text{ (A or B)}\right|}{3}$$

.0013 for A
.0010 for B

Note: 1. This is the vel. traverse pitot.

2. Values for $\Delta P_{(s)}$ used in calculations have been corrected for differences in manometers. Correction factor = 1.0096

MIDWEST RESEARCH INSTITUTE

PITOT TUBE CALIBRATION FORM

Pitot Tube Number: MRI-15 Calibrated by: RCS

Date: 6-6-79 C_{pstd} = 0.99

$\Delta P_{std} \approx$ 0.55 or as required

	Side "A" (in. H_2O) Flow				Side "B" (in. H_2O) Flow			
Run No.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.
1	0.575	0.840	0.819	.003	0.573	0.800	0.838	.001
2	0.573	0.828	0.824	.002	0.572	0.800	0.837	0
3	0.573	0.828	0.824	.002	0.572	0.800	0.837	0
		Average A	0.822			Average B	0.837	

C_{Pstd} = Pitot tube coefficient of standard type pitot tube

$$C_{p(s)} = C_{Pstd} \sqrt{\frac{\Delta P_{std}}{\Delta P_{(s)}}}$$

Dev. = $C_{p(s)} - \bar{C}_p$ (must be $\leq$ 0.01)

C_p(difference) = $|\text{Average}_A - \text{Average}_B|$ = 0.015 (must be $\leq$ 0.01)

$$\sigma \text{ (side A or B)} = \sum_1^3 \frac{|C_{p(s)} - \bar{C}_p \text{ (A or B)}|}{3}$$

0.0023 for A

0.0003 for B

MIDWEST RESEARCH INSTITUTE

PITOT TUBE CALIBRATION FORM

MRI-31

Pitot Tube Number: From Probe #4-2 Calibrated by: RCS

Date: 6-6-79 C_{pstd} = 0.99

$\Delta P_{std} \approx$ 0.55 or as required

	Side "A" (in. H_2O) Flow				Side "B" (in. H_2O) Flow			
Run No.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.	ΔP_{std}	$\Delta P_{(s)}$	$C_{p(s)}$	Dev.
1	0.565	0.810	0.827	0	0.569	0.825	0.822	.002
2	0.565	0.811	0.826	.001	0.570	0.820	0.825	.001
3	0.565	0.810	0.827	0	0.570	0.820	0.825	.001
		Average A	0.827			Average B	0.824	

C_{Pstd} = Pitot tube coefficient of standard type pitot tube

$$C_{p(s)} = C_{Pstd} \sqrt{\frac{\Delta P_{std}}{\Delta P_{(s)}}}$$

Dev. = $C_{p(s)} - \bar{C}_p$ (must be ≤ 0.01)

C_p(difference) = $\left|\text{Average}_A - \text{Average}_B\right|$ = 0.003 (must be ≤ 0.01)

$$\sigma \text{ (side A or B)} = \sum_1^3 \frac{\left|C_{p(s)} - \bar{C}_p \text{ (A or B)}\right|}{3}$$

0.0003 for A

0.0013 for B

NOZZLE CALIBRATION

Date 10-10-80 Calibrated by G. Cobb

Anderson Presseparator

Nozzle identification number	D_1, mm, (in.)	D_2, mm, (in.)	D_3, mm, (in.)	ΔD, mm, (in.)	D_{avg}
60-3	.114	.115	.115	.001	.115
60-3.5	.135	.135	.135	0	.135
60-4	.155	.155	.153	.002	.154
60-4.5	.173	.174	.174	.001	.174
60-5	.193	.193	.195	.002	.194
60-6	.232	.233	.234	.002	.233
60-7	.269	.270	.272	.003	.270
60-8.5	.330	.330	.330	0	.330
60-10	.393	.393	.393	0	.393
60-12	.466	.466	.468	.002	.467
60-14.5	.566	.564	.567	.003	.566

where:

$D_{1'2'3'}$ = nozzle diameter measured on a different diameter, mm (in.). Tolerance = measure within 0.25 mm (0.001 in.).

ΔD = maximum difference in any two measurements, mm (in.). Tolerance = 0.1 mm (0.004 in.).

D_{avg} = average of D_1, D_2, D_3.

Quality Assurance Handbook M8-2.6

NOZZLE CALIBRATION

Date 10-10-80 Calibrated by G. Cobb

Anderson Presseperator

Nozzle identification number	$D_{1'}$ mm, (in.)	$D_{2'}$ mm, (in.)	$D_{3'}$ mm, (in.)	ΔD, mm, (in.)	D_{avg}
61-3	.111	.113	.114	.003	.113
61-3.5	.135	.135	.135	0	.135
61-4	.150	.153	.153	.003	.152
61-4.5	.175	.175	.175	0	.175
61-5	.195	.195	.195	0	.195
61-6	.233	.233	.232	.001	.233
61-7	.272	.270	.271	.002	.271
61-8.5	.333	.331	.331	.002	.332
61-10	.389	.391	.392	.003	.391
61-12	.466	.467	.467	.001	.467
61-14.5	.565	.564	.566	.002	.565

where:

$D_{1'2'3'}$ = nozzle diameter measured on a different diameter, mm (in.). Tolerance = measure within 0.25 mm (0.001 in.).

ΔD = maximum difference in any two measurements, mm (in.). Tolerance = 0.1 mm (0.004 in.).

D_{avg} = average of D_1, D_2, D_3.

Quality Assurance Handbook M8-2.6

BRINK NOZZLES

NOZZLE CALIBRATION

Date 9-29-80 Calibrated by RJ

Nom. Size	Nozzle identification number	D_1, mm, (in.)	D_2, mm, (in.)	D_3, mm, (in.)	ΔD, mm, (in.)	D_{avg}
2 mm	B-1	0.077	0.079	0.078	0.002	0.078
	B-2	0.077	0.078	0.078	0.001	0.078
	B-3	0.072	0.072	0.072	0.000	0.072
3mm	B-4	0.116	0.116	0.116	0.000	0.116
	B-5	0.115	0.115	0.116	0.001	0.115
4mm	B-6	.0164	0.163	0.164	0.001	0.164
	B-7	0.156	0.156	0.155	0.001	0.156

where:

$D_{1'2'3'}$ = nozzle diameter measured on a different diameter, mm (in.). Tolerance = measure within 0.25 mm (0.001 in.).

ΔD = maximum difference in any two measurements, mm (in.). Tolerance = 0.1 mm (0.004 in.).

D_{avg} = average of D_1, D_2, D_3.

Note Nominal Sizes converted to inches:

2 mm = .0787
3 mm = .1181
4 mm = .1574

Quality Assurance Handbook M8-2.6

APPENDIX H

PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

Midwest Research Institute

H. K. Wilcox, Head, Field Programs Section
Fred Bergman, Senior Chemist, Project Leader
Dr. George Scheil, Senior Chemist
George R. Cobb, Associate Chemist, Crew Chief
Mark D. Hansen, Associate Environmental Scientist, Team Member
Tom Walker, Junior Chemist, Lab Supervisor
Robert Stulty, Associate, Team Member
Ed Whited, Assistant Environmental Scientist, Team Member
Joel Pavelonis, Junior Scientist, Lab Member
Jeff Johnson, Junior Scientist, Lab Member
Dan Vogel, Junior Technician, Team Member
Ed Olson, Assistant Environmental Scientist, Team Member
Raju Kakarlapudi, Associate Chemical Engineers, Team Member
Ann Small, Junior Chemist, Lab Member
Barbara Dent, Staff Industrial Hygienist, Lab Member
Bruce Boomer, Assistant Environmental Engineer, Lab Member
Chat Cowherd, Head, Air Quality Assessment Section
John Kinsey, Associate Environmental Scientist
Dr. Mark Small, Associate Environmental Scientist
Frank Pendleton, Junior Environmental Scientist, Team Member
Steve Cummins, Junior Environmental Scientist, Team Member
David Griffen, Senior Technician, Team Member

Pfizer, Inc.

Wayne McCoy, Director of Production Services
Paul MacDonald, Plant Manager
Gary Jividen, Production Manager

U.S. EPA Industrial Environmental Research Laboratory

Charles H. Darvin

APPENDIX I

VELOCITY TRAVERSE ESP

FILE NAME - ESPI3
RUN # - ESP NO. 3 INLET
LOCATION - PFIZER
DATE - 1-12-81
PROJECT # - 4891-L93

BAROMETRIC PRESSURE (IN. HG)=	29.48
STATIC PRESSURE (INCHES H2O)=	-0.91
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (IN. H2O)=	0.18
AVERAGE STACK TEMPERATURE (F.)=	604.5
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (IN. H2O)=	0.4060
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (INCHES)=	0.3000
STACK AXIS #1 (INCHES)=	63.13
STACK AXIS #2 (INCHES)=	76.00
RECTANGULAR STACK	
STACK AREA (SQUARE FEET)=	33.319
STACK VELOCITY (ACTUAL, FEET/MIN)=	1,902
FLOW RATE (ACTUAL, CUBIC FEET/MIN)=	63,363
FLOW RATE (STANDARD, WET, CUBIC FEET/MIN)=	30,896
FLOW RATE (STANDARD, DRY, CUBIC FEET/MIN)=	29,088

* * METRIC UNITS * *

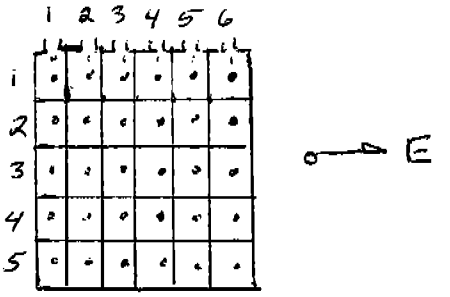
BAROMETRIC PRESSURE (MM HG)=	748.79
STATIC PRESSURE (MM H2O)=	-23.1
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (MM H2O)=	4.6
AVERAGE STACK TEMPERATURE (C.)=	318.1
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (MM H2O)=	2.0464
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (MM)=	7.62
STACK AXIS #1 (METERS)=	1.604
STACK AXIS #2 (METERS)=	1.930
RECTANGULAR STACK	
STACK AREA (SQUARE METERS)=	3.095
STACK VELOCITY (ACTUAL, M/MIN)=	580
FLOW RATE (ACTUAL, CUBIC M/MIN)=	1,794
FLOW RATE (STANDARD, WET, CUBIC M/MIN)=	875
FLOW RATE (STANDARD, DRY, CUBIC M/MIN)=	824

FILE NAME - ESPI3
RUN # - ESP NO. 3 INLET
LOCATION - PFIZER
DATE - 1-12-81
PROJECT # - 4891-L93

POINT #	DELTA P (IN. H2O)	STACK T. (F.)
1	0.12	630
2	0.11	610
3	0.16	735
4	0.15	710
5	0.14	720
6	0.14	650
7	0.24	720
8	0.28	690
9	0.25	640
10	0.20	680
11	0.11	680
12	0.25	710
13	0.34	730
14	0.25	650
15	0.16	440
16	0.19	690
17	0.28	640
18	0.41	630
19	0.32	510
20	0.19	420
21	0.19	630
22	0.28	570
23	0.26	560
24	0.15	480
25	0.10	430
26	0.09	500
27	0.05	570
28	0.02	520
29	0.02	530
30	0.03	460

TRAVERSE POINT LOCATION FOR CIRCULAR DUCTS

PLANT Pfizer
DATE 1-12-81
SAMPLING LOCATION ESP No. 3 Inlet
INSIDE OF FAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE A) 67 1/8 average
INSIDE OF NEAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE B) 4 68.96
STACK I.D., (DISTANCE A - DISTANCE B) 63 1/8 X 76 ~~(39.5" Dc)~~
NEAREST UPSTREAM DISTURBANCE 0.253
NEAREST DOWNSTREAM DISTURBANCE 0.253
CALCULATOR RCS



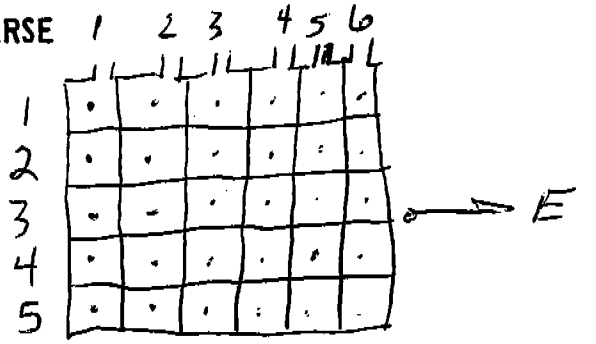
SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NUMBER	FRACTION OF STACK I.D.	STACK I.D.	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1/8 INCH)	DISTANCE B	TRAVERSE POINT LOCATION FROM OUTSIDE OF NIPPLE (SUM OF COLUMNS 4 & 5)
1			6.3125	4	10 5/16
2			18.9375	4	22 15/16
3			31.5625	4	35 9/16
4			44.1875	4	48 3/16
5			56.8125	4	60 13/16

EPA (Dur) 232
4 72

PRELIMINARY VELOCITY TRAVERSE

PLANT Pfizer * measure duct width
DATE 1-12-81
LOCATION ESP No. 3 Inlet
STACK I.D. De = ~~29.5"~~ 68.96
BAROMETRIC PRESSURE, in. Hg ~~29.54~~ 29.48
STACK GAUGE PRESSURE, in. H_2O at 4-3 -0.9
OPERATORS Hansen, ~~Whited~~ Olson, Stulte



SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
1-1	0.115	630
2	0.110	610
3	0.160	735
4	0.145	710
5	0.140	720
2-1	0.140	650
2	0.240	720
3	0.280	690
4	0.250	640
5	0.200	680
3-1	0.110	680
2	0.250	710
3	0.335	730
4	0.250	650
5	0.160	440
AVERAGE		

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
4-1	0.190	690
2	0.280	640
3	0.410	630
4	0.320	570
5	0.190	420
5-1	0.190	630
2	0.280	570
3	0.260	560
4	0.145	480
5	0.100	430
6-1	0.085	500
2	0.045	570
3	0.020	520
4	0.015	530
5	0.025	460
AVERAGE	$\sqrt{\Delta p_s}$ = 0.406	604.5°F

EPA (Dur) 233
4 72

Flagged - Roman numerals.

FILE NAME - ESPI1
RUN # - ESP NO. 1 INLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

BAROMETRIC PRESSURE (IN. HG)=	29.54
STATIC PRESSURE (INCHES H20)=	-0.85
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (IN. H20)=	0.23
AVERAGE STACK TEMPERATURE (F.)=	679.8
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (IN. H20)=	0.4672
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (INCHES)=	0.3300
STACK AXIS #1 (INCHES)=	59.50
STACK AXIS #2 (INCHES)=	36.00
RECTANGULAR STACK	
STACK AREA (SQUARE FEET)=	14.875
STACK VELOCITY (ACTUAL, FEET/MIN)=	2,262
FLOW RATE (ACTUAL, CUBIC FEET/MIN)=	33,644
FLOW RATE (STANDARD, WET, CUBIC FEET/MIN)=	15,354
FLOW RATE (STANDARD, DRY, CUBIC FEET/MIN)=	14,456

* * METRIC UNITS * *

BAROMETRIC PRESSURE (MM HG)=	750.32
STATIC PRESSURE (MM H20)=	-21.6
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (MM H20)=	5.7
AVERAGE STACK TEMPERATURE (C.)=	359.9
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (MM H20)=	2.3546
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (MM)=	8.38
STACK AXIS #1 (METERS)=	1.511
STACK AXIS #2 (METERS)=	0.914
RECTANGULAR STACK	
STACK AREA (SQUARE METERS)=	1.382
STACK VELOCITY (ACTUAL, M/MIN)=	689
FLOW RATE (ACTUAL, CUBIC M/MIN)=	953
FLOW RATE (STANDARD, WET, CUBIC M/MIN)=	435
FLOW RATE (STANDARD, DRY, CUBIC M/MIN)=	409

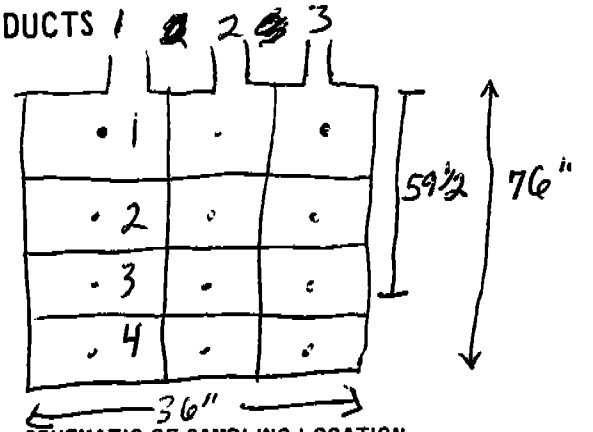
FILE NAME - ESPI1
RUN # - ESP NO. 1 INLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

POINT #	DELTA P (IN. H20)	STACK T. (F.)
1	0.08	633
2	0.12	635
3	0.14	685
4	0.17	700
5	0.33	675
6	0.29	690
7	0.27	705
8	0.25	705
9	0.29	650
10	0.25	695
11	0.27	685
12	0.25	700

N

TRAVERSE POINT LOCATION FOR CIRCULAR DUCTS

PLANT Pfizer
DATE 1-11-81
SAMPLING LOCATION ESP No. 1 Inlet
INSIDE OF FAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE A) 63 1/2"
INSIDE OF NEAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE B) 4"
STACK I.D., (DISTANCE A - DISTANCE B) 59 1/2 X 36" (44.86 De)
NEAREST UPSTREAM DISTURBANCE
NEAREST DOWNSTREAM DISTURBANCE
CALCULATOR MDH

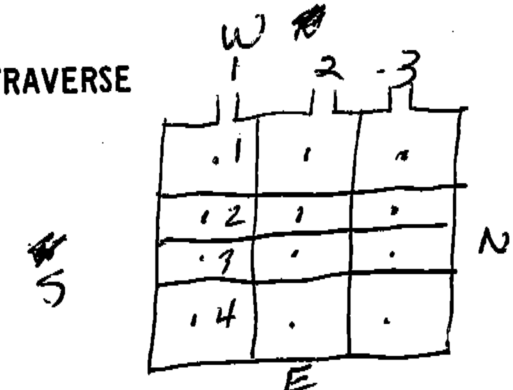


SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NUMBER	FRACTION OF STACK I.D.	STACK I.D.	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1/8 INCH)	DISTANCE B	TRAVERSE POINT LOCATION FROM OUTSIDE OF NIPPLE (SUM OF COLUMNS 4 & 5)
1			7.4375	4	11 1/2"
2			22.3125		26 3/8
3			37.1875		41 1/4
4			52.0625		56 1/8

✓

PRELIMINARY VELOCITY TRAVERSE



SCHEMATIC OF TRAVERSE POINT LAYOUT

PLANT Pfizer
DATE 1-11-81
LOCATION ESP No. 1 Inlet
STACK I.D. 36" W X 59.5
BAROMETRIC PRESSURE, in. Hg 29.54
STACK GAUGE PRESSURE, in. H_2O − 0.85
OPERATORS Hansen, Whited

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
1-1	~~0.08~~ .08	633
1-2	~~0.11~~ 0.12	635
1-3	~~0.12~~ 0.14	685
1-4	~~.13~~ .17	700
2-1	0.33	675
2-2	~~.07~~ .29	690
2-3	~~.12~~ .27	705
2-4	~~.125~~ .25	705
3-1	~~0.49~~ 0.29	650
3-2	0.025	695
3-3	0.027	685
3-4	~~0.05~~ .025	700
2-3	~~Static~~ − 0.85	
AVERAGE	0.198	679.8

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
AVERAGE		

EPA (Dur) 233
4-72

$\sqrt{\Delta p_s} = 0.467$

FILE NAME - ESPOCOM
RUN # - ESP COMMON OUTLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

BAROMETRIC PRESSURE (IN. HG)=	29.54
STATIC PRESSURE (INCHES H20)=	-0.51
PERCENT OXYGEN=	12.50
PERCENT CARBON DIOXIDE=	17.11
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.70
AVERAGE DELTA P (IN. H20)=	0.52
AVERAGE STACK TEMPERATURE (F.)=	434.6
DRY MOLECULAR WEIGHT=	31.238
WET MOLECULAR WEIGHT=	30.483
AVERAGE SQUARE ROOT OF DELTA P (IN. H20)=	0.7150
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (INCHES)=	0.3000
STACK AXIS #1 (INCHES)=	78.50
STACK AXIS #2 (INCHES)=	78.50
CIRCULAR STACK	
STACK AREA (SQUARE FEET)=	33.610
STACK VELOCITY (ACTUAL, FEET/MIN)=	3,072
FLOW RATE (ACTUAL, CUBIC FEET/MIN)=	103,262
FLOW RATE (STANDARD, WET, CUBIC FEET/MIN)=	60,099
FLOW RATE (STANDARD, DRY, CUBIC FEET/MIN)=	56,673

* * METRIC UNITS * *

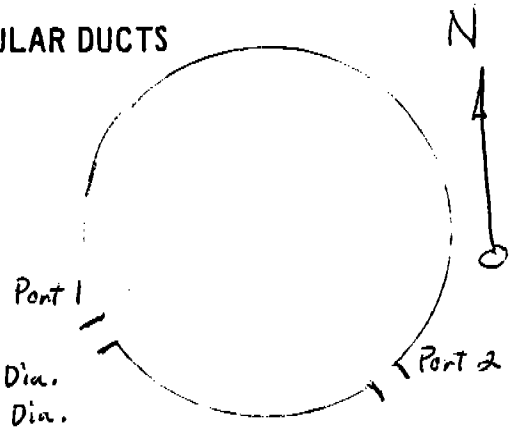
BAROMETRIC PRESSURE (MM HG)=	750.32
STATIC PRESSURE (MM H20)=	-13.0
PERCENT OXYGEN=	12.50
PERCENT CARBON DIOXIDE=	17.11
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.70
AVERAGE DELTA P (MM H20)=	13.1
AVERAGE STACK TEMPERATURE (C.)=	223.6
DRY MOLECULAR WEIGHT=	31.238
WET MOLECULAR WEIGHT=	30.483
AVERAGE SQUARE ROOT OF DELTA P (MM H20)=	3.6037
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (MM)=	7.62
STACK AXIS #1 (METERS)=	1.994
STACK AXIS #2 (METERS)=	1.994
CIRCULAR STACK	
STACK AREA (SQUARE METERS)=	3.122
STACK VELOCITY (ACTUAL, M/MIN)=	936
FLOW RATE (ACTUAL, CUBIC M/MIN)=	2,924
FLOW RATE (STANDARD, WET, CUBIC M/MIN)=	1,702
FLOW RATE (STANDARD, DRY, CUBIC M/MIN)=	1,605

FILE NAME - ESPOCOM
RUN # - ESP COMMON OUTLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

POINT #	DELTA P (IN. H20)	STACK T. (F.)
1	0.34	405
2	0.43	440
3	0.51	440
4	0.58	445
5	0.58	445
6	0.62	445
7	0.64	438
8	0.58	435
9	0.58	437
10	0.52	427
11	0.25	400
12	0.39	435
13	0.47	437
14	0.47	440
15	0.48	440
16	0.63	445
17	0.62	437
18	0.59	435
19	0.56	435
20	0.50	430

TRAVERSE POINT LOCATION FOR CIRCULAR DUCTS

PLANT Pfizer
DATE 1-11-81
SAMPLING LOCATION ESP OUTLET, Common Stack
INSIDE OF FAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE A) 81 3/4"
INSIDE OF NEAR WALL TO
OUTSIDE OF NIPPLE, (DISTANCE B) 3 1/4"
STACK I.D., (DISTANCE A - DISTANCE B) 78 1/2"
NEAREST UPSTREAM DISTURBANCE 36' (Duct Intrance) 5.5 Dia.
NEAREST DOWNSTREAM DISTURBANCE 22 1/2' (Top of stack) 3.4 Dia.
CALCULATOR RCS



SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NUMBER	FRACTION OF STACK I.D.	STACK I.D.	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1/8 INCH)	DISTANCE B	TRAVERSE POINT LOCATION FROM OUTSIDE OF NIPPLE (SUM OF COLUMNS 4 & 5)
1-1	.026	78.5	2.041	3.25	5 5/16
1-2	.082		6.437		9 5/8
1-3	.146		11.461		14 11/16
1-4	.226		17.741		21
1-5	.342		26.847		30 1/8
1-6	.658		51.653		54 7/8
1-7	.774		60.759		64
1-8	.854		67.039		70 1/4
1-9	.918		72.063		75 5/16
1-10	.974		76.459		79 9/16

EPA (Dur) 232
4 72

PRELIMINARY VELOCITY TRAVERSE

PLANT Pfizer
DATE 1-11-81
LOCATION ESP Outlet No Stack
STACK I.D. 78½
BAROMETRIC PRESSURE, in. Hg 29.54
STACK GAUGE PRESSURE, in. H_2O -0.51
OPERATORS Hansen, Whited

SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
1-1	~~28.34~~	405
2	.43	440
3	.51	440
4	.58	445
5	.58	445
6	.62	445
7	.64	438
8	.58	435
9	.58	437
10	.52	427
4	-.56	
AVERAGE	0.538	435.7

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
2-1	.25	400
2	.39	435
3	.47	437
4	.47	440
5	.48	440
6	.53	445
7	.62	431
8	.51	435
9	.56	435
10	.50	430
3	-.46	
AVERAGE	0.496	433.4

EPA (Dur) 233
4 72

Tape marked with a "C"

$\sqrt{\Delta P_s} = 0.715$

Avg. $T_s = 434.55$
Avg. $\Delta P_s = 0.517$

FILE NAME - ESPI2
RUN # - ESP NO. 2 INLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

BAROMETRIC PRESSURE (IN. HG)=	29.54
STATIC PRESSURE (INCHES H20)=	-0.73
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (IN. H20)=	0.13
AVERAGE STACK TEMPERATURE (F.)=	608.4
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (IN. H20)=	0.3530
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (INCHES)=	0.2000
STACK AXIS #1 (INCHES)=	63.90
STACK AXIS #2 (INCHES)=	36.00
RECTANGULAR STACK	
STACK AREA (SQUARE FEET)=	15.975
STACK VELOCITY (ACTUAL, FEET/MIN)=	1,654
FLOW RATE (ACTUAL, CUBIC FEET/MIN)=	26,424
FLOW RATE (STANDARD, WET, CUBIC FEET/MIN)=	12,869
FLOW RATE (STANDARD, DRY, CUBIC FEET/MIN)=	12,116

* * METRIC UNITS * *

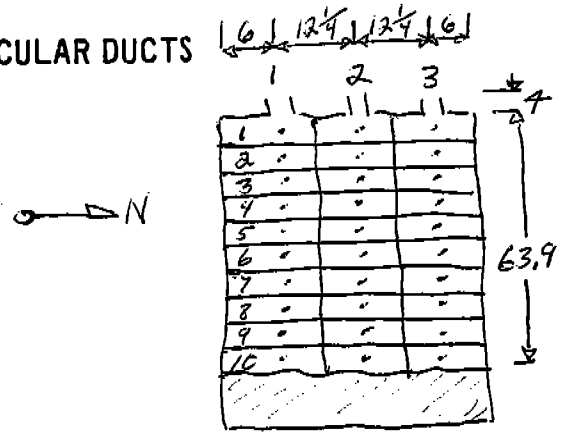
BAROMETRIC PRESSURE (MM HG)=	750.32
STATIC PRESSURE (MM H20)=	-18.5
PERCENT OXYGEN=	8.25
PERCENT CARBON DIOXIDE=	19.23
MOISTURE COLLECTED (ML)=	0.0
PERCENT WATER=	5.85
AVERAGE DELTA P (MM H20)=	3.3
AVERAGE STACK TEMPERATURE (C.)=	320.2
DRY MOLECULAR WEIGHT=	31.407
WET MOLECULAR WEIGHT=	30.623
AVERAGE SQUARE ROOT OF DELTA P (MM H20)=	1.7789
PITOT COEFFICIENT=	0.8400
NOZZLE DIAMETER (MM)=	5.08
STACK AXIS #1 (METERS)=	1.623
STACK AXIS #2 (METERS)=	0.914
RECTANGULAR STACK	
STACK AREA (SQUARE METERS)=	1.484
STACK VELOCITY (ACTUAL, M/MIN)=	504
FLOW RATE (ACTUAL, CUBIC M/MIN)=	748
FLOW RATE (STANDARD, WET, CUBIC M/MIN)=	364
FLOW RATE (STANDARD, DRY, CUBIC M/MIN)=	343

FILE NAME - ESPI2
RUN # - ESP NO. 2 INLET
LOCATION - PFIZER
DATE - 1-11-81
PROJECT # - 4891-L93

POINT #	DELTA P (IN. H20)	STACK T. (F.)
1	0.08	470
2	0.11	515
3	0.19	624
4	0.19	624
5	0.19	642
6	0.19	632
7	0.19	700
8	0.15	655
9	0.16	680
10	0.19	690
11	0.04	460
12	0.04	545
13	0.09	575
14	0.08	605
15	0.10	640
16	0.14	630
17	0.14	665
18	0.15	645
19	0.15	680
20	0.13	645
21	0.05	425
22	0.10	540
23	0.09	560
24	0.16	630
25	0.15	630
26	0.12	615
27	0.13	620
28	0.13	620
29	0.12	665
30	0.13	625

TRAVERSE POINT LOCATION FOR CIRCULAR DUCTS

PLANT: Pfizer
DATE: 1-11-81
SAMPLING LOCATION: ESP No. 2 Inlet
INSIDE OF FAR WALL TO OUTSIDE OF NIPPLE, (DISTANCE A): 67.9" (average)
INSIDE OF NEAR WALL TO OUTSIDE OF NIPPLE, (DISTANCE B): 4"
STACK I.D., (DISTANCE A - DISTANCE B): 63.9" X 36" (47" De)
NEAREST UPSTREAM DISTURBANCE: 1.45
NEAREST DOWNSTREAM DISTURBANCE: 1.11
CALCULATOR: RCS



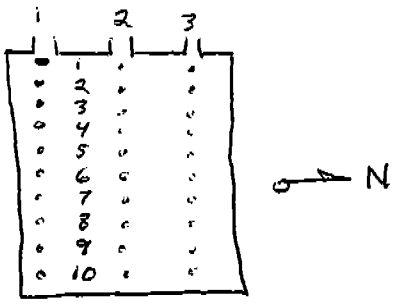
SCHEMATIC OF SAMPLING LOCATION

TRAVERSE POINT NUMBER	FRACTION OF STACK I.D.	STACK I.D.	PRODUCT OF COLUMNS 2 AND 3 (TO NEAREST 1 8 INCH)	DISTANCE B	TRAVERSE POINT LOCATION FROM OUTSIDE OF NIPPLE (SUM OF COLUMNS 4 & 5)
1			3.195	4	7 3/16
2			9.585	4	13 9/16
3			15.975		20
4			22.365		26 3/8
5			28.755		32 3/4
6			35.145		39 1/8
7			41.535		45 9/16
8			47.925		51 13/16
9			54.315		58 5/16
10			60.705		64 11/16
			Flag - Reg No.		

EPA (Dur) 232
4 72

PRELIMINARY VELOCITY TRAVERSE

PLANT Pfizer
DATE 1-11-81
LOCATION ESP No. 2 Inlet
STACK I.D. 36"W X 63.9" Deep (47" Equ.)
BAROMETRIC PRESSURE, in. Hg 29.54
STACK GAUGE PRESSURE, in. H_2O -0.73
OPERATORS Hansen, Whited



SCHEMATIC OF TRAVERSE POINT LAYOUT

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
1-1	0.08	470
1-2	0.11	515
1-3	0.19	624
1-4	0.19	624
1-5	0.19	642
1-6	0.19	632
1-7	0.185	700
1-8	0.15	655
1-9	0.16	680
1-10	0.19	690
	.1635 Avg =	623.2
2-1	0.04	460
2-2	0.04	545
2-3	0.09	575
2-4	0.03	608
2-5	0.10	640
2-6	0.135	630
2-7	0.14	665
2-8	0.15	645
2-9	0.15	680
2-10	0.13	645
AVERAGE	.1055	609 Avg.

STATIC -0.73

TRAVERSE POINT NUMBER	VELOCITY HEAD (Δp_s), in. H_2O	STACK TEMPERATURE (T_s), °F
3-1	0.05	425
3-2	0.10	540
3-3	0.09	560
3-4	0.16	630
3-5	0.15	630
3-6	0.12	615
3-7	0.13	620
3-8	0.13	620
3-9	0.12	665
3-10	0.13	625
	.118	593 avg
AVERAGE	0.129	608.4

EPA (Dur) 233
4 72

Tape F Lagged - Reg. No's $\sqrt{\Delta P_s} = 0.353$