

Appendix 12.1 Isotopic Exchange Parameters Pan Data

These are the daily data sheets used for the experimental determination of pan limiting factors, relative humidity and  $\delta_E$ . The data is arranged from Run 1 to Run 20.

Legend

Criteria	Units	Notes
Date		day, month and year
Time		start time
Day		day number for each run
Humidity (air)	percent	mean daily relative humidity 08:00hr to 08:00 hr at pan site
Humidity (norm)	percent	mean daily relative humidity normalised to lake surface temperature
Psychrometer (dry)	°C	dry bulb temperature
Psychrometer (wet)	°C	wet bulb temperature
RH	percent	Instantaneous sling psychrometer relative humidity
CV pan T	°C	Constant volume pan temperature (as check on logger data)
CV bath T	°C	Thermal regulation bath temperature (as check on lake logger data)
CV pan level	mm	Constant volume pan depth
Manometer	cm	Depth of water lost in reservoir (into CV pan in previous 24 hours)
Evaporation	mm	Evaporation from CV pan as calculated from reservoir level
Sample		Sample number, daily CV pan water sample
<sup>2</sup> H	permil	deuterium, CV pan
<sup>18</sup> O	permil	oxygen 18, CV pan
Standard pan T	°C	Temperature in pan evaporated to dryness
Standard bath T	°C	Thermal regulation bath temperature
Standard pan level	mm	Level of water remaining
V/Vo	ratio	Ratio water volume remaining to initial volume
Evaporation	mm	Evaporation from pan evaporated to dryness over previous 24 hours
Sample		Sample number, daily standard pan water sample
<sup>2</sup> H	permil	deuterium, standard pan
<sup>18</sup> O	permil	oxygen 18, standard pan
Wind	km	Wind run at 1m immediately above constant volume pan

The mean daily humidity data is based on wet and dry bulb logger data collected every ten minutes. Feed stock water was sampled immediately at the start of each pan run. These 'standard' samples represent the isotopic value of the groundwater obtained from CSIRO irrigation bore number two and are the isotopic values shown on 'Day 0' of each run. A total of 41 samples were collected between March 29, 1996 and December 31 1997 and analysed for deuterium. Mean feed stock deuterium -12.4‰. Standard deviation was 1.4‰ which is comparable to the 1.0‰ rated standard deviation of the mass spectrometer. Seven analyses for chloride over the same period averaged 262 mg l<sup>-1</sup>.

Pan levels, evaporation and total wind run are summarised in Table 1.

Table 1

Run	CV Pan Mean level	CV Pan Mean vol	CV Pan Evap (mm)	CV Pan Evap (litres)	Std Pan Start depth	Std Pan Evap (litres)	Wind Run (km)
1	85.1	21.802	165.6	42.257	156	40.974	
2	84.2	21.576	83.8	21.384	75	19.860	
3	84.3	21.602	80.7	20.593	75	19.860	
4	84.3	21.602	77.5	19.776	75	19.860	
5	83.2	21.325	93.8	23.935	75	19.860	
6	82.3	21.099	139.6	35.623	120	31.590	
7	82.0	21.024	116.6	29.754	100	26.377	1125.1
8	81.8	20.974	122.7	31.310	100	26.377	1021.1
9	82.3	21.099	108	27.559	100	26.377	854.2
10	82.3	21.099	123.7	31.565	100	26.377	1320.8
11	81.3	20.848	124.8	31.846	100	26.377	1624.7
12	82.2	21.074	98.3	25.084	75	19.860	1488.4
13	82.4	21.125	88.4	22.558	75	19.860	1027.1
14	83.3	21.350	61.5	15.693	50	13.344	1245.7
15	83.5	21.401	62.8	16.025	50	13.344	982.3
16	83.2	21.325	67.3	17.173	50	13.344	1376.6
17	83.1	21.300	129.2	32.969	100	26.377	1766.4
18	81.7	20.949	195.3	49.836	150	39.410	2168.4
19	82.1	21.049	162.9	41.568	200	52.443	1893.6
20	81.6	20.924	234.7	59.890			2428.3
Total			2337.2	596.4	1826.0	481.9	20322.7

## Appendix 12.2

These are the data sheets for the collection of atmospheric vapour for determination of  $\delta_A$ .

### Legend

Criteria	Units	Notes
Date		Date and run time information
Start		
End		
Time	minutes	Total time air was drawn through the Zundel trap(s)
Flow	litres min <sup>-1</sup>	Rate of air flow
Volume	m <sup>3</sup>	Volume of air drawn through the trap(s)
Trap		Trap (there were four, designated A to D)
Weight wet	grams	Weight of the trap with collected condensate
Weight dry	grams	Weight of trap dry
Water	grams	Weight of water collected
Efficiency	Percent	Percentage of water caught in the first trap
Sample		Sample number
<sup>2</sup> H	permil	Deuterium as $\delta_A$
<sup>18</sup> O	permil	Oxygen 18 as $\delta_A$

Dry weights are noted for each run. Dry weights for several of the traps changed over time as several traps suffered breakages which were repaired by a glass blower. Runs concurrent with direct measurement of lake  $\delta_E$  are noted.

### Appendix 12.3

These are the data sheets for the collection of vapour from the surface of East Lake for direct determination of  $\delta_E$ . Legend is similar to Appendix 12.2. Column headed CO<sub>2</sub> refers to experimental use of crushed dry ice packed around the tops of the Zundel traps to speed up cooling to operating temperature and provide a lower operating temperature. The freezer unit could accommodate three traps. Every  $\delta_E$  sampling run was always accompanied by a concurrent  $\delta_A$  sample. This meant that one of the two traps had to be run alone without a second trap in series as a check on extraction efficiency. The use of dry ice was therefore an insurance of complete extraction. In the event the dry ice proved too inconvenient and time consuming to make and use and the low night time ambient temperatures meant that the cooler operated more efficiently anyway with ethanol temperatures of -60°C or better.

The column headed Nitrogen refers to the use of dry nitrogen to purge any moisture from the sampling line. This was done in two ways. Nitrogen was pumped back out to the floating sampler to remove any condensate in the sampling line. This also meant that when not in use the line was filled with dry gas. Secondly nitrogen was also occasionally used to purge the 6m or so of unheated connecting line between the service conduit and the freezer unit (remember the permanently installed sampling line was installed in the return water duct from the evaporation pans and was always within 1°C of lake mid level temperature). This small length of connecting line was warmed with heat lamps but occasionally showed minor condensation which was extracted through the Zundel traps at the end of the sampling run. At the start of a run the line was cleared of nitrogen by operating the vacuum pump for at least a minute before connecting the flow through the Zundel traps. Calculated volume of the sampling line (6mm ID, length 60m) was 1.7 litres. During each  $\delta_E$  sampling run manual measurements (every 15 or 30 minutes) of air and lake surface temperature were taken using glass laboratory thermometers and air relative humidity by sling psychrometer. Temperatures were also obtained from thermister string #6 located adjacent to the floating pick up. These are designated 'Ts 6', and from the thermal regulation bath around the evaporation pans which is roughly equivalent to centre of lake temperature. As a general rule we tried to always operate with a 10°C difference between the lake (and hence sampling line) temperature and the air temperature. During late dawn sampling runs (E019, E020 and E021) this temperature differential was not maintained resulting in condensation and fractionation in the sampling line (refer thesis text). The temperature, humidity and other notes on wind and cloud conditions are included. Sampling runs were always done under dead calm conditions. A number were abandoned due to breezes developing. Only successful runs appear in Appendix 12.3.

Isotopic Exchange Parameters from Evaporation Pans Data

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan				Sample	<sup>2</sup> H	<sup>18</sup> O	Wind						
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Bath T					Level	V/Vo	Evap			
Run 1																										
29/03/1996	1000	0			19.2	13.8	54	16.9	87.5	0.0	0.0				0001	-12.8	-3.37	20.2	21.0	156.0	1.000	0.0	0002	-12.0	-3.11	
29/03/1996	1140																									
29/03/1996	1200				23.9	15.8	43	19.9	22.0	0.9	0.6															
29/03/1996	1700				21.0	16.0	60	23.2	24.5	2.1	0.8															
30/03/1996	0900	1	69.0	55.1	19.2	13.5	54	16.5	17.5	88.0	5.0	3.4			0006	-10.4	-2.44	16.7	155.0	155.0	0.994	1.0	0004	-13.2	-3.02	
31/03/1996	0900	2	56.8	51.1	19.5	14.3	58	17.3	18.4	88.0	5.1	3.4			0008	-6.7	-1.63	17.5	18.4	150.0	0.962	4.0	0009	-9.7	-2.31	
01/04/1996	0900	3	39.9	42.7	20.5	14.4	52	17.5	18.4	87.5	6.6	4.4			0010	-4.0	-0.76	17.8	18.3	145.0	0.930	5.0	0011	-8.5	-1.70	
02/04/1996	0900	4	49.3	45.9	22.5	14.6	42	18.0	19.0	88.0	8.1	5.4			0012	-2.5	-0.04	18.4	19.0	140.0	0.898	5.0	0013	-7.1	-1.22	
03/04/1996	0800	5	57.9	53.4	19.0	16.0	74	20.0	20.6	88.5	5.9	4.0			0014	0.9	0.51	20.0	20.5	136.0	0.872	4.0	0015	-2.1	-0.83	
04/04/1996	0800	6	74.5	68.3	21.5	18.0	76	21.0	21.6	88.5	3.9	2.6			0017	4.0	0.73	21.1	21.5	134.0	0.860	2.0	0018	-0.1	-0.26	
05/04/1996	0900	7	67.5	62.7	18.5	13.3	54	18.5	19.6	88.5	4.2	2.8			0020	4.8	1.18	19.0	19.6	130.0	0.834	4.0	0021	-0.2	0.04	
06/04/1996	0900	8	60.1	50.1	16.8	12.0	55	15.5	16.5	88.5	5.7	3.8			0023	6.1	1.60	15.9	16.6	126.0	0.809	4.0	0024	2.4	0.06	
07/04/1996	0900	9	58.4	51.1	18.5	14.0	61	16.3	17.0	88.0	5.0	3.4			0026	7.5	1.69	16.5	17.0	123.0	0.790	3.0	0027	5.5	1.06	
08/04/1996	0900	10	61.3	53.7	21.0	14.0	46	17.4	18.2	88.0	4.3	2.9			0029	9.8	2.21	17.6	18.2	120.0	0.770	3.0	0030	6.2	1.39	
09/04/1996	0900	11	34.0	39.7	24.5	16.5	44	18.5	18.9	86.0	6.5	4.4			0032	12.3	2.81	18.8	19.0	115.0	0.738	5.0	0033	7.9	2.18	
10/04/1996	0800	12	61.2	62.4	21.8	19.0	76	20.1	20.5	86.0	3.2	2.2			0035	12.1	2.94	20.2	20.5	112.0	0.719	3.0	0036	9.9	2.37	
11/04/1996	0900	13	73.0	71.2	20.0	15.0	59	20.0	20.9	86.0	2.9	1.9			0038	13.8	3.16	20.2	20.8	110.0	0.707	2.0	0039	11.9	2.61	
12/04/1996	0730	14	60.3	58.3	18.0	14.5	69	16.8	17.2	86.0	6.1	4.1			0041	15.2	3.44	16.9	17.2	106.0	0.681	4.0	0042	13.3	3.02	
13/04/1996	0900	15	78.6	69.4	17.5	14.0	69	18.0	18.7	86.0	3.2	2.2			0044	14.7	3.66	18.4	18.8	105.0	0.675	1.0	0045	12.5	3.65	
14/04/1996	0900	16	73.8	56.0	19.0	14.5	61	17.4	17.9	86.0	4.6	3.1			0047	14.8	3.86	17.5	17.9	102.0	0.656	3.0	0048	15.9	4.13	
15/04/1996	0900	17	64.7	60.0	21.0	15.2	52	17.5	18.2	86.0	3.3	2.2			0050	16.1	4.11	17.8	18.2	99.0	0.636	3.0	0051	16.6	4.20	
16/04/1996	0900	18	53.4	52.0	21.0	15.5	56	17.7	18.4	85.0	5.3	3.6			0053	17.6	4.19	18.0	18.4	95.0	0.611	4.0	0054	19.5	4.65	
17/04/1996	0900	19	41.2	44.1	23.4	15.8	45	18.1	18.7	84.0	6.9	4.6			0056	19.3	4.43	18.4	18.8	91.0	0.585	4.0	0057	20.9	5.57	
18/04/1996	0900	20	42.8	44.7	26.0	17.5	43	19.5	19.8	84.0	6.6	4.4			0059	20.0	5.03	19.5	19.9	87.0	0.560	4.0	0060	24.2	5.97	
19/04/1996	0830	21	79.0	75.8	21.4	20.0	87	21.0	21.2	84.0	3.3	2.2			0063	20.0	4.97	21.1	20.3	85.0	0.547	2.0	0064	24.3	6.08	
20/04/1996	0900	22	72.5	70.3	19.0	14.0	58	16.5	16.8	84.0	3.7	2.5			0066	20.4	4.80	16.5	16.9	82.7	0.532	2.3	0067	24.7	6.04	
21/04/1996	0900	23	74.3	54.7	15.0	11.5	66	15.0	15.5	84.0	5.0	3.4			0070	20.5	4.81	15.0	15.6	80.1	0.516	2.6	0071	24.5	6.30	
22/04/1996	0900	24	73.3	53.5	16.0	12.5	67	16.1	16.6	84.0	4.4	3.0			0073	19.7	4.94	16.4	16.6	77.7	0.501	2.4	0074	26.5	6.59	
23/04/1996	0900	25	78.1	63.1	15.8	14.0	81	16.5	17.0	84.0	2.7	1.8			0077	19.8	4.69	16.6	17.0	76.0	0.490	1.7	0078	27.0	6.68	
24/04/1996	0900	26	69.1	57.6	17.5	14.2	69	17.8	18.4	84.0	4.1	2.8			0080	18.7	4.74	17.8	18.4	73.5	0.474	2.5	0081	28.1	6.48	
25/04/1996	0830	27	83.5	72.0	17.5	16.5	91	18.9	19.4	84.0	2.5	1.7			0084	19.3	4.74	19.1	19.5	72.2	0.466	1.3	0085	29.6	6.85	
26/04/1996	0800	28	82.1	70.4	17.0	15.5	86	18.5	19.1	84.0	2.3	1.5			0087	20.1	4.65	18.7	19.2	70.9	0.457	1.3	0088	29.1	6.86	
27/04/1996	0900	29	77.3	60.7	18.5	15.4	73	18.3	18.9	84.0	3.7	2.5			0091	20.2	4.69	18.5	18.9	68.5	0.442	2.4	0092	29.6	7.15	
28/04/1996	0830	30	66.2	60.1	18.2	14.5	69	17.6	18.5	85.0	4.1	2.8			0094	19.3	4.75	18.0	18.6	65.8	0.425	2.7	0095	30.1	7.22	
29/04/1996	0900	31	51.6	52.5	21.0	15.8	59	18.3	18.9	84.0	5.5	3.7			0098	21.5	4.91	18.5	19.0	62.1	0.401	3.7	0099	32.1	7.68	
30/04/1996	0900	32	60.3	50.8	20.2	14.4	51	17.6	18.5	84.0	5.4	3.6			0101	20.9	5.17	18.0	18.6	59.1	0.382	3.0	0102	35.5	8.32	
01/05/1996	0900	33	74.0	71.6	18.7	15.7	74	19.0	19.5	84.0	2.7	1.8			0105	20.0	4.91	19.1	19.6	57.5	0.372	1.6	0106	34.2	8.12	
02/05/1996	0800	34	71.8	59.0	11.9	11.8	98	16.9	17.6	84.0	3.9	2.6			0108	20.3	4.89	17.0	17.8	55.0	0.356	2.5	0109	35.9	8.33	

Date	Time	Day	Humidity				Psychrometer				Constant Volume Pan				Standard Pan											
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind		
03/05/1996	0800	35	72.7	59.8	13.5	13.0	95	16.9	17.5	84.0	3.4	2.3	0112	21.1	5.06	16.8	17.6	52.8	0.342	2.2	0113	36.9	8.44			
04/05/1996	0830	36	76.1	67.2	19.4	17.6	82	18.7	19.1	84.0	3.1	2.1	0115	19.8	4.94	18.7	19.1	49.9	0.323	2.9	0116	36.9	8.37			
05/05/1996	0800	37	78.8	69.6	15.6	13.6	81	17.6	18.2	84.0	3.0	2.0	0119	20.1	4.77	17.5	18.2	48.5	0.314	1.4	0120	35.6	8.33			
06/05/1996	0830	38	67.3	55.5	19.5	15.2	61	17.1	17.5	84.0	4.6	3.1	0122	20.9	4.91	17.2	17.5	46.0	0.298	2.5	0123	38.1	8.78			
07/05/1996	0845	39	74.3	78.0	23.5	17.0	51	19.5	19.8	84.0	2.1	1.4	0126	20.3	4.87	19.5	19.8	44.5	0.289	1.5	0127	38.3	8.46			
08/05/1996	0900	40	53.8	65.3	19.8	18.1	87	18.5	18.7	84.0	5.0	3.4	0129	20.1	4.81	18.5	18.8	42.3	0.275	2.2	0130	38.3	8.44			
09/05/1996	0900	41	78.8	77.4	21.2	17.0	67	18.7	18.4	84.0	2.6	1.7	0133	20.4	4.57	18.4	18.6	41.5	0.270	0.8	0134	34.6	7.68			
10/05/1996	0730	42	71.2	69.6	14.9	14.3	95	16.2	16.5	84.0	3.5	2.4	0136	20.0	4.57	16.1	16.5	38.0	0.247	3.5	0137	34.3	7.45			
11/05/1996	0900	43	77.5	58.3	12.7	10.7	79	12.9	13.2	84.0	4.5	3.0	0140	19.4	4.55	12.6	13.2	35.5	0.231	2.5	0141	36.3	7.82			
12/05/1996	0745	44	73.0	52.9	4.6	4.4	95	11.1	11.7	84.0	3.6	2.4	0143	20.8	4.62	10.4	11.7	33.1	0.216	2.4	0144	39.3	8.30			
13/05/1996	0900	45	68.6	54.0	14.0	10.0	60	11.6	11.9	84.0	3.9	2.6	0147	20.8	4.72	11.1	11.8	30.9	0.202	2.2	0148	40.9	9.02			
14/05/1996	0900	46	52.2	48.6	16.0	11.4	58	13.5	14.0	84.0	2.6	1.7	0150	23.5	5.15	13.4	14.0	28.5	0.187	2.4	0151	44.8	9.84			
15/05/1996	0900	47	55.4	54.8	20.7	14.4	49	16.7	17.0	84.0	4.4	3.0	0154	22.7	5.33	16.9	17.1	26.1	0.171	2.4	0155	47.9	10.57			
16/05/1996	0700	48	74.1	72.2	14.3	13.5	90	16.3	16.6	84.0	3.7	2.5	0157	21.7	5.04	16.1	16.6	24.4	0.161	1.7	0158	46.2	10.06			
17/05/1996	0745	49	81.9	74.6	14.2	14.0	98	17.1	17.4	84.0	2.4	1.6	0161	21.0	5.05	17.0	17.5	23.0	0.152	1.4	0162	46.4	9.48			
18/05/1996	0900	50	68.0	49.5	13.0	9.8	67	14.1	14.7	84.0	4.4	3.0	0164	22.3	5.26	14.4	14.7	20.5	0.136	2.5	0165	49.9	10.56			
19/05/1996	0900	51	73.2	51.7	12.2	9.8	73	12.2	12.7	84.0	3.9	2.6	0168	23.4	5.32	12.4	12.8	18.0	0.120	2.5	0169	53.3	11.52			
20/05/1996	0900	52	71.5	54.9	14.8	10.8	61	11.6	12.1	84.0	3.4	2.3	0171	23.8	5.28	11.7	12.1	16.6	0.111	1.4	0172	57.7	12.02			
21/05/1996	0900	53	72.6	59.8	11.8	10.8	89	12.5	12.9	84.0	2.2	1.5	0175	24.1	5.39	12.6	13.1	14.3	0.096	2.3	0176	59.9	12.34			
22/05/1996	0900	54	78.1	61.3	13.4	12.4	89	12.9	13.3	84.0	2.5	1.7	0178	25.2	5.55	13.1	13.4	12.8	0.087	1.5	0179	60.8	12.53			
23/05/1996	0830	55	72.5	59.8	15.0	12.3	73	14.2	14.6	84.0	2.7	1.8	0182	26.0	5.59	14.3	14.8	11.8	0.080	1.0	0183	61.8	12.86			
24/05/1996	0715	56	68.5	61.5	14.6	12.0	74	15.2	15.6	84.0	2.2	1.5	0185	25.8	5.60	15.0	15.6	9.7	0.067	2.1	0186	58.5	12.28			
25/05/1996	0845	57	59.3	52.0	14.7	10.6	61	14.6	15.2	84.0	4.6	3.1	0189	24.1	5.64	14.5	15.3	7.0	0.050	2.7	0190	63.5	13.50			
26/05/1996	0845	58	60.8	54.1	17.6	11.1	44	15.0	15.4	84.0	4.3	2.9	0192	24.2	5.83	15.0	15.5	5.0	0.037	2.0	0193	66.4	14.69			
27/05/1996	0900	59	67.5	52.7	11.6	10.4	89	13.0	13.5	84.0	3.2	2.2	0196	24.7	5.95		13.6	2.7	0.022	2.3	0197	73.3	16.05			
28/05/1996	0900	60	78.1	66.5	12.8	12.0	92	14.2	14.7	84.0	2.8	1.9	0199	24.6	5.71	14.8	14.8	-1.0	0.006		0200	51.7	11.07			
End Run 1																										
Run 2																										
29/05/1996	0900	0	73.6	65.9	14.8	9.0	44	13.8	14.4	86.0	0.0	0.0	0203	-11.7	-2.54	13.0	14.4	75.5	1.000		0204	-13.2	-2.50			
30/05/1996	0830	1	66.8	49.8	10.9	8.5	72	14.2	14.7	85.0	3.0	2.0	0206	-9.2	-1.89	14.2	14.8	74.0	0.980	1.5	0207	-9.8	-1.55			
31/05/1996	0845	2	67.9	77.8	19.0	16.0	74	18.1	18.4	84.0	2.1	1.4	0210	-7.9	-1.52	18.0	18.4	72.5	0.961	1.5	0211	-6.9	-1.09			
01/06/1996	0900	3	65.7	66.0	16.5	15.5	90	16.6	16.7	84.0	3.5	2.4	0213	-6.1	-0.90	16.6	16.8	70.3	0.932	2.2	0214	-4.3	-0.36			
02/06/1996	0800	4	82.5	69.2	12.0	11.8	97	14.9	15.2	84.0	1.7	1.1	0217	-5.6	-0.69	14.9	15.3	68.8	0.912	1.5	0218	-2.4	-0.25			
03/06/1996	0845	5	67.1	73.7	14.8	13.6	89	15.3	15.4	84.0	1.4	0.9	0220	-4.5	-0.55	15.3	15.4	67.5	0.895	1.3	0221	-1.1	0.08			
04/06/1996	0845	6	76.0	60.3	12.5	9.0	64	12.6	13.2	84.0	3.5	2.4	0224	-2.7	-0.51	12.8	13.3	65.5	0.869	2.0	0225	-0.5	0.47			
05/06/1996	0900	7	75.8	58.8	11.0	10.2	88	11.7	12.2	84.0	3.3	2.2	0227	-2.0	0.18	11.8	12.4	64.0	0.849	1.5	0228	1.8	0.56			
06/06/1996	0900	8	77.1	60.1	9.8	9.2	94	11.4	11.7	84.0	2.8	1.9	0231	0.6	0.29	11.4	11.8	62.4	0.828	1.6	0232	4.7	1.21			
07/06/1996	0745	9	67.8	59.3	10.9	8.5	72	11.5	11.8	84.0	1.8	1.2	0234	3.0	0.74	11.4	11.8	60.9	0.809	1.5	0235	7.4	1.71			
08/06/1996	0815	10	55.8	57.4	12.2	10.0	78	11.8	12.0	84.0	3.0	2.0	0238	4.9	1.12	11.8	12.0	58.9	0.782	2.0	0239	6.7	2.18			
09/06/1996	0745	11	66.1	73.2	14.9	13.3	85	13.7	13.8	84.0	2.8	1.9	0241	2.6	1.06	13.8	13.9	57.8	0.768	1.1	0242	7.5	2.40			

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan											
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind
10/06/1996	0900	12	87.0	88.2	15.6	15.1	95	15.4	15.5	84.0	1.5	1.0	0245	3.4	1.38	15.3	15.5	57.1	0.759	0.7	0246	10.2	2.38	
11/06/1996	0900	13	87.7	77.7	15.4	14.9	95	14.6	14.9	84.0	2.1	1.4	0248	4.3	1.23	14.6	14.9	56.1	0.746	1.0	0249	10.0	2.50	
12/06/1996	0900	14	85.5	75.1	15.8	14.9	90	15.1	15.2	84.0	1.5	1.0	0252	7.7	1.59	15.0	15.2	55.0	0.731	1.1	0253	12.9	2.57	
13/06/1996	0900	15	86.8	68.5	11.8	11.5	95	13.2	13.6	84.0	2.7	1.8	0255	8.6	1.53	13.1	13.5	53.5	0.712	1.5	0256	14.9	2.98	
14/06/1996	0750	16	84.6	68.1	8.5	8.2	94	12.2	12.4	84.0	0.9	0.6	0259	8.5	1.78	11.9	12.3	52.3	0.696	1.2	0260	13.8	3.15	
15/06/1996	0900	17	81.1	70.5	15.4	13.5	80	13.5	13.2	84.0	1.2	0.8	0262	8.3	1.64	13.0	13.2	51.2	0.681	1.1	0263	15.4	3.31	
16/06/1996	0830	18	66.8	74.6	16.7	12.9	64	12.4	12.2	83.0	1.1	0.7	0266	9.8	2.04	12.4	12.4	49.8	0.663	1.4	0267	14.9	3.30	
17/06/1996	0845	19	78.8	75.9	14.7	12.5	80	13.7	13.8	84.0	3.8	2.6	0269	7.0	2.03	13.8	13.9	48.6	0.647	1.2	0270	13.6	3.43	
18/06/1996	0900	20	70.4	75.5	16.5	14.2	78	13.4	13.3	84.0	2.2	1.5	0273	8.1	2.02	13.4	13.5	47.2	0.629	1.4	0274	16.2	3.33	
19/06/1996	0900	21	80.2	84.6	16.1	14.1	81	14.6	14.6	84.0	2.5	1.7	0276	8.0	1.89	14.6	14.6	45.9	0.612	1.3	0277	15.1	3.10	
20/06/1996	0915	22	77.5	79.9	16.2	14.8	85	14.2	14.3	84.0	1.6	1.1	0280	8.1	1.76	14.2	14.3	45.0	0.600	0.9	0281	14.9	3.04	
21/06/1996	0830	23	67.4	70.9	16.1	12.4	65	13.0	13.0	84.0	2.8	1.9	0283	7.7	1.64	12.9	13.0	43.2	0.577	1.8	0284	14.5	3.01	
22/06/1996	0830	24	87.9	76.4	11.3	10.8	94	12.2	12.4	84.0	3.3	2.2	0287	5.3	1.63	12.3	12.4	42.5	0.567	0.7	0288	13.3	2.66	
23/06/1996	0800	25	81.0	82.2	16.5	13.0	68	13.5	13.5	84.0	0.1	0.1	0290	6.0	1.59	13.5	13.6	42.0	0.561	0.5	0291	12.2	2.58	
24/06/1996	0900	26	88.0	79.6	11.4	10.8	94	12.8	13.1	84.0	0.4	0.3	0294	5.0	1.82	12.6	13.1	41.1	0.549	0.9	0295	13.1	2.73	
25/06/1996	0900	27	82.3	64.5	9.5	9.1	94	11.4	11.7	85.0	3.5	2.4	0297	7.6	2.11	11.4	11.7	39.8	0.532	1.3	0298	14.7	3.03	
26/06/1996	0845	28	69.6	69.2	15.5	11.0	58	12.6	13.0	84.0	0.1	0.1	0301	7.4	1.91	12.8	13.0	38.7	0.518	1.1	0302	15.5	3.37	
27/06/1996	0900	29	77.3	85.6	15.7	14.7	90	13.5	13.4	83.0	0.1	0.1	0304	9.1	2.06	13.5	13.4	37.9	0.507	0.8	0305	16.4	3.18	
28/06/1996	0730	30	65.4	76.1	16.9	12.9	64	12.9	12.8	84.0	2.8	1.9	0307A	9.0	1.97	12.9	12.9	36.5	0.489	1.4	0308	14.4	3.22	
29/06/1996	0830	31	70.1	73.0	15.8	13.2	76	14.2	14.4	84.0	2.8	1.9	0310	8.4	2.14	14.3	14.4	35.0	0.469	1.5	0311	16.1	3.57	
30/06/1996	0800	32	73.8	78.8	16.8	12.2	59	14.6	14.9	84.0	1.8	1.2	0314	8.5	2.03	14.9	14.9	33.9	0.455	1.1	0315	18.3	3.60	
01/07/1996	0900	33	69.1	67.9	14.4	12.2	77	13.2	13.4	84.0	3.9	2.6	0317	10.9	2.22	13.2	13.4	32.0	0.430	1.9	0318	21.1	4.03	
02/07/1996	0900	34	76.0	77.7	18.0	15.8	80	14.7	14.8	84.0	0.4	0.3	0321	10.7	2.52	14.9	14.9	31.1	0.418	0.9	0322	26.9	3.93	
03/07/1996	0830	35	75.6	80.3	15.3	12.5	73	14.7	15.0	84.0	3.2	2.2	0324	11.9	2.08	14.6	15.0	29.8	0.401	1.3	0325	20.8	3.62	
04/07/1996	0900	36	73.5	71.6	15.0	14.0	90	14.3	14.4	84.0	1.6	1.1	0328	12.2	2.19	14.4	14.5	28.5	0.384	1.3	0329	21.8	3.91	
05/07/1996	0730	37	87.5	80.2	13.1	12.0	89	14.6	14.9	84.0	1.7	1.1	0331	10.8	2.20	14.7	15.0	27.8	0.375	0.7	0332	21.3	3.76	
06/07/1996	0900	38	79.7	68.4	13.7	11.2	74	13.2	13.4	84.0	2.9	1.9	0335	11.7	2.30	13.2	13.5	26.6	0.359	1.2	0336	23.4	4.11	
07/07/1996	0915	39	56.1	57.2	16.4	11.5	55	13.1	13.4	83.0	0.3	0.2	0338	13.9	2.80	13.2	13.5	24.3	0.329	2.3	0339	29.3	5.03	
08/07/1996	0900	40	82.3	82.6	14.2	13.0	90	14.3	14.4	85.0	5.8	3.9	0342	13.2	2.52	14.4	14.5	23.5	0.318	0.8	0343	26.4	4.91	
09/07/1996	0830	41	79.3	64.0	11.8	9.9	78	13.6	13.6	85.0	1.9	1.3	0345	14.5	2.92	13.0	13.5	21.9	0.297	1.6	0346	26.4	5.48	
10/07/1996	0900	42	75.6	57.8	10.8	8.0	66	11.5	11.9	85.5	4.8	3.2	0349	12.7	2.88	11.4	12.0	20.1	0.274	1.8	0350	28.0	5.76	
11/07/1996	0930	43	68.4	51.7	11.5	8.2	64	10.9	11.1	85.5	3.4	2.3	0352	12.7	3.16	10.5	11.0	18.3	0.250	1.8	0353	32.7	6.97	
12/07/1996	0845	44	51.8	50.6	14.8	10.6	61	11.5	11.8	84.0	0.2	0.1	0356	14.0	3.29	11.6	11.8	16.5	0.227	1.8	0357	37.7	7.72	
13/07/1996	0800	45	82.0	84.8	11.3	11.0	96	12.3	12.5	83.0	0.3	0.2	0359	13.3	3.13	12.2	12.6	15.9	0.219	0.6	0360	35.5	7.33	
14/07/1996	0830	46	73.3	73.5	14.0	11.4	74	13.1	13.3	84.0	2.5	1.7	0363	14.6	3.29	13.2	13.4	14.7	0.203	1.2	0364	33.0	6.87	
15/07/1996	0730	47	73.5	77.9	13.5	12.2	87	12.5	12.6	85.0	3.8	2.6	0366	13.4	3.07	12.5	12.6	13.8	0.191	0.9	0367	-13.5	-2.24	
16/07/1996	0900	48	78.0	85.5	16.5	12.4	63	13.2	13.3	85.0	0.7	0.5	0370	10.8	2.73	13.0	13.4	13.0	0.181	0.8	0371	14.0	3.02	
17/07/1996	0900	49	66.7	74.2	15.8	10.4	50	13.4	13.7	87.0	7.0	4.7	0373	10.9	2.68	13.0	13.6	10.9	0.153	2.1	0374	17.4	3.26	
18/07/1996	0830	50	62.0	65.7	15.2	12.4	72	12.7	12.8	84.0	0.1	0.1	0377	13.6	2.66	12.7	12.9	8.1	0.116	2.8	0378	24.0	4.49	
19/07/1996	0745	51	69.0	74.3	15.4	13.2	79	13.2	13.2	83.5	0.3	0.2	0380	14.2	2.88	13.2	13.3	6.8	0.099	1.3	0381	29.3	4.80	
20/07/1996	0900	52	79.3	76.8	15.2	12.3	71	13.6	13.8	85.0	4.9	3.3	0384	13.6	2.80	13.7	13.9	5.8	0.086	1.0	0385	29.9	5.22	

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan													
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind		
21/07/1996	0745	53	79.1	81.8	15.2	14.2	90	13.7	13.8	84.0	0.2	0.1	0.387	14.3	2.71	14.0	13.9	4.9	0.075	0.9	0.388	31.5	4.50			
22/07/1996	0845	54	78.1	80.9	16.9	14.0	72	14.0	14.1	84.0	0.9	0.6	0.391	14.3	2.60	14.0	14.2	4.0	0.063	0.9	0.392	25.7	3.72			
23/07/1996	0845	55	73.8	67.8	12.8	11.5	84	13.6	13.6	85.0	6.0	4.0	0.394	13.0	2.57	13.6	13.6	1.9	0.035	2.1	0.395	25.2	5.27			
24/07/1996	0900	56	70.7	72.3	15.0	11.1	61	13.4	13.6	85.0	0.2	0.1	0.398	14.1	2.81	N/S	13.6	0.3	0.022	1.6	0.399	24.8	4.97			
End Run 2																										
Run 3																										
25/07/1996	0915	0	78.9	69.9	17.0	12.8	62	12.4	12.8	84.0	0.0	0.0	-10.7	14.3	2.71	14.0	13.9	75.5	1.000	0.0						
26/07/1996	0715	1	63.3	68.8	13.3	12.1	87	13.7	14.1	84.0	0.3	0.2	0.403	-10.2	13.9	14.1	74.2	0.983	1.3	0.404						
27/07/1996	0845	2	66.2	70.6	20.0	18.0	83	15.0	15.1	84.0	3.9	2.6	0.406	-6.5	15.3	15.2	72.2	0.957	2.0	0.407						
28/07/1996	0730	3	67.3	69.2	15.1	11.9	69	13.9	14.0	84.0	2.8	1.9	0.410	-5.9	13.7	14.1	70.4	0.933	1.8	0.411						
29/07/1996	0845	4	69.0	67.1	15.8	12.8	71	14.5	15.0	84.0	2.6	1.7	0.413	-2.8	14.5	14.9	68.5	0.908	1.9	0.414						
30/07/1996	0930	5	81.3	87.1	16.8	14.0	74	15.8	16.2	84.0	4.3	2.9	0.417	-2.0	15.7	16.2	67.0	0.889	1.5	0.418						
31/07/1996	0830	6	60.4	57.4	12.8	9.8	69	12.6	13.0	84.0	2.5	1.7	0.420	0.6	12.5	13.0	63.8	0.847	3.2	0.421						
01/08/1996	0845	7	64.7	65.2	15.8	13.5	76	13.2	13.3	84.0	4.0	2.7	0.424	2.3	13.2	13.3	61.4	0.815	2.4	0.425						
02/08/1996	0715	8	69.0	71.9	15.0	12.2	71	14.0	14.1	84.0	1.3	0.9	0.427	3.0	13.8	14.2	59.0	0.784	2.4	0.428						
03/08/1996	0745	9	67.2	67.9	15.1	12.5	75	13.7	13.8	84.0	3.6	2.4	0.431	4.7	13.6	13.9	57.0	0.757	2.0	0.432						
04/08/1996	0830	10	76.5	71.1	11.3	11.0	95	13.9	14.2	85.0	6.0	4.0	0.434	4.2	13.8	14.2	55.1	0.733	1.9	0.435						
05/08/1996	0830	11	70.1	67.5	13.6	13.0	95	14.7	15.0	84.0	0.0	0.0	0.438	6.7	14.6	15.0	53.6	0.713	1.5	0.439						
06/08/1996	0830	12	83.3	61.7	8.5	7.0	82	11.5	12.2	85.5	4.6	3.1	0.441	6.9	11.4	12.2	52.1	0.693	1.5	0.442						
07/08/1996	0830	13	74.5	72.4	13.0	12.8	98	13.3	13.6	85.0	0.1	0.1	0.445	8.8	13.4	13.6	51.1	0.680	1.0	0.446						
08/08/1996	0830	14	79.3	62.9	11.6	9.8	78	13.2	13.7	84.0	0.7	0.5	0.448	8.0	13.0	13.7	49.6	0.660	1.5	0.449						
09/08/1996	0730	15	74.9	58.2	5.8	5.5	95	13.4	14.1	84.5	5.3	3.6	0.452	9.0	12.9	14.0	47.5	0.633	2.1	0.453						
10/08/1996	0815	16	60.2	54.2	14.4	11.4	70	13.6	14.2	84.0	0.3	0.2	0.455	10.3	13.6	14.1	45.8	0.611	1.7	0.456						
11/08/1996	0745	17	84.2	77.2	9.9	9.8	98	14.2	14.6	84.0	4.2	2.8	0.459	11.3	13.9	14.6	44.5	0.594	1.3	0.460						
12/08/1996	0830	18	69.6	57.5	13.1	11.7	84	14.6	15.1	84.0	0.8	0.5	0.462	11.6	14.4	15.0	42.8	0.571	1.7	0.463						
13/08/1996	0845	19	72.1	67.1	11.7	10.4	83	14.3	14.8	84.0	2.9	1.9	0.466	12.3	14.1	14.8	40.6	0.543	2.2	0.467						
14/08/1996	0830	20	75.3	50.1	8.9	6.5	70	12.1	12.7	85.0	7.0	4.7	0.469	12.6	11.9	12.7	38.4	0.514	2.2	0.470						
15/08/1996	0830	21	79.5	65.4	10.5	9.5	88	13.2	13.7	84.5	0.1	0.1	0.473	13.4	13.0	13.7	36.9	0.494	1.5	0.474						
16/08/1996	0730	22	80.6	65.8	10.4	10.1	96	13.9	14.4	84.0	1.4	0.9	0.476	15.5	13.7	14.4	35.8	0.480	1.1	0.477						
17/08/1996	0815	23	74.3	60.9	11.2	7.5	62	13.4	14.2	84.0	2.2	1.5	0.480	15.1	13.4	14.0	33.9	0.455	1.9	0.481						
18/08/1996	0830	24	51.5	43.1	11.0	7.2	56	12.6	13.6	84.0	6.2	4.2	0.483	17.6	13.4	12.4	30.9	0.415	3.0	0.484						
19/08/1996	0845	25	49.4	43.7	13.0	7.9	49	12.0	12.7	84.0	4.5	3.0	0.487	21.0	11.9	12.7	27.7	0.373	3.2	0.488						
20/08/1996	0715	26	57.8	60.9	14.9	14.1	92	13.8	14.0	84.0	5.1	3.4	0.490	22.4	13.9	14.0	25.7	0.347	2.0	0.491						
21/08/1996	0900	27	75.1	73.8	12.7	11.1	84	12.8	13.2	84.0	0.4	0.3	0.494	20.4	12.9	13.2	24.6	0.333	1.1	0.495						
22/08/1996	0845	28	75.8	64.6	12.5	10.6	79	13.4	14.0	84.0	2.0	1.3	0.497	22.1	13.3	14.0	22.9	0.310	1.7	0.498						
23/08/1996	0730	29	72.1	66.2	12.1	11.5	94	15.1	15.6	84.0	2.8	1.9	0.501	20.4	14.8	15.5	21.2	0.288	1.7	0.503						
24/08/1996	0900	30	82.5	75.7	15.7	12.5	70	15.6	16.2	84.0	2.3	1.5	0.504	21.0	15.6	16.2	19.8	0.270	1.4	0.505						
25/08/1996	0715	31	71.3	49.4	5.7	5.2	93	13.4	14.4	85.5	7.7	5.2	0.508	20.0	12.9	14.3	16.9	0.232	2.9	0.509						
26/08/1996	0830	32	68.7	50.4	12.1	9.5	73	13.7	14.5	85.0	0.1	0.1	0.511	22.0	13.8	14.5	15.9	0.219	1.0	0.512						
27/08/1996	0830	33	78.3	68.3	17.2	15.1	81	16.0	16.4	85.5	3.6	2.4	0.515	21.8	16.1	16.4	13.5	0.187	2.4	0.516						

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan											
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind
28/08/1996	0830	34	77.5	70.2	16.2	15.2	90	17.6	18.2	84.0	1.0	0.7	0.518	22.2	17.5	18.0	11.7	0.164	1.8	0.519	45.9			
29/08/1996	0830	35	83.0	62.0	15.9	14.0	81	17.2	17.9	85.0	5.9	4.0	0.522	20.8	17.2	17.8	9.6	0.136	2.1	0.523	47.0			
30/08/1996	0700	36	79.7	61.5	10.2	9.7	94	16.9	17.8	84.0	1.1	0.7	0.525	22.3	16.4	17.7	7.4	0.107	2.2	0.526	47.9			
31/08/1996	0845	37	73.1	64.1	16.7	13.0	67	17.9	18.6	84.0	2.6	1.7	0.529	22.8	18.0	18.6	5.3	0.080	2.1	0.530	48.9			
01/09/1996	0840	38	73.2	52.7	13.7	10.7	70	16.4	17.6	86.0	7.4	5.0	0.532	22.3	16.6	17.6	2.5	0.043	2.8	0.533	61.2			
	1730																				0.536	69.4		
02/09/1996	0830	39	75.8	52.5	13.6	11.0	74	15.3	16.2	84.0	2.2	1.5	0.537	23.9	16.1	16.1	0.2	0.026	2.3	0.538	70.6			
	1200																				0.540	79.1		
	1600																				0.541	83.0		
03/09/1996	0830	40	59.1	58.3	17.5	13.0	59	16.7	17.2	84.0	4.3	2.9	0.542	24.5	Dry	17.2	-1.0	0.015	0.5	0.541	83.0			
	End Run 3																							
	Run 4																							
03/09/1996	0900	0			17.5	13.0	59	16.7	17.2	84.0	0.0	0.0	STD	-10.9	17.2	17.2	75.5	1.000	0.0	STD	3/9/96	-10.9		
04/09/1996	0830	1	64.3	52.0	13.2	9.5	62	15.5	16.4	84.0	4.2	2.8	0.545	-9.2	15.6	16.4	72.8	0.965	2.7	0.546	-7.5			
05/09/1996	0830	2	73.7	50.2	13.2	10.2	69	14.8	15.7	85.0	5.3	3.6	0.548	-7.0	15.0	15.8	70.0	0.928	2.8	0.549	-4.6			
06/09/1996	0715	3	62.1	59.6	15.9	12.4	67	16.4	16.9	84.0	2.5	1.7	0.552	-4.1	16.1	16.9	67.5	0.895	2.5	0.553	-2.2			
07/09/1996	0900	4	68.7	57.2	14.9	13.7	90	16.6	17.1	84.0	5.8	3.9	0.555	-1.4	16.6	17.2	64.0	0.849	3.5	0.556	1.9			
08/09/1996	0830	5	83.3	69.7	16.0	14.5	85	16.6	17.4	84.0	2.2	1.5	0.559	0.8	16.4	17.4	62.6	0.831	1.4	0.560	4.3			
09/09/1996	0830	6	82.2	65.2	15.9	14.1	82	18.5	19.3	84.0	1.9	1.3	0.562	4.0	18.5	19.3	60.2	0.799	2.4	0.563	7.1			
10/09/1996	0830	7	77.3	64.8	18.3	16.5	84	18.5	19.0	84.0	5.2	3.5	0.566	4.4	18.5	19.0	58.7	0.780	1.5	0.567	10.1			
11/09/1996	0900	8	86.2	61.6	13.2	12.2	89	16.0	16.8	85.0	6.1	4.1	0.569	4.3	16.1	16.9	55.1	0.733	3.6	0.570	12.4			
12/09/1996	0830	9	70.9	60.0	14.7	14.0	92	16.9	17.5	84.0	0.1	0.1	0.573	6.5	17.0	17.5	52.8	0.702	2.3	0.574	11.9			
13/09/1996	0730	10	79.8	58.7	10.2	9.8	94	15.9	16.9	85.0	6.4	4.3	0.576	7.8	15.7	16.9	51.0	0.679	1.8	0.577	15.5			
14/09/1996	0830	11	61.2	61.6	19.0	14.2	60	17.6	18.0	84.0	0.0	0.0	0.580	9.4	17.4	18.0	47.9	0.638	3.1	0.581	18.5			
15/09/1996	0830	12	71.4	73.1	18.5	16.0	78	17.4	17.7	84.0	4.9	3.3	0.583	11.5	17.4	17.7	45.7	0.609	2.2	0.584	21.1			
16/09/1996	0830	13	74.5	71.8	16.8	13.8	72	16.3	16.6	84.0	4.8	3.2	0.587	10.6	16.2	16.7	43.1	0.575	2.6	0.588	22.1			
17/09/1996	0845	14	68.5	68.6	20.5	17.4	75	17.7	18.0	84.0	1.5	1.0	0.590	13.5	17.8	18.0	40.6	0.543	2.5	0.591	25.2			
18/09/1996	0830	15	74.3	75.2	17.8	14.0	67	17.1	17.6	85.0	5.3	3.6	0.594	12.6	16.9	17.6	38.3	0.512	2.3	0.595	25.7			
19/09/1996	0830	16	61.8	53.4	17.5	14.0	68	17.4	18.0	84.0	3.3	2.2	0.597	13.8	17.3	18.0	34.5	0.463	3.8	0.598	30.6			
20/09/1996	0745	17	70.8	53.2	12.6	10.4	75	15.9	17.1	85.0	8.0	5.4	0.601	14.2	15.9	17.1	31.2	0.419	3.3	0.602	33.9			
21/09/1996	0830	18	75.6	53.3	15.7	13.0	74	17.1	18.1	84.5	1.1	0.7	0.604	16.1	17.3	18.1	28.8	0.388	2.4	0.605	39.9			
22/09/1996	0830	19	78.1	67.5	12.9	9.2	62	16.3	17.6	84.5	6.0	4.0	0.608	15.9	16.2	17.6	26.0	0.351	2.8	0.609	39.7			
23/09/1996	0730	20	58.6	47.7	14.8	11.8	71	16.5	17.3	84.5	5.1	3.4	0.611	19.3	16.4	17.3	22.5	0.305	3.5	0.612	42.3			
24/09/1996	0800	21	71.0	55.6	14.5	11.5	70	17.1	18.0	84.0	2.9	1.9	0.615	17.0	17.2	18.1	20.0	0.272	2.5	0.616	45.7			
25/09/1996	0730	22	70.0	49.1	13.2	10.4	72	16.6	17.6	85.0	7.2	4.8	0.618	19.8	16.1	17.6	17.0	0.233	3.0	0.619	51.3			
26/09/1996	0745	23	58.5	47.6	14.0	10.4	66	15.9	17.4	84.0	2.4	1.6	0.622	21.6	15.5	17.4	13.7	0.190	3.3	0.623	57.6			
27/09/1996	0730	24	81.4	73.8	16.5	14.4	81	15.8	16.2	84.0	2.7	1.8	0.625	20.8	15.8	16.2	12.1	0.169	1.6	0.626	46.5			
28/09/1996	0900	25	71.8	63.0	16.4	12.3	62	16.6	17.6	84.0	6.0	4.0	0.629	20.0	16.6	17.6	9.2	0.131	2.9	0.630	41.3			
29/09/1996	0830	26	68.6	50.2	12.6	9.4	66	16.5	17.9	84.0	4.3	2.9	0.632	20.7	15.6	17.9	6.3	0.093	3.4	0.633	53.8			
30/09/1996	0830	27	64.4	43.2	13.0	9.0	59	16.0	17.2	85.0	7.8	5.2	0.636	21.3	15.7	17.2	2.9	0.048	3.4	0.637	71.4			

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan													
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind		
01/10/1996	0730	28	70.1	50.7	13.0	10.9	79	17.2	18.1	84.0	2.3	1.5	0639	23.2	18.1	0.2	0.021	2.7	0640	76.3						
	1230																			0643	77.0					
	1600																			0644	81.1					
End Run 4																										
Run 5																										
02/10/1996	0800	0	73.3	56.2	15.9	12.7	70	17.3	18.7	84.0	0.0	0.0	0645	-11.9	17.1	19.0	75.5	1.000	0.0	0646	-10.3					
03/10/1996	0715	1	70.9	48.4	11.2	10.3	88	17.2	18.2	82.0	3.1	2.1	0648	-8.6	17.1	18.4	72.2	0.957	3.3	0649	-8.4					
04/10/1996	0715	2	64.9	50.5	14.4	11.9	74	18.3	19.5	82.0	5.0	3.4	0652	-4.8	18.4	19.8	68.9	0.913	3.3	0653	-3.3					
05/10/1996	0845	3	68.2	48.3	15.7	12.0	66	17.6	19.1	82.0	7.1	4.8	0655	-2.4	17.6	19.3	64.9	0.861	4.0	0656	0.9					
06/10/1996	0830	4	67.8	46.4	15.8	10.9	54	17.1	18.2	84.0	7.9	5.3	0659	0.6	16.9	18.5	61.2	0.813	3.7	0660	5.4					
07/10/1996	0730	5	57.5	43.3	17.9	11.2	45	18.1	19.4	83.0	2.9	1.9	0662	4.6	17.9	19.5	57.8	0.768	3.4	0663	10.3					
08/10/1996	0715	6	61.0	46.9	15.2	14.3	90	19.5	20.6	84.0	9.0	6.0	0666	7.4	19.4	20.8	53.3	0.709	4.5	0667	17.1					
09/10/1996	0730	7	73.2	58.5	16.5	13.6	72	20.9	22.1	82.0	1.5	1.0	0669	11.7	20.7	22.3	50.1	0.667	3.2	0670	20.7					
10/10/1996	0730	8	65.8	50.7	13.6	10.9	72	17.6	18.9	83.0	7.8	5.2	0673	13.1	16.9	19.1	46.2	0.616	3.9	0674	25.3					
11/10/1996	0715	9	68.1	44.8	10.0	7.4	71	15.0	16.4	85.0	8.8	5.9	0676	13.1	14.5	16.6	42.2	0.563	4.0	0677	29.1					
12/10/1996	0830	10	62.1	41.5	16.4	10.0	41	16.7	17.9	83.0	3.5	2.4	0680	17.0	15.9	17.9	38.7	0.518	3.5	0681	34.2					
13/10/1996	0800	11	57.6	43.9	15.4	12.1	68	18.0	19.1	84.0	6.0	4.0	0683	18.0	17.1	19.1	35.0	0.469	3.7	0684	39.2					
14/10/1996	0800	12	72.9	54.5	15.0	13.4	85	19.1	20.1	83.0	4.4	3.0	0687	20.4	18.9	20.2	32.0	0.430	3.0	0688	42.8					
15/10/1996	0815	13	68.0	56.9	16.8	12.5	62	18.1	19.1	83.0	5.5	3.7	0690	21.2	17.4	19.3	29.0	0.390	3.0	0691	44.1					
16/10/1996	0800	14	59.1	44.8	14.6	10.4	59	18.2	19.5	84.0	7.1	4.8	0694	20.9	17.6	19.7	25.0	0.338	4.0	0695	51.3					
17/10/1996	0800	15	62.4	42.1	15.8	11.8	62	17.7	18.7	84.0	7.3	4.9	0697	22.4	16.5	19.0	21.1	0.287	3.9	0698	57.7					
18/10/1996	0745	16	70.6	53.7	14.2	11.4	70	18.3	19.6	83.0	3.4	2.3	0701	24.4	16.7	19.8	18.0	0.246	3.1	0702	59.7					
19/10/1996	0900	17	72.1	51.9	18.4	14.0	60	18.7	20.1	83.0	7.1	4.8	0704	25.0	17.2	20.2	14.7	0.203	3.3	0705	61.8					
20/10/1996	0830	18	64.1	52.9	26.5	16.0	32	20.7	21.9	82.0	3.3	2.2	0708	25.6	19.5	22.0	11.8	0.165	2.9	0709	64.2					
21/10/1996	0815	19	65.2	60.6	19.0	18.6	95	21.6	22.6	84.0	8.8	5.9	0711	25.2	20.0	22.8	8.2	0.118	3.6	0712	56.8					
22/10/1996	0800	20	85.9	73.6	18.5	17.2	88	20.7	21.5	83.0	2.0	1.3	0715	23.5	19.5	21.7	6.8	0.099	1.4	0716	42.3					
23/10/1996	0815	21	74.3	62.4	18.1	15.2	73	19.4	20.5	83.0	4.3	2.9	0718	24.3	17.9	20.6	4.1	0.064	2.7	0719	40.9					
24/10/1996	0815	22	78.8	55.7	13.7	11.1	74	17.7	19.3	84.0	6.6	4.4	0722	23.4	17.4	19.5	1.8	0.034	2.3	0723	41.1					
25/10/1996	0730	23	54.3	42.2	13.0	8.7	56	16.7	18.9	83.0	5.5	3.7	0726	25.2			Dry	0.000	1.8	N/S	51.0					
26/10/1996	0800	24	56.3	42.6	16.9	11.7	53	18.5	20.3	84.0	7.7	5.2	0729	26.5			20.5			N/S						
27/10/1996	0830	25	54.7	46.2	19.8	13.2	48	19.6	21.1	82.0	4.0	2.7	0731	29.3			21.9			N/S						
End Run 5																										
Run 6																										
27/10/1996	0900	0						18.7	21.4	83.0	0.0	0.0	0734	-11.0	18.9	21.7	120.0	1.000	0.0	0735	-11.1					
28/10/1996	0830	1	56.3	48.3	21.1	14.7	49	21.2	22.5	82.0	5.2	3.5	0736	-5.9	21.5	22.7	115.9	0.966	4.1	0737	-7.8					
29/10/1996	0800	2	51.9	47.0	19.8	14.5	57	20.8	22.6	82.0	8.0	5.4	0739	-0.9	21.3	22.9	110.8	0.924	5.1	0740	-3.1					
30/10/1996	0730	3	44.2	45.9	21.8	19.8	83	23.5	24.4	81.0	7.5	5.0	0743	2.9	23.6	24.5	106.1	0.885	4.7	0744	0.3					
31/10/1996	0745	4	75.5	60.1	18.5	15.5	74	22.1	23.4	82.0	6.6	4.4	0746	6.7	22.4	23.7	101.9	0.850	4.2	0747	3.2					
01/11/1996	0730	5	65.9	45.6	17.7	13.7	65	20.9	22.2	84.0	9.1	6.1	0750	8.3	20.9	22.2	96.9	0.809	5.0	0751	7.0					
02/11/1996	0720	6	60.7	44.2	16.5	12.2	60	20.5	21.8	84.0	5.9	4.0	0753	11.8	20.4	21.9	92.1	0.769	4.8	0754	11.3					

Date	Time	Day	Humidity				Psychrometer				Constant Volume Pan				Standard Pan				<sup>18</sup> O	<sup>2</sup> H	Sample	Evap	V/Vo	Wind	
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level							V/Vo
03/11/1996	0800	7	56.2	44.0	18.8	13.2	54	19.5	21.0	82.0	7.7	5.2	0757	13.9	19.3	21.0	86.9	0.726	5.2	0758	14.4				
04/11/1996	0730	8	42.2	37.7	18.0	13.0	56	19.5	21.1	82.0	9.9	6.7	0760	16.3	19.4	21.3	80.9	0.676	6.0	0761	18.9				
05/11/1996	0745	9	32.4	33.6	19.9	13.5	48	19.8	21.2	82.0	10.8	7.3	0764	20.3	19.5	21.2	74.1	0.620	6.8	0765	27.0				
06/11/1996	0745	10	57.7	56.0	15.5	15.0	95	18.2	18.6	82.0	8.3	5.6	0767	20.6	18.0	18.7	70.5	0.590	3.6	0768	25.7	Start			
07/11/1996	0730	11	89.8	75.3	17.3	16.1	89	18.2	18.6	84.0	3.2	2.2	0771	21.0	18.0	18.7	69.1	0.579	1.4	0772	26.4	22.2			
08/11/1996	0620	12	74.2	62.6	17.7	15.5	80	20.6	21.5	81.0	1.5	1.0	0774	21.1	20.6	21.6	66.6	0.558	2.5	0775	28.6	37.2			
09/11/1996	0730	13	70.4	53.0	20.8	15.7	60	21.0	22.3	82.0	7.3	4.9	0778	22.9	20.8	22.4	62.8	0.526	3.8	0779	32.4	36.9			
10/11/1996	0815	14	61.3	51.3	24.5	16.0	41	22.4	23.7	82.0	6.1	4.1	0781	25.9	21.9	23.8	58.8	0.493	4.0	0782	36.1	34.8			
11/11/1996	0730	15	48.7	42.7	24.2	16.7	46	23.2	24.4	82.0	8.0	5.4	0785	27.7	22.9	24.5	53.9	0.453	4.9	0786	40.5	28.6			
12/11/1996	0745	16	54.6	46.3	22.5	20.7	85	25.6	26.4	82.0	7.4	5.0	0788	28.7	25.4	26.4	49.6	0.417	4.3	0789	45.6	14.6			
13/11/1996	0745	17	67.8	50.9	19.4	14.0	55	22.2	23.5	82.0	7.3	4.9	0792	29.5	21.6	23.7	45.0	0.379	4.6	0793	45.2	35.2			
14/11/1996	0730	18	67.4	47.3	16.5	13.8	74	21.4	22.5	82.0	7.2	4.8	0795	27.6	20.9	22.6	40.8	0.344	4.2	0796	49.5	31.3			
15/11/1996	0645	19	69.5	53.4	18.2	15.2	73	20.2	21.0	82.0	5.5	3.7	0799	30.1	19.5	21.2	37.0	0.313	3.8	0800	51.0	35.7			
16/11/1996	0815	20	77.0	61.0	17.4	14.8	77	18.3	19.2	82.0	6.0	4.0	0802	26.0	17.9	19.4	33.8	0.286	3.2	0803	52.1	92.9			
17/11/1996	0815	21	67.6	51.5	18.1	13.1	56	19.4	20.5	83.0	5.9	4.0	0806	27.2	18.8	20.6	30.6	0.260	3.2	0807	52.2	46.1			
18/11/1996	0730	22	68.3	49.3	18.2	14.7	69	20.6	21.8	82.0	5.5	3.7	0809	29.8	19.9	22.0	27.0	0.230	3.6	0810	56.6	30.4			
19/11/1996	0730	23	71.3	55.3	20.9	15.9	60	22.3	23.4	84.0	7.2	4.8	0813	29.4	21.4	23.5	23.7	0.203	3.3	0814	61.8	34.7			
20/11/1996	0730	24	72.7	55.7	21.2	17.2	67	23.7	24.8	82.0	5.0	3.4	0816	31.0	22.6	25.0	20.5	0.176	3.2	0817	60.4	24.4			
21/11/1996	0730	25	74.4	55.2	22.0	18.7	74	24.8	25.8	82.0	6.9	4.6	0820	29.0	23.9	26.0	16.8	0.146	3.7	0821	60.9	25.2			
22/11/1996	0630	26	73.9	56.3	21.0	19.2	85	26.0	27.0	82.0	6.5	4.4	0823	29.7	24.4	27.2	13.0	0.114	3.8	0824	62.0	26.7			
23/11/1996	0730	27	78.5	56.0	21.0	17.8	73	25.5	26.6	82.0	7.3	4.9	0827	31.7	23.9	26.7	9.1	0.082	3.9	0828	62.0	33.0			
24/11/1996	0800	28	65.3	47.2	18.9	13.4	54	21.7	23.5	82.5	8.9	6.0	0830	31.1	19.4	23.8	4.8	0.046	4.3	0831	65.2	46.3			
25/11/1996	0730	29	57.5	40.5	17.6	12.9	58	20.8	22.0	82.0	8.6	5.8	0834	30.4		22.0	0.5	0.015	4.3	0835	73.8	49.7			
26/11/1996	0730	30	59.8	47.0	19.6	16.2	71	21.7	22.9	82.0	7.4	5.0	0840	30.4		23.2		0.007		0837 @1120	81.5	48.4			
End Run 6																									
Std pans ends 1500 November 25 CV pan ends 0730 November 26																									
Run 7																									
26/11/1996	0800	0						20.0	22.9	82.0	0.0	0.0	0843	-12.7	19.6	23.2	100.0	1.000	0.0	0844	-11.7				
27/11/1996	0710	1	59.6	44.3	16.9	12.1	57	20.3	21.7	82.0	6.7	4.5	0845	-7.3	20.3	21.9	95.6	0.956	4.4	0846	-7.6	52.6			
28/11/1996	0620	2	65.6	48.7	15.2	13.6	86	20.5	21.7	82.0	7.0	4.7	0848	-3.3	20.4	21.9	91.1	0.912	4.5	0849	-3.5	40.9			
29/11/1996	0750	3	66.7	50.2	21.2	15.2	52	21.7	23.1	81.0	6.6	4.4	0852	0.6	21.7	23.3	86.8	0.869	4.3	0853	-2.0	37.4			
30/11/1996	0720	4	66.0	54.9	21.2	18.6	79	23.0	23.9	81.0	6.2	4.2	0855	3.7	22.8	24.0	82.3	0.824	4.5	0856	1.8	29.7			
01/12/1996	0815	5	72.3	62.3	21.0	17.8	73	21.4	22.3	82.0	6.6	4.4	0859	4.2	21.2	22.4	78.6	0.788	3.7	0860	4.9	50.2			
02/12/1996	0710	6	71.7	60.0	19.6	16.8	76	21.7	22.7	82.0	4.5	3.0	0862	6.2	21.6	22.9	75.1	0.753	3.5	0863	6.6	31.1			
03/12/1996	0740	7	63.6	46.3	17.8	11.8	49	20.6	22.2	82.0	7.3	4.9	0866	9.7	20.4	22.4	70.4	0.706	4.7	0867	11.1	38.8			
04/12/1996	0720	8	60.7	42.4	18.2	13.6	60	20.6	21.9	82.0	8.2	5.5	0869	13.9	20.3	22.1	65.8	0.661	4.6	0870	17.9	34.7			
05/12/1996	0740	9	60.2	44.5	17.9	13.9	65	20.6	22.0	82.0	8.1	5.4	0873	15.9	20.4	22.2	60.9	0.612	4.9	0874	23.2	42.3			
06/12/1996	0620	10	54.3	39.6	14.1	10.7	65	19.4	20.6	82.0	8.9	6.0	0876	18.5	19.0	20.8	55.8	0.561	5.1	0877	25.7	42.6			
07/12/1996	0750	11	54.8	41.4	18.4	12.3	49	19.5	21.0	82.0	8.0	5.4	0880	20.5	19.0	21.2	50.8	0.512	5.0	0881	31.2	51.0			
08/12/1996	0745	12	52.5	44.4	19.5	14.3	57	21.6	22.9	82.0	7.7	5.2	0883	21.8	21.2	22.9	46.3	0.467	4.5	0884	37.0	30.9			
09/12/1996	0720	13	68.3	52.4	20.2	15.8	62	22.8	24.4	82.0	6.5	4.4	0887	22.9	22.2	24.4	42.6	0.430	3.7	0888	40.9	23.4			



















Date	Time	Day	Humidity				Psychrometer				Constant Volume Pan				Standard Pan				Wind			
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level		V/Vo	Evap	Sample
13/10/1997	0600	37	75.1	57.6	11.0	10.8	98	19.8	20.9	83.0	4.2	2.8	2115	19.6	21.0	1.3	0.021	2.9	2116	70.9	26.6	
	2000															-1.0	0.009	2.3	2119	67.2		
14/10/1997	0600	38	73.9	57.4	12.9	10.8	78	19.2	20.3	83.0	4.7	3.2	2120	25.7	21.0	-2.0	0.003	1.0	2121	66.0	39.6	
	1000															-2.5	0.001	0.5	2124	66.3		
	1200															Dry	0.000		2125	68.1		
15/10/1997	0600	39	69.7	52.7	12.3	11.4	89	19.7	20.8	83.0	5.7	3.8	2126	26.0	21.0	N/S		N/S	N/S	N/S	42.6	
16/10/1997	0600	40	66.7	50.0	10.2	9.4	90	18.6	19.7	83.0	6.1	4.1	2129	27.5	20.0	N/S		N/S	N/S	N/S	47.9	
17/10/1997	0610	41	62.8	49.0	13.9	10.8	70	18.0	19.3	83.0	6.1	4.1	2132	28.2	19.4	N/S		N/S	N/S	N/S	61.9	
18/10/1997	0650	42	43.5	38.1	9.5	13.0	64	16.9	18.3	83.0	8.6	5.8	2135	27.4	18.4	N/S		N/S	N/S	N/S	92.4	
End Run 17																						
Run 18																						
18/10/1997	0930	0								83.0	0.0	0.0	2138	-14.7	150.0	1.000	0.0	2139	-13.3			
19/10/1997	0650	1	39.0	35.4	14.2	9.9	58	17.7	19.0	83.0	8.0	5.4	2140	-8.3	17.8	19.3	145.8	0.972	2141	-10.0	75.5	
20/10/1997	0600	2	28.2	30.0	17.4	10.3	39	18.3	19.4	82.0	9.5	6.4	2144	-2.4	18.2	19.6	139.3	0.929	2145	-7.3	98.5	
21/10/1997	0600	3	39.8	43.5	19.8	15.1	61	21.0	21.6	82.0	8.2	5.5	2148		21.0	21.7	134.3	0.896	2149		68.8	
22/10/1997	0600	4	50.4	44.2	14.8	13.5	87	22.1	23.0	82.0	7.4	5.0	2152	4.7	22.1	23.2	129.5	0.864	2153	-1.0	39.6	
23/10/1997	0610	5	61.5	54.7	16.9	16.5	96	23.1	23.9	82.0	5.8	3.9	2156		23.2	24.1	125.6	0.838	2157		20.5	
24/10/1997	0620	6	73.6	56.5	16.8	14.0	75	21.9	23.0	82.0	6.3	4.2	2160	9.5	22.1	23.3	121.7	0.812	2161	3.9	47.8	
25/10/1997	0630	7	74.1	54.6	14.4	13.8	94	19.3	20.2	82.0	6.1	4.1	2164		19.3	20.4	118.1	0.788	2165		31.1	
26/10/1997	0610	8	68.0	47.3	9.8	9.5	96	19.4	20.5	82.0	5.5	3.7	2168	12.6	19.4	20.8	114.2	0.763	2169	7.0	23.6	
27/10/1997	0600	9	69.5	49.8	13.1	12.3	92	20.5	21.6	82.0	5.5	3.7	2172		20.7	21.8	110.4	0.737	2173		23.0	
28/10/1997	0600	10	72.0	56.5	15.2	14.9	97	21.5	22.3	82.0	5.4	3.6	2176	15.1	21.7	22.5	107.0	0.715	2177	11.1	31.0	
29/10/1997	0610	11	60.0	45.1	14.6	11.2	67	19.1	20.2	82.0	7.8	5.2	2180		19.4	20.4	102.1	0.682	2181		56.0	
30/10/1997	0610	12	51.4	38.5	10.0	7.3	69	15.4	16.7	82.0	9.1	6.1	2184	18.4	15.5	17.0	96.2	0.643	2185	17.3	78.2	
31/10/1997	0610	13	39.7	31.4	12.0	7.2	50	17.2	18.3	82.0	7.8	5.2	2188		17.3	18.6	91.8	0.614	2189		62.7	
01/11/1997	0615	14	57.2	43.5	11.7	10.4	86	17.9	18.9	82.0	7.8	5.2	2192	24.4	17.9	19.2	87.5	0.586	2193	25.1	51.6	
02/11/1997	0630	15	59.2	50.6	15.8	12.0	64	18.8	19.9	82.0	6.2	4.2	2196		18.9	20.2	83.2	0.557	2197		65.2	
03/11/1997	0550	16	44.7	42.2	18.5	11.5	42	21.4	22.3	82.0	7.6	5.1	2200	25.3	21.4	22.5	78.9	0.528	2201	30.8	56.0	
04/11/1997	0600	17	58.4	51.0	19.5	17.5	83	22.0	22.6	82.0	9.2	6.2	2204	25.0	22.0	22.8	74.3	0.498	2205	33.6	52.4	
05/11/1997	0600	18	72.2	57.8	14.7	12.9	83	19.4	20.2	82.0	5.3	3.6	2208	25.3	19.4	20.4	70.7	0.474	2209	34.7	43.1	
06/11/1997	0615	19	58.4	47.3	12.6	9.5	68	17.6	18.7	82.0	7.3	4.9	2212		17.6	18.9	66.4	0.446	2213		67.0	
07/11/1997	0610	20	46.0	37.6	13.4	8.9	56	17.5	18.9	82.0	8.7	5.8	2216	29.2	17.4	19.2	61.2	0.411	2217	42.3	91.1	
08/11/1997	0645	21	58.0	46.2	15.9	11.9	62	18.5	19.6	82.0	7.5	5.0	2220		18.4	19.8	57.2	0.385	2221		68.4	
09/11/1997	0640	22	55.4	46.0	15.2	14.3	90	20.5	21.5	81.0	7.8	5.2	2224	31.6	20.5	21.7	52.4	0.353	2225	51.4	48.0	
10/11/1997	0600	23	64.2	52.4	17.1	14.3	74	21.7	22.6	81.0	6.4	4.3	2228		21.9	22.8	48.6	0.328	2229		29.1	
11/11/1997	0610	24	54.7	48.2	17.7	14.0	67	20.2	21.1	81.0	9.0	6.0	2232	30.7	20.0	21.3	43.3	0.292	2233	56.8	79.3	
12/11/1997	0610	25	48.4	46.5	18.4	14.4	65	19.5	20.4	81.0	10.8	7.3	2236		19.5	20.6	37.2	0.252	2237		128.3	
13/11/1997	0640	26	69.9	62.2	16.5	13.3	69	17.6	18.5	81.0	6.3	4.2	2240	30.3	17.7	18.6	34.5	0.234	2241	59.4	79.4	
14/11/1997	0600	27	64.4	53.6	14.0	10.8	68	17.4	18.4	81.0	4.6	3.1	2245		17.3	18.6	31.0	0.211	2246		40.7	
15/11/1997	0620	28	57.8	47.6	16.4	12.4	62	18.5	19.4	81.0	6.9	4.6	2250	30.0	18.7	19.5	27.1	0.185	2251	64.1	64.6	



Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan				<sup>18</sup> O	<sup>2</sup> H	Sample	<sup>2</sup> H	<sup>18</sup> O	Wind
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Pan T	Bath T	Level	V/Vo						
20/12/1997	0550	21	64.7	56.6	12.3	11.0	86	16.8	17.3	82.0	6.8	4.6	2417	28.1	17.0	17.3	92.3	0.464	3.8	2418	2418	68.9
21/12/1997	0610	22	62.6	56.8	18.8	15.5	72	19.4	20.0	82.0	5.9	4.0	2421	29.4	19.4	20.0	89.0	0.447	3.3	2422	2422	56.6
22/12/1997	0550	23	58.9	53.6	21.2	14.2	46	21.0	21.6	82.0	6.1	4.1	2425	28.7	21.0	21.8	85.0	0.427	4.0	2426	2426	52.5
23/12/1997	0630	24	40.3	41.1	27.8	16.9	32	23.2	23.7	82.0	9.0	6.0	2429	30.7	23.0	23.8	79.5	0.400	5.5	2430	2430	49.0
24/12/1997	0350	25	56.5	53.2	18.8	15.1	68	20.7	21.3	82.0	9.0	6.0	2433	31.2	20.8	21.4	74.2	0.373	5.3	2434	2434	59.6
25/12/1997	0600	26	56.0	50.4	18.2	13.6	60	19.5	20.1	81.0	8.3	5.6	2437	28.4	19.5	20.2	69.2	0.349	5.0	2438	2438	77.0
26/12/1997	0550	27	45.0	45.4	20.3	14.5	53	20.3	20.8	81.0	9.2	6.2	2441	29.9	20.2	21.0	64.2	0.324	5.0	2442	2442	74.8
27/12/1997	0550	28	54.0	54.3	22.2	20.8	88	24.3	24.6	81.0	9.8	6.6	2445	31.0	24.2	24.5	59.3	0.299	4.9	2446	2446	61.1
28/12/1997	0600	29	73.2	61.8	18.0	15.0	73	19.7	20.4	81.0	6.5	4.4	2449	29.9	19.5	20.5	55.7	0.281	3.6	2450	2450	64.1
29/12/1997	0540	30	61.2	55.4	18.0	14.0	65	19.9	20.6	88.0	15.8	10.6	2453	28.5	19.6	20.8	51.3	0.259	4.4	2454	2454	75.9
30/12/1997	0540	31	67.5	59.2	16.0	15.2	92	22.4	23.0	81.0	0.0	0.0	2457	30.7	22.0	23.0	47.4	0.240	3.9	2458	2458	59.8
Float jammed on CF pan, pan flooded night of December 30/31, CF Run 20 terminated. STD pan Run 20 continues																						
Start Cons Vol Run 20																						
31/12/1997	0620	0	75.4	62.5	18.8	17.5	88		22.4	86.0	0.0	0.0	2461	-11.0	21.6	22.6	43.8	0.222	3.6	2462	2462	33.7
01/01/1998	0550	1	65.3	57.7	19.1	14.6	61	20.8	21.4	86.0	11.5	7.7	2465	-7.1	20.5	21.5	40.0	0.203	3.8	2466	2466	55.2
02/01/1998	0540	2	58.2	53.2	17.0	12.7	61	18.9	19.6	86.0	9.5	6.4	2469	-1.9	18.6	19.7	35.4	0.180	4.6	2470	2470	79.8
03/01/1998	0620	3	61.2	51.9	17.8	12.8	56	19.2	19.9	83.0	2.7	1.8	2473	0.1	18.7	20.0	31.0	0.158	4.4	2474	2474	63.6
04/01/1998	0610	4	63.7	56.8	18.8	14.2	61	19.8	20.4	82.0	7.2	4.8	2477	4.1	19.4	20.4	27.1	0.139	3.9	2478	2478	53.1
05/01/1998	0540	5	50.2	54.2	20.8	15.8	60	21.7	22.3	81.0	6.8	4.6	2481	10.4	21.2	22.4	22.0	0.113	5.1	2482	2482	69.8
06/01/1998	0550	6	43.1	47.8	23.4	16.8	52	23.9	24.3	84.0	15.6	10.5	2485	10.4	23.4	24.4	18.0	0.094	4.0	2486	2486	56.3
07/01/1998	0540	7	30.2	37.4	25.0	14.2	29	24.2	24.6	81.0	8.0	5.4	2488		23.7	24.7	11.9	0.063	6.1	2489	2489	47.0
08/01/1998	0530	8	56.6	52.9	22.6	20.9	86	25.0	25.3	81.0	11.6	7.8	2491	17.6	24.5	25.3	6.1	0.034	5.8	2492	2492	42.4
09/01/1998	0550	9	69.5	62.8	21.4	16.7	62	22.1	22.5	81.0	7.1	4.8	2494		21.5	22.6	2.0	0.014	4.1	2495	2495	59.0
1800																						
10/01/1998	0550	10	69.2	61.1	20.9	17.5	72	22.1	22.4	82.0	12.0	8.1	2498	19.2	22.4	22.4	Dry	0.000	2.0	2499	2499	44.5
11/01/1998	0540	11	75.9	68.0	19.5	18.9	94	21.8	22.1	81.0	5.5	3.7	2501		20.5	21.5	40.0	0.203	3.8	2502	2502	33.1
12/01/1998	0550	12	79.5	70.3	19.0	16.5	78	21.7	22.1	81.0	6.3	4.2	2503	20.3	20.5	21.5	40.0	0.203	3.8	2504	2504	52.4
13/01/1998	0550	13	74.9	65.1	21.1	18.8	81	22.5	22.7	81.0	5.5	3.7	2505		20.5	21.5	40.0	0.203	3.8	2506	2506	40.6
14/01/1998	0540	14	84.2	70.5	19.5	18.8	93	23.0	23.3	81.0	5.4	3.6	2507	22.6	20.5	21.5	40.0	0.203	3.8	2508	2508	26.9
15/01/1998	0530	15	84.7	68.3	19.1	18.6	95	23.5	23.8	81.0	6.3	4.2	2509		20.5	21.5	40.0	0.203	3.8	2510	2510	25.7
16/01/1998	0520	16	81.8	77.5	21.4	20.0	88	21.6	21.8	84.0	9.3	6.3	2511	19.0	21.5	22.6	2.0	0.014	4.1	2512	2512	30.8
17/01/1998	0540	17	63.6	67.2	14.8	11.4	67	13.9		82.0	2.4	1.6	2512	20.7	21.5	22.6	-1.0	0.004	3.0	2513	2513	79.6
18/01/1998		18	56.8	70.2	Not read	January 18 & 19					5.6	3.8			22.4	22.4	Dry	0.000	2.0	2514	2514	65.4
19/01/1998		19	56.6	73.1	Values are av of 3 days						5.6	3.8			22.4	22.4	Dry	0.000	2.0	2515	2515	65.4
20/01/1998	0550	20	58.5	73.7	19.4	15.9	70	19.7		83.0	5.7	3.8	2513	20.7	20.5	21.5	40.0	0.203	3.8	2514	2514	65.5
21/01/1998	0545	21	72.7	63.9	18.3	14.9	70	19.9	20.5	81.0	5.1	3.4	2514	22.6	20.5	21.5	40.0	0.203	3.8	2515	2515	72.3
22/01/1998	0600	22	62.7	53.9	11.9	9.9	78	16.6	16.9	84.0	13.0	8.7	2516	22.8	16.6	16.9	84.0	0.000	2.0	2517	2517	81.1
23/01/1998	0600	23	66.7	58.0	17.8	14.8	73	18.3	18.6	81.0	4.2	2.8	2518	24.8	18.3	18.6	81.0	0.000	2.0	2519	2519	57.5
24/01/1998	0540	24	69.7	63.0	18.7	14.2	61	19.5	19.8	81.0	6.8	4.6	2520	24.7	19.5	19.8	81.0	0.000	2.0	2521	2521	55.1
25/01/1998	0540	25	57.4	59.2	21.5	15.0	50	20.0	20.4	81.0	8.2	5.5	2522	24.9	20.0	20.4	81.0	0.000	2.0	2523	2523	57.2
26/01/1998	0600	26	49.8	51.4	18.5	13.0	53	22.6	23.2	80.0	9.0	6.0	2524	24.7	22.6	23.2	80.0	0.000	2.0	2525	2525	52.0

Date	Time	Day	Humidity			Psychrometer			Constant Volume Pan				Standard Pan								
			Air	Norm	Dry	Wet	RH	PanT	Bath T	Level	Mano	Evap	Sample	<sup>2</sup> H	<sup>18</sup> O	Pan T	Bath T	Level	V/Vo	Evap	Sample
27/01/1998	0600	27	49.0	51.9	21.2	16.4	61	23.0	23.6	80.0	9.2	6.2	2526	26.0	2528	27.0	48.8				
28/01/1998	0610	28	52.3	53.9	19.5	15.3	64	21.6	22.1	80.0	11.6	7.8	2528	27.0	2530	26.7	83.2				
29/01/1998	0550	29	75.8	63.3	15.6	15.0	94	22.2	22.6	80.0	8.3	5.6	2530	26.7	2532	27.1	45.1				
30/01/1998	0600	30	63.7	55.7	14.4	13.0	84	21.7	22.4	80.0	9.7	6.5	2532	27.1	2534	28.4	31.6				
31/01/1998	0610	31	73.9	59.3	14.5	13.8	93	21.3	21.8	80.0	6.7	4.5	2534	28.4	2536	27.3	37.2				
01/02/1998	0550	32	80.1	65.6	14.5	14.0	95	20.2	20.7	80.0	7.4	5.0	2536	27.3	2537	27.4	44.8				
02/02/1998	0710	33	70.3	60.0	17.8	14.2	69	19.6	20.3	80.0	6.4	4.3	2537	27.4	2538	28.2	65.3				
03/02/1998	0740	34	68.4	57.0	20.5	14.9	56	20.9	21.4	80.0	7.2	4.8	2538	28.2	2540	28.0	48.3				
04/02/1998	0740	35	71.5	62.3	20.1	16.3	67	20.5	21.1	80.0	7.7	5.2	2539	27.2	2541	27.9	61.0				
05/02/1998	0720	36	59.0	54.5	17.9	13.1	58	17.9	18.5	80.0	8.5	5.7	2540	28.0	2542	28.5	84.6				
06/02/1998	0720	37	61.7	53.2	17.6	13.0	60	19.0	19.5	82.0	9.2	6.2	2541	27.9	2543	29.1	58.1				
07/02/1998	0730	38	57.6	53.3	16.7	11.5	54	16.8	17.3	85.0	12.0	8.1	2542	28.5	2544	31.1	82.2				
08/02/1998	0740	39	62.9	54.8	20.9	13.7	45	18.2	18.7	82.0	5.9	4.0	2543	29.1	2545	32.0	64.1				
09/02/1998	0740	40	38.0	41.6	25.7	14.7	27	21.7	22.3	81.0	8.5	5.7	2544	31.1	2546	30.8	45.3				
10/02/1998	0740	41	56.8	53.1	20.8	15.9	60	21.6	21.9	81.0	8.8	5.9	2545	32.0	2547	31.6	28.2				
11/02/1998	0730	42	73.5	63.0	19.5	17.2	80	19.2	19.4	81.0	7.6	5.1	2546	30.8	2548	29.2	23.5				
12/02/1998	0730	43	72.2	59.8	22.8	15.3	45	21.4	21.8	81.0	5.5	3.7	2547	31.6	2549	30.8	39.0				
13/02/1998	0740	44	61.0	54.9	22.5	19.0	72	21.5	21.8	81.0	6.5	4.4	2548	29.2	2549	30.8	37.4				
14/02/1998	0700	45	59.0	60.5	22.7	17.4	60	22.0	22.5	81.0	6.6	4.4	2549	30.8			35.6				

Equipment shut down 0700 February 14 1998. Days of continuous operation 688

δ<sub>A</sub> Air Vapour Sampling

Appendix 12.2

Date	Start	End	Time	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Comments
22/07/96	1120	1600	280	5.0	1.400	D	137.828	128.371	9.457					
						A	87.786	87.705	0.081	99.15	A 001	-89.9	-13.58	
29/07/96	1130	1430	180	4.0	0.720	D	133.758	128.371	5.387					
						A	87.728	87.705	0.023	99.57	A 002	-71.0	-10.78	
05/08/96	1130	1500	210	2.0	0.420	D	130.220	128.371	1.849					
						A	87.727	87.705	0.022	98.82	A 003	-105.7		Insufficient sample for oxygen
14/08/96	1145	1500	195	4.0	0.780	D	132.412	128.371	4.041					
						A	87.714	87.705	0.009	99.78	A 004	-82.2	-12.94	
19/08/96	1100	1500	240	5.0	1.200	D	134.256	128.371	5.885					
						A	87.749	87.705	0.044	99.26	A 005	-67.3	-10.78	
26/08/96	1110	1530	260	5.0	1.300	D	136.689	128.371	8.318					
						A	87.748	87.705	0.043	99.49	A 006	-86.4	-14.14	
02/09/96	1220	1630	250	4.0	1.000	D	135.004	128.371	6.633					
						A	87.725	87.705	0.020	99.70	A 007	-72.8	-11.55	
09/09/96	1140	1520	200	4.2	0.840	D	135.130	128.371	6.759					
						A	87.723	87.705	0.018	99.73	A 008	-77.1	-12.09	
16/09/96	1100	1510	250	5.0	1.250	D	137.523	128.371	9.152					
						A	87.799	87.705	0.094	98.98	A 009	-74.8		
22/09/96	1220	1600	220	4.0	0.880	D	132.863	128.371	4.492					
						A	87.725	87.705	0.020	99.56	A 010	-80.9	-12.30	
01/10/96	1220	1620	240	5.0	1.200	D	136.678	128.371	8.307					
						A	87.766	87.705	0.061	99.27	A 011	-79.9		
07/10/96	1150	1550	240	4.0	0.960	D	133.462	128.371	5.091					
						A	87.757	87.705	0.052	98.99	A 012	-68.8	-9.70	
14/10/96	1130	1530	240	4.0	0.960	D	137.155	128.371	8.784					
						A	87.748	87.705	0.043	99.51	A 013	-65.0		
21/10/96	1120	1520	240	4.0	0.960	D	138.725	128.371	10.354					
						A	87.725	87.705	0.020	99.81	A 014	-81.4	-11.80	Flow varied from 4.0 to 2.5
28/10/96	1045	1515	270	4.0	1.080	D	135.952	128.371	7.581					
						A	87.742	87.705	0.037	99.51	A 015	-64.3		
04/11/96	1030	1430	240	4.0	0.960	D	133.836	128.371	5.465					
						A	87.734	87.705	0.029	99.47	A 016	-83.0	-11.34	
11/11/96	1020	1600	340	4.0	1.360	D	134.465	128.371	6.094					
						A	87.761	87.705	0.056	99.09	A 017	-60.3		

Date	Start	End	Time	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Comments
18/11/96	1020	1540	320	5.0	1.600	D	139.736	128.371	11.365					
						A	87.736	87.705	0.031	99.73	A 018	-76.0	-11.23	
25/11/96	1035	1500	265	5.0	1.325	D	137.807	128.371	9.436					
						A	87.773	87.705	0.068	99.28	A 019	-79.4		
02/12/96	1020	1400	220	4.0	0.880	D	134.899	128.371	6.528					
						A	87.724	87.705	0.019	99.71	A 020	-86.6	-12.41	
09/12/96	1020	1500	280	4.0	1.120	D	138.368	128.371	9.997					
						A	87.735	87.705	0.030	99.70	A 021	-75.6		
16/12/96	1030	1400	210	4.0	0.840	D	134.110	128.371	5.739					
						A	87.741	87.705	0.036	99.38	A 022	-87.8	-12.20	
23/12/96	1110	1510	240	5.0	1.200	D	139.292	128.371	10.921					
						A	87.775	87.705	0.070	99.36	A 023	-87.7		
30/12/96	1015	1345	210	5.0	1.050	D	135.320	128.371	6.949					
						A	87.765	87.705	0.060	99.14	A 024	-80.2	-11.98	
06/01/97	1000	1400	240	5.0	1.200	D	135.224	128.371	6.853					
						A	87.800	87.705	0.095	98.63	A 025	-90.6		
13/01/97	1045	1430	225	5.0	1.125	D	138.003	128.371	9.632					
						A	87.829	87.705	0.124	98.73	A 026	-85.5	-12.33	
20/01/97	1115	1500	225	4.0	0.900	D	135.365	128.371	6.994					
						A	87.710	87.705	0.005	99.93	A 027	-96.7		
27/01/97	1010	1340	210	5.0	1.050	D	133.738	128.371	5.367					
						A	87.756	87.705	0.051	99.06	A 028	-91.8	-13.56	
03/02/97	1045	1400	195	5.0		D	139.784	128.371	11.413					Flow varied from 5.0 to 2.0
						A	87.754	87.705	0.049	99.57	A 029	-86.3		
10/02/97	1015	1400	225	5.0	1.125	D	137.613	128.371	9.242					
						A	87.797	87.705	0.092	99.01	A 030	-85.2	-12.83	
17/02/97	1045	1430	225	4.0	0.900	D	135.823	128.371	7.452					
						A	87.736	87.705	0.031	99.59	A 031	-84.4		
24/02/97	1130	1440	190	4.0	0.760	D	137.089	128.371	8.718					
						A	87.750	87.705	0.045	99.49	A 032	-93.1	-13.57	
03/03/97	0715	1130	255	4.0	1.020	D	134.455	128.371	6.084					
						A	87.755	87.705	0.050	99.18	A 033	-89.8		
10/03/97	0910	1240	210	4.0	0.840	D	136.860	128.371	8.489					
						A	87.736	87.705	0.031	99.64	A 034	-72.8	-9.91	
17/03/97	0920	1350	270	4.0	1.080	D	136.690	128.371	8.319					
						A	87.756	87.705	0.051	99.39	A 035	-81.7		

Date	Start	End	Time	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	$^2\text{H}$	$^{18}\text{O}$	Comments
24/03/97	0850	1340	290	4.0	1.160	D	136.680	128.371	8.309					
						A	87.792	87.705	0.087	98.96	A 036	-82.1	-12.22	
31/03/97	1010	1410	240	4.0	0.960	D	137.426	128.371	9.055					
						A	87.865	87.705	0.160	98.26	A 037	-75.7		
07/04/97	0945	1415	270	4.0	1.080	D	138.535	128.371	10.164					
						A	87.770	87.705	0.065	99.36	A 038	-112.3	-15.91	
14/04/97	0920	1400	280	4.0	1.120	D	136.700	128.371	8.329					
						A	87.784	87.705	0.079	99.06	A 039	-80.0		
21/04/97	1030	1400	210	4.0	0.840	D	134.157	128.371	5.786					
						A	87.725	87.705	0.020	99.66	A 040	-90.0	-12.83	
28/04/97	1240	1600	200	4.0	0.800	D	133.311	128.371	4.940					
						A	87.739	87.705	0.034	99.32	A 041	-79.6		
05/05/97	0900	1330	270	4.0	1.080	D	135.203	128.371	6.832					
						A	87.758	87.705	0.053	99.23	A 042	-82.8	-12.72	
12/05/97	1220	1620	240	4.0	0.960	D	136.397	128.371	8.026					
						A	87.744	87.705	0.039	99.52	A 043	-121.4		
19/05/97	1040	1440	240	4.0	0.960	D	135.942	128.371	7.571					
						A	87.736	87.705	0.031	99.59	A 044	-116.6	-16.53	
26/05/97	0915	1330	255	4.0	1.020	D	135.368	128.371	6.997					
						A	87.732	87.705	0.027	99.62	A 045	-89.2		
02/06/97	1030	1600	330	4.0	N/N	D	137.831	128.371	9.460					Flow varied from 4.0 to 2.3
						A	87.744	87.705	0.039	99.59	A 046	-99.1	-14.00	
09/06/97	0910	1320	250	4.0	1.000	D	134.114	128.371	5.743					
						A	87.944	87.705	0.239	96.00	A 047	-90.7		
16/06/97	1000	1400	240	4.0	0.960	B	134.940	129.900	5.040					
						C	129.980	129.964	0.016	99.68	A 048	-90.3	-12.43	
21/06/97	2110	0040	210	4.0	0.840	B	135.500	129.900	5.600					Concurrent with E 004
23/06/97	1100	1420	200	4.0	0.800	A	92.820	87.705	5.115					
26/06/97	1800	2130	210	4.0	0.840	B	136.920	129.900	7.020					Concurrent with E 005
30/06/97	1000	1400	240	4.0	0.960	D	131.920	128.371	3.549					
						A	87.740	87.705	0.035	99.02	A 052	-96.9	-14.33	
07/07/97	1000	1400	240	5.0	1.200	D	134.280	128.371	5.909					
						A	87.840	87.705	0.135	97.77	A 053	-92.8		

Date	Start	End	Time	Flow (l/min)	Volume Trap (cu m)	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Comments
	2000	2330	210	4.0	0.840	B 134.720	129.900	4.820		A 054	-89.3	-13.39	Concurrent with E 006
10/07/97	1800	2200	240	4.0	0.960	D 133.120	128.371	4.749		A 055	-102.3		Concurrent with E 007
14/07/97	1015	1415	240	4.0	0.960	D 132.840	128.371	4.469					
						A 87.750	87.705	0.045	99.00	A 056	-90.7	-14.25	
16/07/97	1745	2200	255	4.0	1.020	B 133.940	129.900	4.040		A 057	-75.2		Concurrent with E 008
17/07/97	1740	2040	180	4.0	0.720	B 133.470	129.900	3.570		A 058	-68.4	-8.92	Concurrent with E 009
21/07/97	0940	1420	280	4.0	1.120	D 132.320	128.371	3.949					
						A 87.750	87.705	0.045	98.87	A 059	-78.7		
22/07/97	0500	0725	145	4.0	0.580	B 132.200	129.900	2.300		A 060	-76.6	-9.27	Concurrent with E 010
28/07/97	1015	1415	240	4.0	0.960	D 134.960	128.371	6.589					
						A 87.720	87.705	0.015	99.77	A 061	-88.0		
02/08/97	1745	2000	135	4.0	0.540	B 134.000	129.900	4.100		A 062	-81.4	-10.19	Concurrent with E 011
04/08/97	1130	1515	225	2.5	0.562	D 132.880	128.371	4.509					
						A 87.690	87.705	-0.015	100.33	A 063	-91.8		
11/08/97	0940	1330	230	4.0	0.920	D 132.590	128.371	4.219					
						A 87.740	87.705	0.035	99.18	A 064	-96.1	-14.72	
	1745	1945	120	4.0	0.480	B 133.010	129.900	3.110		A 065	-91.5		Concurrent with E 012
18/08/97	1010	1410	240	4.0	0.960	D 132.170	128.371	3.799					Trap B broken, new dry weight: 124.87
						A 87.770	87.705	0.065	98.32	A 066	-86.5	-13.03	
	1745	1945	120	4.0	0.480	B 127.770	124.87	2.900		A 067	-79.1		Concurrent with E 013
23/08/97	0505	0700	110	4.0	0.440	B 127.150	124.58	2.570		A 068	-93.4	-13.31	Concurrent with E 014
25/08/97	1020	1420	240	4.0	0.960	D 132.830	128.44	4.390					
						A 87.760	87.72	0.040	99.10	A 069	-80.2		
30/08/97	1810	2000	110.0	4.0	0.440	B 127.510	124.58	2.930		A 070	-88.6	-12.79	Concurrent with E 015
01/09/97	0915	1415	300	4.0	1.200	D 137.300	128.44	8.860					
						A 87.790	87.72	0.070	99.22	A 071	-97.0		

Date	Start	End	Time	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Comments
08/09/97	0950	1350	240	4.0	0.960	D	135.460	128.44	7.020					
						A	87.760	87.72	0.040	99.43	A 072	-87.8	-12.70	
15/09/97	0920	1320	240	4.0	0.960	D	134.470	128.44	6.030					
						A	87.740	87.72	0.020	99.67	A 073	-82.2		Concurrent with E 016
17/09/97	1830	2030	120	4.0	0.480	B	129.120	124.58	4.540					
22/09/97	0950	1350	240	4.0	0.960	D	136.040	128.44	7.600					
						A	87.740	87.72	0.020	99.74	A 075	-79.7		
29/09/97	1000	1400	240	4.0	0.960	B	131.310	124.58	6.730					
						C	130.220	130.21	0.010	99.85	A 076	-90.2	-12.90	
04/10/97	0400	0600	120	4.0	0.480	B	128.340	124.58	3.760					Concurrent with E 017
06/10/97	0810	1310	300	4.0	1.200	D	133.220	128.44	4.780					
						B	126.760	124.58	2.180					
13/10/97	0500	0630	90	4.0	0.360	B	127.470	124.58	2.890					Concurrent with E 018
						D	135.470	128.44	7.030					
						A	87.750	87.72	0.030	99.58	A 081	-79.4		
19/10/97	0900	1300	240	4.0	0.960	D	132.300	128.44	3.860					
						A	87.730	87.72	0.010	99.74	A 082	-85.2	-12.71	
21/10/97	0615	0700	45	4.0	0.180	B	125.970	124.58	1.390					Concurrent with E 019
26/10/97	0815	1245	270	4.0	1.080	D	134.640	128.44	6.200					
						A	87.730	87.72	0.010	99.84	A 084	-93.5	-14.02	
02/11/97	0720	1240	310	4.0	1.240	D	135.700	128.44	7.260					
						A	87.760	87.72	0.040	99.45	A 085	-89.1		
04/11/97	0630	0800	90	4.0	0.360	D	131.730	128.44	3.290					
07/11/97	0635	0800	85	4.0	0.340	D	129.990	128.44	1.550					
09/11/97	0850	1250	240	4.0	0.960	B	129.830	124.58	5.250					
						A	87.750	87.72	0.030	99.43	A 088	-75.8	-11.61	Preceeded immediately by E 020
16/11/97	0745	1330	345	4.0	1.380	D	134.490	128.44	6.050					
						A	87.780	87.72	0.060	99.02	A 089	-107.8		
19/11/97	0620	0750	90	4.0	0.360	B	126.960	124.58	2.380					Concurrent with E 021
23/11/97	0645	0840	115	4.0	0.460	B	128.270	124.58	3.690					
						D	136.980	128.44	8.540					
						A	87.750	87.72	0.030	99.65	A 092	-84.5	-12.18	
26/11/97	0650	0750	60	4.0	0.240	D	130.600	128.44	2.160					
28/11/97	0640	0740	60	4.0	0.240	D	130.640	128.44	2.200					
30/11/97	0730	0850	80	4.0	0.320	D	131.250	128.44	2.810					
						A	87.730	87.72	0.010	99.65	A 095	-83.6		

Date	Start	End	Time	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Comments	
	0910	1240	210	4.0	0.840	B	130.940	124.58	6.360		A 096	-78.4	-11.36		
05/12/97	0640	0740	60	4.0	0.240	D	131.340	128.44	2.900		A 097	-95.2			
07/12/97	0830	1230	240	4.0	0.960	D	133.980	128.44	5.540						
	1230	1330	60	4.0	0.240	A	87.730	87.72	0.010	99.82	A 098	-98.1	-13.45		
11/12/97	0630	0800	90	4.0	0.360	B	126.650	124.58	2.070		A 099	-85.0			
13/12/97	0650	0810	80	4.0	0.320	B	128.220	124.58	3.640		A 100	-74.8	-9.62		
14/12/97	0700	1240	340	4.0	1.360	D	126.360	124.58	1.780		A 101	-89.4			
							135.550	128.44	7.110						
16/12/97	0630	0750	80	4.0	0.320	A	87.750	87.72	0.030	99.58	A 102	-93.4	-13.43		
21/12/97	0710	1200	290	4.0	1.160	D	131.340	128.44	2.900		A 103	-73.1			
							137.220	128.44	8.780						
23/12/97	0715	0815	60	4.0	0.240	A	87.750	87.72	0.030	99.66	A 104	-84.5	-11.56		
26/12/97	0650	0800	70	4.0	0.280	D	129.620	128.44	1.180		A 105	-79.3			
28/12/97	0700	1240	340	4.0	1.360	D	130.170	128.44	1.730		A 106	-91.3	-11.77		
							139.550	128.44	11.110						
04/01/98	0700	1220	320	4.0	1.280	A	87.760	87.72	0.040	99.64	A 107	-86.2			
							138.090	128.44	9.650						
						A	87.790	87.72	0.070	99.28	A 108	-81.8			
Averages													-85.2	-12.26	

δ<sub>E</sub> Lake Vapour Sampling

Date	Start	End	Time	CO <sub>2</sub>	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Nitrogen (min, l/min)	Comments																																																				
05:09:96	0345	0630	165	No	75 at 5 90 at 4	0.74	D A	132.844 87.737	128.371 87.705	4.473 0.032	99.29	E 001	-105.9	-16.23	Start 15 at 5 End 30 at 5	Pickup at East Lake rain gauge #2																																																				
<table border="1" style="margin: auto;"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Water T</th> </tr> </thead> <tbody> <tr><td>0345</td><td>6.6</td><td>100</td><td>16.5</td></tr> <tr><td>0400</td><td>6.5</td><td></td><td></td></tr> <tr><td>0415</td><td>6.1</td><td></td><td></td></tr> <tr><td>0430</td><td>5.8</td><td>100</td><td></td></tr> <tr><td>0445</td><td>6.0</td><td></td><td></td></tr> <tr><td>0500</td><td>5.7</td><td>96</td><td></td></tr> <tr><td>0515</td><td>5.7</td><td></td><td></td></tr> <tr><td>0530</td><td>5.5</td><td>96</td><td></td></tr> <tr><td>0545</td><td>5.5</td><td></td><td>16.0</td></tr> <tr><td>0600</td><td>5.5</td><td></td><td></td></tr> <tr><td>0615</td><td>5.5</td><td>94</td><td></td></tr> <tr><td>0630</td><td>5.5</td><td></td><td>15.7</td></tr> </tbody> </table> <p style="text-align: center;">Vapour drift tended to be off shore, varying between NE and SE</p>																	Time	Air T	RH	Water T	0345	6.6	100	16.5	0400	6.5			0415	6.1			0430	5.8	100		0445	6.0			0500	5.7	96		0515	5.7			0530	5.5	96		0545	5.5		16.0	0600	5.5			0615	5.5	94		0630	5.5		15.7
Time	Air T	RH	Water T																																																																	
0345	6.6	100	16.5																																																																	
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0615	5.5	94																																																																		
0630	5.5		15.7																																																																	
08:10:96	0050	0530	280	No	4.0	1.12	B C	138.900 129.986	129.900 129.964	9.000 0.022	99.76	E 002	-107.2	-15.82	Start 20 at 10 End 20 at 10	Pickup at East Lake rain gauge #2																																																				
<table border="1" style="margin: auto;"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Water T</th> </tr> </thead> <tbody> <tr><td>0040</td><td>13.1</td><td>95</td><td>22.2</td></tr> <tr><td>0100</td><td>12.5</td><td></td><td></td></tr> <tr><td>0130</td><td>12.0</td><td>95</td><td></td></tr> <tr><td>0200</td><td>12.0</td><td>95</td><td>21.6</td></tr> <tr><td>0230</td><td>11.7</td><td></td><td></td></tr> <tr><td>0300</td><td>11.5</td><td>98</td><td>21.5</td></tr> <tr><td>0330</td><td>11.2</td><td></td><td></td></tr> <tr><td>0400</td><td>11.0</td><td>96</td><td>21.0</td></tr> <tr><td>0430</td><td>10.8</td><td></td><td></td></tr> <tr><td>0500</td><td>10.5</td><td>95</td><td>20.5</td></tr> <tr><td>0530</td><td>10.5</td><td></td><td></td></tr> </tbody> </table>																	Time	Air T	RH	Water T	0040	13.1	95	22.2	0100	12.5			0130	12.0	95		0200	12.0	95	21.6	0230	11.7			0300	11.5	98	21.5	0330	11.2			0400	11.0	96	21.0	0430	10.8			0500	10.5	95	20.5	0530	10.5						
Time	Air T	RH	Water T																																																																	
0040	13.1	95	22.2																																																																	
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0530	10.5																																																																			
14:06:97	1900	2300	240	No	4.0	0.960	D A	133.572 87.752	128.371 87.705	5.201 0.047	99.10	E 003	-111.6	-17.17	Start 20 at 8 End 20 at 8	Floating pickup adjacent Ts 6 thermistors Visible condensation in link from permanent line to trap, purged with nitrogen through trap																																																				
<table border="1" style="margin: auto;"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>1900</td><td>9.6</td><td>90</td><td>17.8</td><td>17.3</td></tr> <tr><td>1930</td><td></td><td>94</td><td>17.5</td><td>17.1</td></tr> <tr><td>2000</td><td>8.0</td><td>94</td><td>17.2</td><td>17.0</td></tr> <tr><td>2030</td><td>7.2</td><td></td><td>16.9</td><td>17.0</td></tr> <tr><td>2100</td><td></td><td></td><td>16.5</td><td>16.7</td></tr> <tr><td>2130</td><td></td><td></td><td>16.2</td><td>16.5</td></tr> <tr><td>2200</td><td></td><td></td><td>16.0</td><td>16.5</td></tr> <tr><td>2230</td><td>7.0</td><td>95</td><td>15.8</td><td>16.4</td></tr> <tr><td>2300</td><td>6.7</td><td>95</td><td>15.6</td><td>16.2</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	1900	9.6	90	17.8	17.3	1930		94	17.5	17.1	2000	8.0	94	17.2	17.0	2030	7.2		16.9	17.0	2100			16.5	16.7	2130			16.2	16.5	2200			16.0	16.5	2230	7.0	95	15.8	16.4	2300	6.7	95	15.6	16.2		
Time	Air T	RH	Ts 6	Bath T																																																																
1900	9.6	90	17.8	17.3																																																																
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Date	Start	End	Time	CO <sub>2</sub>	Flow	Volume	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Nitrogen	Comments																																																		
				No	(l/min)	(cu m)									(min, l/min)																																																			
21:06:97	2110	0040	210	No	4.0	0.840	D	135.220	128.371	6.849		E 004	-104.2	-15.24	End 20 at 8	Line to trap insulated, no visible condensation This is permanent line to floating trap Concurrent with A 049																																																		
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr> <td>2110</td> <td>10.5</td> <td>95</td> <td>16.9</td> <td>17.0</td> </tr> <tr> <td>2200</td> <td>10.0</td> <td>95</td> <td>16.5</td> <td>16.8</td> </tr> <tr> <td>2300</td> <td>10.5</td> <td>95</td> <td>16.1</td> <td>16.5</td> </tr> <tr> <td>2400</td> <td>12.0</td> <td>98</td> <td>15.8</td> <td>16.5</td> </tr> <tr> <td>0040</td> <td>11.8</td> <td>95</td> <td>15.7</td> <td>16.4</td> </tr> </tbody> </table> <p>Calm, minor cloud Calm, 50% cloud cover Calm, 70% cloud cover, drizzle at 2330, 100% cloud cover Calm, 90% to 50% cloud cover Calm, 20% cloud cover</p>																	Time	Air T	RH	Ts 6	Bath T	2110	10.5	95	16.9	17.0	2200	10.0	95	16.5	16.8	2300	10.5	95	16.1	16.5	2400	12.0	98	15.8	16.5	0040	11.8	95	15.7	16.4																				
Time	Air T	RH	Ts 6	Bath T																																																														
2110	10.5	95	16.9	17.0																																																														
2200	10.0	95	16.5	16.8																																																														
2300	10.5	95	16.1	16.5																																																														
2400	12.0	98	15.8	16.5																																																														
0040	11.8	95	15.7	16.4																																																														
26:06:97	1800	2130	210	No	4.0	0.840	D	135.410	128.371	7.039		E 005	-95.7	-14.14 -14.09	End 20 at 8	Concurrent with A 051																																																		
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr> <td>1800</td> <td>14.8</td> <td>89</td> <td>20.0</td> <td>18.6</td> </tr> <tr> <td>1900</td> <td>13.6</td> <td>95</td> <td>19.1</td> <td>18.4</td> </tr> <tr> <td>1930</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2000</td> <td>13.0</td> <td>98</td> <td>18.1</td> <td>18.0</td> </tr> <tr> <td>2100</td> <td>12.2</td> <td>95</td> <td>17.0</td> <td>17.6</td> </tr> <tr> <td>2130</td> <td>11.2</td> <td>95</td> <td>16.6</td> <td>17.5</td> </tr> </tbody> </table> <p>Calm, scattered high cloud Ground fog forming on adjacent hockey fields Calm, clear sky, fog partially dispersed Calm, sky clear, fog almost dispersed Calm, clear sky</p>																	Time	Air T	RH	Ts 6	Bath T	1800	14.8	89	20.0	18.6	1900	13.6	95	19.1	18.4	1930					2000	13.0	98	18.1	18.0	2100	12.2	95	17.0	17.6	2130	11.2	95	16.6	17.5															
Time	Air T	RH	Ts 6	Bath T																																																														
1800	14.8	89	20.0	18.6																																																														
1900	13.6	95	19.1	18.4																																																														
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2000	13.0	98	18.1	18.0																																																														
2100	12.2	95	17.0	17.6																																																														
2130	11.2	95	16.6	17.5																																																														
07:07:97	2000	2330	210	No	4.0	0.840	C	134.260	129.964	4.296		E 006	-107.1	-16.14	End 15 at 8	Concurrent with A 054																																																		
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr> <td>2000</td> <td>7.0</td> <td>95</td> <td>13.2</td> <td>14.1</td> </tr> <tr> <td>2030</td> <td>7.8</td> <td>95</td> <td>12.9</td> <td>14.0</td> </tr> <tr> <td>2100</td> <td>6.9</td> <td>95</td> <td>12.6</td> <td>13.9</td> </tr> <tr> <td>2130</td> <td>6.5</td> <td>95</td> <td>12.5</td> <td>13.7</td> </tr> <tr> <td>2200</td> <td>5.5</td> <td>95</td> <td>12.2</td> <td>13.5</td> </tr> <tr> <td>2230</td> <td>5.0</td> <td>95</td> <td>11.7</td> <td>13.4</td> </tr> <tr> <td>2300</td> <td>5.0</td> <td>95</td> <td>11.3</td> <td>13.3</td> </tr> <tr> <td>2330</td> <td>4.5</td> <td>96</td> <td>11.1</td> <td>13.1</td> </tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	2000	7.0	95	13.2	14.1	2030	7.8	95	12.9	14.0	2100	6.9	95	12.6	13.9	2130	6.5	95	12.5	13.7	2200	5.5	95	12.2	13.5	2230	5.0	95	11.7	13.4	2300	5.0	95	11.3	13.3	2330	4.5	96	11.1	13.1					
Time	Air T	RH	Ts 6	Bath T																																																														
2000	7.0	95	13.2	14.1																																																														
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2100	6.9	95	12.6	13.9																																																														
2130	6.5	95	12.5	13.7																																																														
2200	5.5	95	12.2	13.5																																																														
2230	5.0	95	11.7	13.4																																																														
2300	5.0	95	11.3	13.3																																																														
2330	4.5	96	11.1	13.1																																																														
10:07:97	1800	2200	240	No	4.0	0.960	A	91.950	87.705	4.245		E 007	-119.2	-18.4	End 15 at 8	Concurrent with A 055																																																		
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr> <td>1800</td> <td>6.8</td> <td>95</td> <td>15.5</td> <td>14.2</td> </tr> <tr> <td>1830</td> <td>6.2</td> <td>95</td> <td>15.3</td> <td>14.0</td> </tr> <tr> <td>1900</td> <td>5.1</td> <td>95</td> <td>14.8</td> <td>13.9</td> </tr> <tr> <td>1930</td> <td>4.6</td> <td>95</td> <td>14.3</td> <td>13.6</td> </tr> <tr> <td>2000</td> <td>4.1</td> <td>95</td> <td>13.7</td> <td>13.5</td> </tr> <tr> <td>2030</td> <td>3.4</td> <td>95</td> <td>13.3</td> <td>13.3</td> </tr> <tr> <td>2100</td> <td>3.2</td> <td>95</td> <td>12.7</td> <td>13.0</td> </tr> <tr> <td>2130</td> <td>2.8</td> <td>95</td> <td>12.4</td> <td>12.9</td> </tr> <tr> <td>2200</td> <td>2.7</td> <td>95</td> <td>12.0</td> <td>12.8</td> </tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	1800	6.8	95	15.5	14.2	1830	6.2	95	15.3	14.0	1900	5.1	95	14.8	13.9	1930	4.6	95	14.3	13.6	2000	4.1	95	13.7	13.5	2030	3.4	95	13.3	13.3	2100	3.2	95	12.7	13.0	2130	2.8	95	12.4	12.9	2200	2.7	95	12.0	12.8
Time	Air T	RH	Ts 6	Bath T																																																														
1800	6.8	95	15.5	14.2																																																														
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Date	Start	End	Time	CO <sub>2</sub>	Flow	Volume	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Nitrogen	Comments																																																							
				No	(l/min)	(cu m)									(min, l/min)																																																								
16:07:97	1745	2200	255	No	4.0	1.020	C	135.490	129.964	5.526		E 008	-101.2	-16.26	End 15 at 8	Concurrent with A 057																																																							
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>1745</td><td>9.0</td><td>78</td><td>14.9</td><td>13.5</td></tr> <tr><td>1800</td><td>8.4</td><td>82</td><td>14.8</td><td>13.5</td></tr> <tr><td>1830</td><td>7.7</td><td>86</td><td>14.5</td><td>13.4</td></tr> <tr><td>1900</td><td>11.3</td><td>56</td><td>14.2</td><td>13.2</td></tr> <tr><td>1930</td><td>11.4</td><td>59</td><td>13.9</td><td>13.2</td></tr> <tr><td>2000</td><td>10.5</td><td>66</td><td>13.7</td><td>13.1</td></tr> <tr><td>2030</td><td>10.0</td><td>69</td><td>13.3</td><td>13.0</td></tr> <tr><td>2100</td><td>9.7</td><td>69</td><td>12.8</td><td>12.9</td></tr> <tr><td>2130</td><td>9.5</td><td>70</td><td>12.5</td><td>12.8</td></tr> <tr><td>2200</td><td>8.0</td><td>76</td><td>12.3</td><td>12.7</td></tr> </tbody> </table> <p>winds calm sky clear, scattered cirrus cirrus increasing high cirrus, light easterly drift light easterly drift calm, sky mostly clear, 25% scattered cirrus E drift, 50% cirrus cover sky almost clear, slight hazy cirrus light E drift hazy cirrus, large moon dog, wind calm</p> <p>Anemometer 1.11km in 82 minutes, drift 13.5m/minute average</p>																	Time	Air T	RH	Ts 6	Bath T	1745	9.0	78	14.9	13.5	1800	8.4	82	14.8	13.5	1830	7.7	86	14.5	13.4	1900	11.3	56	14.2	13.2	1930	11.4	59	13.9	13.2	2000	10.5	66	13.7	13.1	2030	10.0	69	13.3	13.0	2100	9.7	69	12.8	12.9	2130	9.5	70	12.5	12.8	2200	8.0	76	12.3	12.7
Time	Air T	RH	Ts 6	Bath T																																																																			
1745	9.0	78	14.9	13.5																																																																			
1800	8.4	82	14.8	13.5																																																																			
1830	7.7	86	14.5	13.4																																																																			
1900	11.3	56	14.2	13.2																																																																			
1930	11.4	59	13.9	13.2																																																																			
2000	10.5	66	13.7	13.1																																																																			
2030	10.0	69	13.3	13.0																																																																			
2100	9.7	69	12.8	12.9																																																																			
2130	9.5	70	12.5	12.8																																																																			
2200	8.0	76	12.3	12.7																																																																			
17:07:97	1740	2040	180	No	4.0	0.720	C	133.850	129.900	3.950		E 009	-105.8	-16.53	End 15 at 8	Concurrent with A 058 Minor condensation in line																																																							
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>1740</td><td>10.7</td><td>78</td><td>16.3</td><td>14.4</td></tr> <tr><td>1800</td><td>9.5</td><td>77</td><td>15.9</td><td>14.2</td></tr> <tr><td>1830</td><td>8.5</td><td>82</td><td>15.5</td><td>14.0</td></tr> <tr><td>1900</td><td>7.3</td><td>83</td><td>14.9</td><td>13.8</td></tr> <tr><td>1930</td><td>6.5</td><td>87</td><td>14.5</td><td>13.6</td></tr> <tr><td>2000</td><td>6.0</td><td>89</td><td>14.0</td><td>13.5</td></tr> <tr><td>2030</td><td>5.3</td><td>94</td><td>13.7</td><td>13.4</td></tr> <tr><td>2040</td><td>5.2</td><td>94</td><td>13.6</td><td>13.4</td></tr> </tbody> </table> <p>sky clear, scattered cirrus, calm calm, sky clear calm, sky clear calm, sky clear calm, sky clear some condensation in line between pans and traps, heated with lamp and re-vaporized calm, sky clear calm, sky clear</p>																	Time	Air T	RH	Ts 6	Bath T	1740	10.7	78	16.3	14.4	1800	9.5	77	15.9	14.2	1830	8.5	82	15.5	14.0	1900	7.3	83	14.9	13.8	1930	6.5	87	14.5	13.6	2000	6.0	89	14.0	13.5	2030	5.3	94	13.7	13.4	2040	5.2	94	13.6	13.4										
Time	Air T	RH	Ts 6	Bath T																																																																			
1740	10.7	78	16.3	14.4																																																																			
1800	9.5	77	15.9	14.2																																																																			
1830	8.5	82	15.5	14.0																																																																			
1900	7.3	83	14.9	13.8																																																																			
1930	6.5	87	14.5	13.6																																																																			
2000	6.0	89	14.0	13.5																																																																			
2030	5.3	94	13.7	13.4																																																																			
2040	5.2	94	13.6	13.4																																																																			
22:07:97	0500	0725	145	No	4.0	0.580	C	132.340	129.900	2.440		E 010	-108.3	-15.66	End 15 at 8	Concurrent with A 060 Good run, no condensation																																																							
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>0500</td><td>2.3</td><td>89</td><td>8.2</td><td>11.4</td></tr> <tr><td>0530</td><td>1.8</td><td>90</td><td>8.1</td><td>11.1</td></tr> <tr><td>0600</td><td>1.3</td><td>90</td><td>7.9</td><td>11.0</td></tr> <tr><td>0630</td><td>1.2</td><td>91</td><td>7.8</td><td>10.6</td></tr> <tr><td>0700</td><td>0.8</td><td>93</td><td>7.7</td><td>10.5</td></tr> <tr><td>0725</td><td>0.9</td><td>94</td><td>7.5</td><td>10.5</td></tr> </tbody> </table> <p>calm, sky clear calm, sky clear calm, sky clear calm, sky clear calm, sky clear calm, sky clear sun up, frost on hockey fields</p>																	Time	Air T	RH	Ts 6	Bath T	0500	2.3	89	8.2	11.4	0530	1.8	90	8.1	11.1	0600	1.3	90	7.9	11.0	0630	1.2	91	7.8	10.6	0700	0.8	93	7.7	10.5	0725	0.9	94	7.5	10.5																				
Time	Air T	RH	Ts 6	Bath T																																																																			
0500	2.3	89	8.2	11.4																																																																			
0530	1.8	90	8.1	11.1																																																																			
0600	1.3	90	7.9	11.0																																																																			
0630	1.2	91	7.8	10.6																																																																			
0700	0.8	93	7.7	10.5																																																																			
0725	0.9	94	7.5	10.5																																																																			
02:08:97	1745	2000	135	No	4.0	0.540	C	133.850	129.900	3.950		E 011	-98.6	-14.53	End 15 at 8	Concurrent with A 062 Good run, no condensation																																																							
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>1745</td><td>13.7</td><td>89</td><td>19.1</td><td>18.8</td></tr> <tr><td>1800</td><td>13.0</td><td>90</td><td>18.9</td><td>18.6</td></tr> <tr><td>1830</td><td>11.7</td><td>90</td><td>18.4</td><td>18.5</td></tr> <tr><td>1900</td><td>11.0</td><td>91</td><td>18.0</td><td>18.4</td></tr> <tr><td>1930</td><td>10.6</td><td>93</td><td>17.6</td><td>18.1</td></tr> <tr><td>2000</td><td>10.5</td><td>94</td><td>17.4</td><td>17.9</td></tr> </tbody> </table> <p>calm, sky clear calm, sky clear calm, sky clear calm, sky clear scattered cloud to north, calm scattered cloud to north, calm</p>																	Time	Air T	RH	Ts 6	Bath T	1745	13.7	89	19.1	18.8	1800	13.0	90	18.9	18.6	1830	11.7	90	18.4	18.5	1900	11.0	91	18.0	18.4	1930	10.6	93	17.6	18.1	2000	10.5	94	17.4	17.9																				
Time	Air T	RH	Ts 6	Bath T																																																																			
1745	13.7	89	19.1	18.8																																																																			
1800	13.0	90	18.9	18.6																																																																			
1830	11.7	90	18.4	18.5																																																																			
1900	11.0	91	18.0	18.4																																																																			
1930	10.6	93	17.6	18.1																																																																			
2000	10.5	94	17.4	17.9																																																																			

Date	Start	End	Time	CO <sub>2</sub> (l/min)	Flow (l/min)	Volume (cu m)	Trap	Wt Wet	Wt Dry	Water	Efficiency	Sample	<sup>2</sup> H	<sup>18</sup> O	Nitrogen (min, l/min)	Comments																																			
11:08:97	17:45	19:45	120	No	4.0	0.480	C	133.080	129.900	3.180		E 012	-101.5	-15.04	End 15 at 8	Concurrent with A 065 Good run, no condensation																																			
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>17:45</td><td>12.4</td><td>75</td><td>16.7</td><td>16.0</td></tr> <tr><td>18:00</td><td>11.5</td><td>78</td><td>16.6</td><td>16.0</td></tr> <tr><td>18:30</td><td>10.2</td><td>87</td><td>16.4</td><td>15.9</td></tr> <tr><td>19:00</td><td>9.5</td><td>88</td><td>16.2</td><td>15.6</td></tr> <tr><td>19:30</td><td>9.0</td><td>93</td><td>15.9</td><td>15.5</td></tr> <tr><td>19:45</td><td>8.7</td><td>94</td><td>15.8</td><td>15.5</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	17:45	12.4	75	16.7	16.0	18:00	11.5	78	16.6	16.0	18:30	10.2	87	16.4	15.9	19:00	9.5	88	16.2	15.6	19:30	9.0	93	15.9	15.5	19:45	8.7	94	15.8	15.5
Time	Air T	RH	Ts 6	Bath T																																															
17:45	12.4	75	16.7	16.0																																															
18:00	11.5	78	16.6	16.0																																															
18:30	10.2	87	16.4	15.9																																															
19:00	9.5	88	16.2	15.6																																															
19:30	9.0	93	15.9	15.5																																															
19:45	8.7	94	15.8	15.5																																															
18:08:97	17:45	19:45	120	No	4.0	0.480	C	133.350	129.900	3.450		E 013	-94.9	-14.64	End 15 at 8	Concurrent with A 067 Good run, no condensation																																			
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>17:45</td><td>13.6</td><td>69</td><td>18.0</td><td>16.8</td></tr> <tr><td>18:00</td><td>12.6</td><td>70</td><td>18.0</td><td>16.8</td></tr> <tr><td>18:30</td><td>11.8</td><td>78</td><td>17.8</td><td>16.6</td></tr> <tr><td>19:00</td><td>10.4</td><td>82</td><td>17.5</td><td>16.5</td></tr> <tr><td>19:30</td><td>9.5</td><td>84</td><td>17.3</td><td>16.4</td></tr> <tr><td>19:45</td><td>8.9</td><td>88</td><td>17.1</td><td>16.3</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	17:45	13.6	69	18.0	16.8	18:00	12.6	70	18.0	16.8	18:30	11.8	78	17.8	16.6	19:00	10.4	82	17.5	16.5	19:30	9.5	84	17.3	16.4	19:45	8.9	88	17.1	16.3
Time	Air T	RH	Ts 6	Bath T																																															
17:45	13.6	69	18.0	16.8																																															
18:00	12.6	70	18.0	16.8																																															
18:30	11.8	78	17.8	16.6																																															
19:00	10.4	82	17.5	16.5																																															
19:30	9.5	84	17.3	16.4																																															
19:45	8.9	88	17.1	16.3																																															
23:08:97	05:05	07:00	110	No	4.0	0.440	C	132.600	130.210	2.390		E 014	-106.5	-15.61	End 15 at 8	Concurrent with A 068 Slight East drift first 30 minutes																																			
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>05:05</td><td>9.8</td><td>77</td><td>13.7</td><td>15.4</td></tr> <tr><td>06:00</td><td>8.5</td><td>88</td><td>13.4</td><td>15.2</td></tr> <tr><td>06:30</td><td>7.5</td><td>88</td><td>13.3</td><td>15.0</td></tr> <tr><td>07:00</td><td>7.0</td><td>90</td><td>13.3</td><td>15.0</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	05:05	9.8	77	13.7	15.4	06:00	8.5	88	13.4	15.2	06:30	7.5	88	13.3	15.0	07:00	7.0	90	13.3	15.0										
Time	Air T	RH	Ts 6	Bath T																																															
05:05	9.8	77	13.7	15.4																																															
06:00	8.5	88	13.4	15.2																																															
06:30	7.5	88	13.3	15.0																																															
07:00	7.0	90	13.3	15.0																																															
30:08:97	18:10	20:00	110	No	4.0	0.440	C	133.480	130.210	3.270		E 015	-89.4	-13.85	End 15 at 8	Minor condensation in feed line between pans and trap Purged with nitrogen through trap Concurrent with A 070																																			
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>18:10</td><td>14.5</td><td>69</td><td>20.0</td><td>18.9</td></tr> <tr><td>18:30</td><td>13.8</td><td>72</td><td>19.8</td><td>18.6</td></tr> <tr><td>19:00</td><td>14.3</td><td>71</td><td>19.5</td><td>18.8</td></tr> <tr><td>19:30</td><td>14.2</td><td>74</td><td>19.2</td><td>18.5</td></tr> <tr><td>20:00</td><td>11.8</td><td>82</td><td>19.0</td><td>18.5</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	18:10	14.5	69	20.0	18.9	18:30	13.8	72	19.8	18.6	19:00	14.3	71	19.5	18.8	19:30	14.2	74	19.2	18.5	20:00	11.8	82	19.0	18.5					
Time	Air T	RH	Ts 6	Bath T																																															
18:10	14.5	69	20.0	18.9																																															
18:30	13.8	72	19.8	18.6																																															
19:00	14.3	71	19.5	18.8																																															
19:30	14.2	74	19.2	18.5																																															
20:00	11.8	82	19.0	18.5																																															
17:09:97	18:30	20:30	120	No	4.0	0.480	C	not measured				E 016	-100.9	-15.45		Concurrent with A 074																																			
<table border="1"> <thead> <tr> <th>Time</th> <th>Air T</th> <th>RH</th> <th>Ts 6</th> <th>Bath T</th> </tr> </thead> <tbody> <tr><td>18:30</td><td>17.5</td><td>83</td><td>22.9</td><td>22.0</td></tr> <tr><td>19:00</td><td>15.8</td><td>85</td><td>22.8</td><td>22.0</td></tr> <tr><td>19:30</td><td>14.6</td><td>87</td><td>22.6</td><td>22.0</td></tr> <tr><td>20:00</td><td>14.5</td><td>84</td><td>22.4</td><td>21.8</td></tr> <tr><td>20:30</td><td>14.6</td><td>88</td><td>22.3</td><td>21.6</td></tr> </tbody> </table>																	Time	Air T	RH	Ts 6	Bath T	18:30	17.5	83	22.9	22.0	19:00	15.8	85	22.8	22.0	19:30	14.6	87	22.6	22.0	20:00	14.5	84	22.4	21.8	20:30	14.6	88	22.3	21.6					
Time	Air T	RH	Ts 6	Bath T																																															
18:30	17.5	83	22.9	22.0																																															
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