

## APPENDICES

## Appendix 8.1 Thermal Balances

The thermal balances have a similar form as the mass balances, with the exception that they are balanced daily and by balance period. Thermal balances were completed for balance periods 20 to 50 inclusive (periods for which floating pan E was measured).

Balance	Start	End	Days	Balance	Start	End	Days
1996/97							
20	December 22	January 03	12	36	July 10	July 22	12
21	January 03	January 15	12	37	July 22	August 03	12
22	January 15	January 27	12	38	August 03	August 19	16
23	January 27	February 08	12	39	August 19	August 31	12
24	February 08	February 20	12	40	August 31	September 12	12
25	February 20	March 04	12	41	September 12	September 24	12
26	March 04	March 16	12	42	September 24	October 06	12
27	March 16	March 28	12	43	October 06	October 18	12
28	March 28	April 09	12	44	October 18	October 30	12
29	April 09	April 21	12	45	October 30	November 11	12
30	April 21	May 03	12	46	November 11	November 23	12
31	May 03	May 15	12	47	November 23	December 05	12
32	May 15	May 27	12	48	December 05	December 17	12
33	May 27	June 16	20	49	December 17	December 25	8
34	June 16	June 28	12	1997/98			
35	June 28	July 10	12	50	December 25	January 03	9

There is one sheet for each balance period. As in the mass balances a 'balance day' starts and ends at 08:00hr each morning.

## Notes to Accompany Thermal Balances

Each balance sheet includes evaporation by floating Class A pan (Pan E) and in the last column evaporation (E) computed using the thermal balance ignoring the sediment heat flux ( $Q_{se}$ ). These two figures (as balance period totals and daily averages) appear at the bottom of each balance sheet. The remainder of the balance components are calculated using floating pan E. A value for the sediment heat flux (as a daily average) was computed by setting E equal to Pan E. The sediment heat flux is also expressed as equivalent daily evaporation. This is the error in daily evaporation (in mm) if the thermal balance was used to determine evaporation without taking  $Q_{se}$  into account.

Five components ( $Q_{rn}$ ,  $Q_{sd}$ ,  $Q_{tu}$ ,  $Q_{dc}$  and  $Q_{rc}$ ) appear twice expressed as megajoules and watts  $m^{-2}$ . This was for computational convenience. For these components: Heat ( $Mj\ day^{-1}$ )/lake surface area yields flux in  $W\ m^{-2}$ .

$Q_e$ ,  $Q_h$  and  $Q_w$  are not directly measured but are determined as functions of the floating pan evaporation as follows:

$$Q_e = \rho E_{pan} L$$

$$Q_h = R Q_e$$

$$Q_w = \rho c E_{pan} (T_e - T_b)$$

Note: resultant for  $Q_e$  and  $Q_w$  must be multiplied by 11.574 to yield flux in  $W\ m^{-2}$

Formula for  $c$ : 0.00418  $Mj\ kg^{-1}\ ^\circ C$  or 4.180  $Mj\ m^{-3}$  (at  $20^\circ C$ )

Formula for  $L$ : 2.45378  $Mj\ kg^{-1}$  (at  $20^\circ C$ )

Formula for  $\rho$ : 998.24  $kg\ m^{-3}$  (at  $20^\circ C$ )

### Balance Sheet Key

Component	Units	Details
Day & Time		Date and time of the end of each 24 hour balance 'day'
Stage	m	Lake stage (metres above Australian Height Datum)
Area	$m^2$	Lake area from lake stage, refer Appendix 3.8
Volume	$m^3$	Lake volume from lake stage, refer Appendix 3.8
Pan E	mm	Daily evaporation as measured by floating Class A pan in East Lake
R		Bowen Ratio (daily average), dimensionless
$T_o$	$^\circ C$	Temperature of evaporated water taken to be mean surface water T
$T_m$	$^\circ C$	Mean mid level temperature of water column
$Q_{rn}$	Mj	Heat in rain falling directly on the lake
$Q_{sd}$	Mj	Heat in storm water
$Q_{tu}$	Mj	Heat in top up water
$Q_{dc}$	Mj	Heat in groundwater discharged to the lake
$Q_{rc}$	Mj	Heat in lake water recharged to the aquifer
$Q_a$	$W\ m^{-2}$	Incoming long wave radiation
$Q_{ar}$	$W\ m^{-2}$	Reflected long wave radiation
$Q_{bs}$	$W\ m^{-2}$	Long wave radiation emitted from the water
$Q_s$	$W\ m^{-2}$	Incoming short wave radiation
$Q_{sr}$	$W\ m^{-2}$	Reflected short wave radiation
$Q_{rn}$	$W\ m^{-2}$	Heat in rain falling directly on the lake
$Q_{sd}$	$W\ m^{-2}$	Heat in storm water
$Q_{tu}$	$W\ m^{-2}$	Heat in top up water
$Q_{dc}$	$W\ m^{-2}$	Heat in groundwater discharged to the lake
$Q_{rc}$	$W\ m^{-2}$	Heat in lake water recharged to the aquifer
$Q_{se}$	$W\ m^{-2}$	Heat conducted into and out of the lake sediments
$Q_x$	$W\ m^{-2}$	Change in heat energy stored in the lake ( $T_m$ at final lake volume)
$Q_e$	$W\ m^{-2}$	Energy used for evaporation
$Q_h$	$W\ m^{-2}$	Energy conducted from the water as sensible heat
$Q_w$	$W\ m^{-2}$	Energy advected from the water body via evaporated water
$\rho$	$kg\ m^{-3}$	Density of evaporated water
L	$Mj\ kg^{-1}$	Latent heat of vaporisation of water
c	$Mj\ kg^{-1}\ ^\circ C$	Specific heat of water
E	mm	Evaporation by thermal balance ignoring $Q_{se}$

## Appendix 8.2 Solar Instrument Specifications

### Middleton Instruments CN9 Short Wave Pyranometer

Also referred to as an 'pyrano-albedometer'. Sensitivity  $10 \mu\text{V W}^{-1} \text{m}^{-2}$ . Output was amplified 100x using a Carter-Scott (nil offset) 'Net Radiometer Amplifier'. Multi point calibration from 0 to 20.07 mV peak for 1.997 volts amplifier output.

### Eppley Model PIR Pyrgeometer

Also referred to as a precision infrared radiometer.

Sensitivity  $4 \mu\text{V W}^{-1} \text{m}^{-2}$   
Linearity  $\pm 1\%$  from 0 to  $700 \text{ Wm}^{-2}$   
Calibration blackbody reference

The pyrgeometer output was amplified 200x using an identical Carter-Scott amplifier. Top point of multi point calibration was 10.14 mV in for 2.04 volts amplifier output.

Instruments were set up, calibrated and maintained by Peter Mountford, WA Department of the Environment, Perth.

Middleton Instruments and Carter-Scott voltage amplifiers designed and manufactured by:

Carter-Scott Design  
16 Wilson Avenue  
Brunswick, Victoria  
3056  
[www.carterscott.com.au](http://www.carterscott.com.au)

Model PIR Pyrgeometer designed and manufactured by:

The Eppley Laboratory Inc.  
12 Sheffield Avenue  
PO Box 419  
Newport, Rhode Island USA  
02840  
[www.eppleylab.com](http://www.eppleylab.com)

**Balance Period No: 20**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qm m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qm	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm				
22/12/96	8:00	47355	13352	9.0		26.0	27.4	0	0	0	0	74132	318	9.6	433	394	21.9	0	0	0	0	17.2		9.7	172.0	24.9	7.3	997.134	2443	4.180	6.6				
23/12/96	8:00	3.342	49807	6.1	0.15	24.8	26.0	0	0	0	0	98026	310	9.3	435	393	21.9	0	0	0	0	23.6		-16.3	235.1	37.5	10.1	997.050	2442	4.180	6.7				
24/12/96	8:00	3.316	48161	8.3	0.16	25.1	26.3	0	0	0	0	80302	301	9.0	426	396	22.0	0	0	0	0	20.0		-38.9	197.3	36.0	7.9	997.447	2446	4.180	7.4				
25/12/96	8:00	3.293	46526	12789	7.0	0.18	23.5	24.7	0	0	0	64829	310	9.3	428	389	21.8	0	0	0	0	16.6		-9.9	164.8	21.9	6.7	997.358	2445	4.180	7.0				
26/12/96	8:00	3.274	45237	11917	5.8	0.13	23.9	25.0	0	0	0	56285	322	9.7	437	389	21.8	0	0	0	0	14.8		6.6	164.5	17.8	7.2	996.973	2441	4.180	6.8				
Balance 20A																																			
27/12/96	8:00	3.257	44150	11158	5.8	0.11	25.4	26.6	0	0	0	45674	328	9.8	440	389	21.8	0	0	52.4	0	12.3		-6.8	223.1	28.5	9.9	996.838	2440	4.179	8.8				
28/12/96	8:00	3.240	42963	10417	7.9	0.13	25.9	27.1	0	0	194397	0	326	9.8	435	384	21.6	0	0	29.8	0	18.7		11.4	208.7	23.3	9.0	997.054	2442	4.180	7.4				
29/12/96	8:00	3.268	44850	11647	7.4	0.11	25.1	26.2	0	0	115318	0	324	9.7	435	389	21.8	0	0	0	0	20.6		3.3	164.6	24.1	7.0	997.084	2442	4.180	6.6				
30/12/96	8:00	3.275	45302	11963	5.8	0.15	25.0	26.0	0	0	0	80456	324	9.7	435	389	21.8	0	0	0	0	20.6		3.3	164.6	24.1	7.0	997.084	2442	4.180	6.6				
Balance 20B																																			
31/12/96	8:00	3.250	43688	10850	6.5	0.07	26.1	27.2	0	0	0	91320	333	10.0	441	386	21.7	0	0	0	0	24.2		-5.9	182.0	13.2	8.1	996.791	2439	4.179	7.2				
1/1/97	8:00	3.229	42117	9949	7.4	-0.06	28.5	29.6	0	0	191371	0	387	11.6	455	370	21.2	0	0	52.6	0	19.3		11.0	207.8	-11.8	10.2	996.125	2434	4.179	10.4				
2/1/97	8:00	3.252	43822	10938	7.4	-0.07	29.9	30.9	0	0	0	113774	412	12.4	464	333	20.2	0	0	0	0	30.0		35.7	207.4	-14.6	10.7	995.691	2430	4.179	6.6				
3/1/97	8:00	3.230	42194	9991	7.1	0.03	31.1	32.3	0	0	0	84354	407	12.2	472	312	19.6	0	0	0	0	23.1		-3.6	198.3	5.3	10.6	995.326	2427	4.179	6.5				
Balance 20C																																			
Totals																																			
						ΔS																													
						Daily average																													
Balance Duration:	12 days					82.7																													
						Daily average																													

Balance Duration: 12 days  
 Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -14.6  
 All Q terms expressed in watts per square meter (W m<sup>-2</sup>)  
 Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.46

**Notes**  
 Qm, Qsd & Qto are total energy flux to lake in MegaJoules. Flux(11.574)/lake surface area yields flux in W m<sup>-2</sup>  
 Qe, Qh & Qw are not directly measured, but are determined as functions of the floating pan evaporation as follows:

Qe = ρE<sub>pan</sub>L where ρ is density of evaporated water in kg m<sup>-3</sup>  
 E<sub>pan</sub> is daily evaporation from floating pan in metres  
 Qh = RQe L is latent heat of vapourisation of water in MegaJoules kg<sup>-1</sup>  
 Qw = ρcE<sub>pan</sub>(T<sub>e</sub> - T<sub>b</sub>) c is specific heat of water in MegaJoules kg<sup>-1</sup> °C  
 T<sub>e</sub> is temperature of the evaporated water equals surface water temperature T<sub>0</sub>  
 T<sub>b</sub> is arbitrary base temperature of 0°C

Note: resultant for Qe and Qw must be multiplied by 11.574 to yield flux in W m<sup>-2</sup>

Formula for c: 20 0.00418 MegaJoules kg<sup>-1</sup> °C or 4.180 MJ m<sup>-3</sup>  
 Formula for L: 20 2.45378 MegaJoules kg<sup>-1</sup> or 2453.78 MJ m<sup>-3</sup>  
 Formula for ρ: 20 998.24kg m<sup>-3</sup>  
 T °C

Qx taken as average mid level T (at final vol) - equivalent value for previous day

**Balance Period No: 21**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Q <sub>m</sub> m joules	Q <sub>sd</sub> m joules	Q <sub>tu</sub> m joules	Q <sub>dc</sub> m joules	Q <sub>rc</sub> m joules	Q <sub>a</sub>	Q <sub>ar</sub>	Q <sub>bs</sub>	Q <sub>s</sub>	Q <sub>sr</sub>	Q <sub>m</sub>	Q <sub>sd</sub>	Q <sub>tu</sub>	Q <sub>dc</sub>	Q <sub>rc</sub>	Q <sub>se</sub>	Q <sub>x</sub>	Q <sub>e</sub>	Q <sub>h</sub>	Q <sub>w</sub>	ρ	L	c	E mm		
3/1/97	8:00	3.230	42194	9991	7.1	0.03	31.1	32.3	0	0	0	104887	383.0	11.5	469.0	352.2	20.7	0	0	0	71.8	0	30.2		-27.7	233.5	31.0	12.3	995.474	2429	4.179	9.1	
4/1/97	8:00	3.204	40187	8921	8.3	0.13	30.7	31.9	0	249189	0	114736	340.1	10.2	443.1	373.4	21.3	0	0	0	71.3	0	30.7		-18.4	211.3	23.4	9.6	996.708	2439	4.179	9.1	
5/1/97	8:00	3.243	43192	10546	7.5	0.11	26.4	27.4	0	266154	0	112562	329.3	9.9	434.2	382.7	21.6	0	0	0	0	0	28.4		13.3	170.5	13.8	7.3	997.103	2442	4.180	6.4	
6/1/97	8:00	3.284	45897	12373	6.0	0.08	24.9	25.8	0	0	0	123781	349.0	10.5	441.7	378.7	21.5	0	0	0	0	0	32.5		-6.2	176.1	-2.8	7.9	996.762	2439	4.179	7.8	
7/1/97	8:00	3.255	44021	11069	6.3	-0.02	26.2	27.2	0	0	0	103853	360.8	10.8	453.2	375.0	21.4	0	0	0	0	0	28.6		1.2	196.2	-0.5	9.5	996.233	2435	4.179	7.5	
8/1/97	8:00	3.228	42039	9907	7.0	0.00	28.1	29.1	0	0	0	106517	379.2	11.4	462.6	368.5	21.2	0	0	0	0	0	30.8		-5.3	184.1	8.7	9.4	995.779	2431	4.179	7.3	
9/1/97	8:00	3.201	39984	8800	6.6	0.05	29.7	30.7	0	0	0	88910	391.6	11.7	466.2	356.5	20.8	0	0	0	0	0	26.8		-13.6	157.7	24.6	8.2	995.601	2430	4.179	7.0	
10/1/97	8:00	3.178	38466	7898	5.6	0.16	30.2	31.5	0	0	0	90144	379.4	11.4	466.9	366.8	21.1	0	0	0	102.6	0	28.4		-23.9	186.9	31.6	9.8	995.573	2429	4.179	10.0	
11/1/97	8:00	3.153	36768	6958	6.7	0.17	30.3	31.6	0	325950	0	129028	391.1	11.7	455.0	352.2	20.7	0	0	0	83.4	0	36.5		35.6	228.3	27.6	11.1	996.148	2434	4.179	8.1	
12/1/97	8:00	3.214	40912	9326	8.1	0.12	28.4	29.5	0	294876	0	134540	341.6	10.2	438.4	355.9	20.8	0	0	0	0	0	35.2		3.1	199.7	25.4	8.8	996.916	2441	4.180	5.7	
13/1/97	8:00	3.258	44214	11202	7.1	0.13	25.6	26.8	0	0	0	115930	332.7	10.0	442.7	377.8	21.4	0	0	0	0	0	31.9		-13.0	173.1	16.3	7.8	996.723	2439	4.179	6.8	
14/1/97	8:00	3.229	42117	9949	6.2	0.09	26.3	27.6	0	0	0	126352	344.0	10.3	446.9	378.2	21.5	0	0	0	0	36.8		-15.8	152.5	14.9	7.1	996.525	2437	4.179	6.9		
15/1/97	8:00	3.198	39783	8681	5.4	0.10	27.1	28.4	0	0	0																						
Balance 21C																																	
Totals			ΔS	-1310	80.8																								Daily average				91.8
Balance Duration:	12 days		Daily average	6.7																									Daily average				7.7

Daily average sediment term Q<sub>se</sub> (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -29.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Q<sub>se</sub> expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.92

**Balance Period No: 22**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm				
15/1/97	8:00	3.198	39783	8681	5.4	0.10	27.1	28.4	0	0	0	0	117683	352.1	10.6	452.0	372.6	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16/1/97	8:00	3.168	37787	7517	5.8	0.06	27.9	29.2	0	0	0	0	106561	366.6	11.0	456.9	365.6	21.1	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0			
17/1/97	8:00	3.140	35818	6486	5.5	0.01	28.7	29.9	0	5264	0	0	93911	390.0	11.7	457.5	342.4	20.4	0	0	81.1	0	0	0	0	0	0	0	0	0	0	0	0		
18/1/97	8:00	3.114	33734	5582	6.8	0.06	28.8	29.9	0	236490	0	0	100128	360.9	10.8	441.2	334.5	20.2	0	0	72.6	0	0	0	0	0	0	0	0	0	0	0	0		
19/1/97	8:00	3.159	37177	7180	8.0	0.16	26.1	27.1	0	233310	0	0	112636	345.0	10.4	431.3	332.9	20.2	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Balance 22A																																			
20/1/97	8:00	3.193	39451	8483	9.4	0.12	24.4	25.4	862	0	0	0	94083	312.5	9.4	421.8	332.9	20.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21/1/97	8:00	3.164	37516	7366	4.7	0.13	22.7	23.7	0	0	0	0	91473	323.5	9.7	424.4	376.1	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22/1/97	8:00	3.134	35344	6272	5.6	0.01	23.2	24.3	0	0	0	0	71503	331.3	9.9	437.3	370.9	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23/1/97	8:00	3.108	33246	5381	7.4	0.07	25.4	26.5	0	0	0	0	68273	340.5	10.2	442.8	368.8	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance 22B																																			
24/1/97	8:00	3.080	30711	4484	10.4	0.02	26.3	27.4	0	101199	0	0	62665	366.0	11.0	448.5	359.1	20.9	0	0	83.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25/1/97	8:00	3.094	32057	4923	7.4	-0.01	27.3	28.3	0	232460	0	0	131388	331.5	9.9	427.1	296.9	19.2	0	0	73.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26/1/97	8:00	3.134	35344	6272	4.0	0.15	23.6	24.6	0	223893	0	0	107543	314.8	9.4	424.4	371.9	21.3	0	0	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27/1/97	8:00	3.172	38059	7669	5.2	0.08	23.2	24.2	0	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance 22C																																			
Totals			ΔS	-101.2	80.3																														88.1
			Daily average																																7.3

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -20.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.65

Daily average

**Balance Period No: 23**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
27/1/97 8:00	3.172	38059	7669	5.2	0.08	23.2	24.2	0	0	0	0	102066	332.3	10.0	435.2	369.2	21.2	0	0	0	0	32.9		-6.6	170.5	6.1	7.3	997.060	2442	4.180	6.9		
28/1/97 8:00	3.141	35893	6522	6.0	0.04	25.1	26.1	0	0	0	0	95442	381.5	11.4	448.6	330.4	20.1	0	0	0	0	33.0		-4.3	199.3	-5.5	9.3	996.449	2436	4.179	7.1		
29/1/97 8:00	3.111	33489	5481	7.1	-0.03	27.3	28.4	0	0	0	0	83936	360.2	10.8	442.2	291.6	19.0	0	0	0	0	31.3		-29.9	155.5	21.3	7.0	996.754	2439	4.179	5.3		
30/1/97 8:00	3.083	31008	4576	5.5	0.14	26.2	27.3	0	0	0	0	78213	339.1	10.2	440.2	360.0	20.9	0	0	0	0	32.6		-21.5	190.8	15.3	8.5	996.842	2440	4.179	6.8		
31/1/97 8:00	3.053	27801	3692	6.8	0.08	25.9	27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Balance 23A																																	
1/2/97 8:00	3.038	25951	3289	5.1	0.03	26.6	27.7	0	0	198805	0	31716	350.0	10.5	444.5	357.3	20.9	0	0	88.7	0	14.1		-4.0	143.7	5.0	6.6	996.646	2438	4.179	10.2		
2/2/97 8:00	3.081	30810	4515	6.9	-0.09	27.9	28.5	0	0	287050	0	108925	396.3	11.9	451.8	345.5	20.5	0	0	107.8	0	40.9		32.4	193.3	-17.0	9.2	996.303	2435	4.179	10.8		
3/2/97 8:00	3.143	36045	6594	3.4	-0.04	28.1	28.6	0	0	0	0	140006	429.8	12.9	453.2	265.8	18.3	0	0	0	0	45.0		50.9	96.6	-4.0	4.7	996.224	2435	4.179	4.1		
4/2/97 8:00	3.107	33165	5347	3.8	0.15	27.6	28.4	0	0	0	0	136475	429.5	12.9	450.4	213.4	16.4	0	0	0	0	47.6		-31.7	105.5	15.4	5.0	996.368	2436	4.179	4.4		
Balance 23B																																	
5/2/97 8:00	3.072	29929	4241	7.1	0.10	24.9	25.8	0	0	0	0	95432	347.4	10.4	434.3	333.1	20.2	0	0	0	0	36.9		-44.5	199.9	19.5	8.5	997.108	2442	4.180	6.9		
6/2/97 8:00	3.042	26423	3394	5.8	0.13	25.3	26.2	0	0	7408	0	75178	335.5	10.1	436.4	333.5	20.8	0	0	3.2	0	32.9		-13.5	164.5	21.0	7.1	997.009	2441	4.180	6.2		
7/2/97 8:00	3.021	23729	2866	5.8	0.07	27.2	28.1	0	0	0	0	55254	368.5	11.1	447.6	338.2	20.3	0	0	0	0	27.0		1.2	164.2	12.0	7.6	996.497	2437	4.179	6.3		
8/2/97 8:00	2.994	19195	2287	6.2	0.10	25.4	26.2	0	0	302669	0	49212	356.7	10.7	437.3	303.1	19.4	0	0	182.5	0	29.7		-13.2	173.3	18.0	7.5	996.978	2441	4.180	11.1		
Balance 23C																																	
Totals		ΔS	-5382	69.6																													86.0
Balance Duration:	12 days	Daily average																															7.2

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -42.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>) Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -1.37

**Balance Period No: 24**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
8/2/97	8:00	19195	2287	6.2	0.10	25.4	26.2	0	0	326644	0	89761	341.7	10.3	432.8	350.5	20.7	0	0	119.3	0	32.8		35.3	150.0	-2.4	6.3	997.172	2443	4.180	9.6	
9/2/97	8:00	31692	4796	5.3	-0.02	24.6	25.5	0	0	33076	0	156725	337.6	10.1	429.4	347.1	20.6	0	0	10.5	0	49.5		40.3	135.4	5.2	5.6	997.313	2444	4.180	4.8	
10/2/97	8:00	31630	6884	4.8	0.04	24.1	24.9	0	0	0	0	139064	342.3	10.3	441.6	345.8	20.5	0	0	0	0	47.0		-4.7	187.8	7.2	8.4	996.777	2439	4.179	5.7	
11/2/97	8:00	34218	5785	6.7	0.04	26.1	27.2	0	0	0	0	118832	342.6	10.3	447.7	343.9	20.5	0	0	0	0	44.4		-20.4	161.2	14.9	7.5	996.498	2437	4.179	5.7	
12/2/97	8:00	31008	4576	5.7	0.09	27.2	28.2	0	0	0	0	110402	346.0	10.4	449.0	343.8	20.5	0	0	0	0	46.8		-21.2	146.5	21.1	6.9	996.437	2436	4.179	5.5	
13/2/97	8:00	27302	3582	5.2	0.14	27.4	28.4	0	0	0	0	67527	342.6	10.3	443.9	339.4	20.4	0	0	17.9	0	32.7		-19.2	176.0	21.3	8.0	996.680	2438	4.179	6.4	
14/2/97	8:00	23869	2890	6.3	0.12	26.5	27.5	0	0	36959	0	56798	324.5	9.7	430.1	331.8	20.2	0	0	265.3	0	29.0		-16.7	147.1	13.8	6.1	997.291	2444	4.180	14.0	
15/2/97	8:00	22660	2704	5.2	0.09	24.1	25.0	0	0	519411	0	162129	334.3	10.0	428.0	341.2	20.4	0	0	85.8	0	50.6		84.7	126.6	15.6	5.2	997.375	2445	4.180	5.1	
16/2/97	8:00	37109	7143	4.5	0.12	23.8	24.6	0	0	275242	0	18266	356.9	10.7	433.3	321.3	19.9	0	0	0	0	5.0		59.9	173.5	15.9	7.3	997.141	2443	4.180	4.7	
17/2/97	8:00	42039	9907	6.2	0.09	24.7	25.4	0	0	0	0	180829	337.1	10.1	434.3	315.5	19.7	0	0	0	0	54.0		-28.8	129.3	13.9	5.5	997.099	2442	4.180	5.0	
18/2/97	8:00	3182	3826	8053	4.6	0.11	24.9	25.9	0	0	0	153288	365.8	11.0	444.1	323.1	19.9	0	0	0	0	49.5		-18.4	181.9	16.7	8.3	996.654	2438	4.179	5.7	
19/2/97	8:00	3140	35818	6486	6.5	0.09	26.6	27.6	0	0	0	148587	381.7	11.5	444.9	267.4	18.3	0.27	0	0	0	52.8		-31.0	81.8	13.5	3.7	996.615	2438	4.179	4.5	
20/2/97	8:00	3100	32578	5117	2.9	0.16	26.7	27.7	773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance 24C																																
Totals		ΔS	2830	63.8																												76.7
		Daily average																														6.4

Balance Duration: 12 days

5.3

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -34.3

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless -1.07

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>):



**Balance Period No: 25**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm			
20/2/97	8:00	32578	5117	2.9	0.16	26.7	27.7																											
21/2/97	8:00	29623	4152	4.7	0.12	24.3	25.1	424	1121	65262	0	87859	360.5	10.8	431.0	197.4	15.8	0.17	0.44	25.5	0	34.3		-40.3	132.1	16.5	5.5	997.241	2444	4.180	4.0			
22/2/97	8:00	3051	27555	3.9	0.08	25.6	26.4	0	15	238716	0	127784	350.8	10.5	438.4	307.8	19.5	0	0.01	100.3	0	53.7		-1.7	108.7	8.9	4.8	996.917	2441	4.180	7.5			
23/2/97	8:00	3110	33408	5.4	-0.03	25.5	26.3	0	118	150518	0	95164	374.0	11.2	438.0	314.3	19.7	0	0.04	52.1	0	33.0		38.8	76.4	-2.6	3.3	996.938	2441	4.180	7.0			
24/2/97	8:00	3128	34863	6.0	-0.06	22.6	23.2	2938	2752	0	0	106579	391.0	11.7	420.6	133.7	12.4	0.98	0.91	0	0	35.4		-12.5	69.5	-4.3	2.7	997.672	2448	4.181	2.1			
Balance 25A																																		
25/2/97	8:00	31878	4859	2.3	-0.10	27.0	27.7	0	430	433	0	130158	435.0	13.1	446.5	191.1	15.5	0	0.16	0.16	0	47.3		9.5	64.5	-6.3	3.0	996.539	2437	4.179	3.5			
26/2/97	8:00	3060	28623	3.890	1.3	-0.09	29.3	30.2	0	33	0	117218	442.7	13.3	460.4	190.7	15.5	0	0.01	0	0	47.4		-6.1	35.1	-3.0	1.8	995.878	2432	4.179	3.8			
27/2/97	8:00	3025	24290	2.962	4.7	0.00	31.2	31.8	0	0	0	106047	422.9	12.7	472.2	271.8	18.5	0	0	0	0	50.5		-10.9	131.2	0.1	7.1	995.302	2427	4.179	5.1			
28/2/97	8:00	2.983	17777	2.083	5.2	0.12	30.3	29.9	0	111655	0	95525	361.8	10.9	467.1	302.5	19.3	0	0	72.7	0	62.2		-17.8	146.0	17.7	7.6	995.578	2429	4.179	5.9			
Balance 25B																																		
1/3/97	8:00	3.040	26186	3.341	6.9	0.05	26.0	25.1	0	416585	0	0	330.3	9.9	441.3	302.3	19.3	0	0	184.1	0	0.0		-15.0	193.7	9.0	8.6	996.807	2440	4.179	11.7			
2/3/97	8:00	3.129	34943	6.097	2.5	0.12	25.9	24.4	0	417901	0	196539	342.7	10.3	440.2	301.0	19.3	0	0	138.4	0	65.1		51.2	70.5	8.3	3.1	996.837	2440	4.179	6.0			
3/3/97	8:00	3.191	39319	8.404	6.0	0.03	27.3	25.5	0	493565	0	239163	354.7	10.6	448.3	304.9	19.4	0	0	145.3	0	70.4		58.1	170.0	4.8	8.0	996.467	2437	4.179	6.5			
4/3/97	8:00	3.255	44021	11069	6.4	0.06	25.8	24.1	0	0	0	274340	325.7	9.8	439.2	316.0	19.7	0	0	0	0	72.1		28.9	179.1	11.6	7.9	996.878	2440	4.180	2.3			
Balance 25C																																		
Totals		ΔS	5952	49.0																												65.6		
Balance Duration:		12 days	Daily average		4.1																											Daily average		5.5

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -41.6

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -1.38

**Balance Period No: 26**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
4/3/97 8:00	3.255	44021	11069	6.4	0.06	25.8	24.1	0	0	0	0	0	212324	319.7	9.6	442.0	316.8	19.7	0	0	0	0	61.5		-30.0	132.1	14.5	5.9	996.745	2439	4.179	4.1	
5/3/97 8:00	3.201	39984	8800	4.7	0.11	26.3	24.7	0	0	0	0	0	171529	323.3	9.7	450.2	312.0	19.6	0	0	0	53.8		-20.5	143.6	16.8	6.8	996.378	2436	4.179	3.7		
6/3/97 8:00	3.155	36905	7032	5.1	0.12	27.6	26.3	0	0	0	0	0	140594	347.3	10.4	437.3	293.3	19.1	0.17	0	0	0	48.7		-47.6	176.3	25.1	7.7	996.974	2441	4.180	5.2	
7/3/97 8:00	3.110	33408	5447	6.3	0.14	25.4	24.7	498	0	0	0	0	117794	328.5	9.9	428.7	286.8	18.9	0	0	0	0	46.2		-35.9	106.0	10.7	4.3	997.343	2444	4.180	4.6	
8/3/97 8:00	3.068	29517	4122	3.8	0.10	23.9	23.5	0	0	0	0	0	70027	342.0	10.3	440.0	296.8	19.2	0	0	0	31.2		-3.7	164.4	11.5	7.3	996.847	2440	4.179	4.5		
9/3/97 8:00	3.038	25951	3289	5.8	0.07	25.9	25.3	0	0	0	0	0	97010	351.5	10.5	445.1	293.3	19.1	0	0	65.0	0	37.8		21.1	123.2	14.5	5.6	996.623	2438	4.179	5.4	
10/3/97 8:00	3.070	29727	4182	4.4	0.12	26.7	25.9	0	0	167029	0	0	89106	327.8	9.8	439.9	263.9	18.2	0	0	3.7	0	39.9		-22.2	158.6	25.4	7.0	996.860	2440	4.179	3.2	
11/3/97 8:00	3.037	25834	3263	5.6	0.16	25.8	25.2	0	0	8160	0	0	69903	303.7	9.1	427.6	300.3	19.3	0	0	0	0	39.9		-19.7	132.5	15.1	5.4	997.404	2445	4.180	3.9	
12/3/97 8:00	3.001	20280	2425	4.7	0.11	23.7	23.2	0	0	0	0	0	62281	306.3	9.2	425.6	301.4	19.3	0	0	0	46.9		-11.5	132.5	8.0	5.3	997.483	2446	4.180	3.8		
13/3/97 8:00	2.960	15365	1703	4.7	0.06	23.4	22.9	0	0	0	0	0	40512	316.3	9.5	425.2	256.6	18.0	0	0	0	36.3		-16.6	94.3	7.2	3.8	997.497	2446	4.180	3.2		
14/3/97 8:00	2.927	12908	1240	3.3	0.08	23.3	22.8	0	0	0	0	0	30071	345.0	10.4	434.2	281.9	18.8	0	0	0	31.8		-13.1	188.1	-2.6	8.0	997.112	2442	4.180	5.0		
15/3/97 8:00	2.896	10945	869	6.7	-0.01	24.9	24.2	0	0	0	0	0	24112	371.3	11.1	437.1	233.8	17.2	0	0	0	32.3		-13.1	163.4	4.2	7.1	996.986	2441	4.180	4.0		
16/3/97 8:00	2.867	8651	582	5.8	0.03	25.3	24.6	0	0	0	0	0																					
Balance 26A																																	
9/3/97 8:00	3.038	25951	3289	5.8	0.07	25.9	25.3	0	0	0	0	0	70027	342.0	10.3	440.0	296.8	19.2	0	0	0	31.2		-3.7	164.4	11.5	7.3	996.847	2440	4.179	4.5		
10/3/97 8:00	3.070	29727	4182	4.4	0.12	26.7	25.9	0	0	167029	0	0	97010	351.5	10.5	445.1	293.3	19.1	0	0	65.0	0	37.8		21.1	123.2	14.5	5.6	996.623	2438	4.179	5.4	
11/3/97 8:00	3.037	25834	3263	5.6	0.16	25.8	25.2	0	0	8160	0	0	89106	327.8	9.8	439.9	263.9	18.2	0	0	3.7	0	39.9		-22.2	158.6	25.4	7.0	996.860	2440	4.179	3.2	
12/3/97 8:00	3.001	20280	2425	4.7	0.11	23.7	23.2	0	0	0	0	0	69903	303.7	9.1	427.6	300.3	19.3	0	0	0	0	39.9		-19.7	132.5	15.1	5.4	997.404	2445	4.180	3.9	
Balance 26B																																	
13/3/97 8:00	2.960	15365	1703	4.7	0.06	23.4	22.9	0	0	0	0	0	62281	306.3	9.2	425.6	301.4	19.3	0	0	0	46.9		-11.5	132.5	8.0	5.3	997.483	2446	4.180	3.8		
14/3/97 8:00	2.927	12908	1240	3.3	0.08	23.3	22.8	0	0	0	0	0	40512	316.3	9.5	425.2	256.6	18.0	0	0	0	36.3		-16.6	94.3	7.2	3.8	997.497	2446	4.180	3.2		
15/3/97 8:00	2.896	10945	869	6.7	-0.01	24.9	24.2	0	0	0	0	0	30071	345.0	10.4	434.2	281.9	18.8	0	0	0	31.8		-13.1	188.1	-2.6	8.0	997.112	2442	4.180	5.0		
16/3/97 8:00	2.867	8651	582	5.8	0.03	25.3	24.6	0	0	0	0	0	24112	371.3	11.1	437.1	233.8	17.2	0	0	0	32.3		-13.1	163.4	4.2	7.1	996.986	2441	4.180	4.0		
Balance 26C																																	
Totals		ΔS	-10487	60.9																													50.5
Daily average																																	4.2

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 27.6

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 0.86

**Balance Period No: 27**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
16/3/97	8:00	2.867	8651	582	5.8	0.03	25.3	24.6																									
17/3/97	8:00	3.072	29929	4241	4.0	0.14	23.5	22.8	12599	35456	409231	0	125837	354.5	10.6	426.0	199.3	15.8	4.9	13.7	158.3	0	48.7	76.4	112.9	16.1	4.5	997.455	2446	4.180	4.6		
18/3/97	8:00	3.028	24697	3036	3.9	0.22	25.4	24.9	0	319	1835	0	119196	381.7	11.5	437.2	265.2	18.3	0	0.15	0.86	0	55.9	-8.5	108.7	23.8	4.7	996.968	2441	4.180	3.7		
19/3/97	8:00	2.990	18657	2211	4.8	0.26	25.4	25.1	0	0	0	0	65936	424.5	12.7	437.6	270.4	18.4	0	0	0	0	40.9	-4.1	135.1	34.6	5.9	996.959	2441	4.180	5.2		
20/3/97	8:00	2.955	14894	1627	3.9	0.19	24.8	24.3	0	0	0	0	46019	416.2	12.5	433.6	280.5	18.7	0	0	0	0	35.8	-15.3	108.8	20.8	4.6	997.134	2443	4.180	6.1		
Balance 27A																																	
21/3/97	8:00	2.915	12173	1089	3.3	0.19	25.5	25.0	0	0	0	0	52704	412.0	12.4	438.0	278.2	18.6	0	0	0	50.1	-20.6	94.0	17.6	4.1	996.944	2441	4.180	5.5			
22/3/97	8:00	3.088	31498	4733	6.0	0.05	24.7	24.1	0	0	429565	0	125029	403.3	12.1	433.5	274.9	18.5	0	0	157.8	0	45.9	67.2	170.5	7.8	7.2	997.147	2443	4.180	8.4		
23/3/97	8:00	3.133	35264	6237	3.5	0.04	23.8	23.4	0	0	352990	0	248423	386.7	11.6	427.9	265.7	18.3	0	0	115.9	0	81.5	25.2	100.1	3.8	4.1	997.376	2445	4.180	6.7		
24/3/97	8:00	3.191	39319	8404	4.5	0.07	23.9	23.5	0	0	201936	0	0	354.8	10.6	428.3	267.7	18.3	0	0	59.4	0	0.0	42.2	126.6	8.7	5.2	997.359	2445	4.180	5.8		
Balance 27B																																	
25/3/97	8:00	3.140	35818	6486	2.8	0.19	25.1	24.6	0	0	779	0	187607	394.8	11.8	435.5	265.4	18.3	0	0	0.25	0	60.6	-26.7	79.3	15.2	3.4	997.041	2442	4.180	4.6		
26/3/97	8:00	3.089	31597	4764	5.0	0.16	25.0	24.7	0	0	0	0	160468	403.6	12.1	435.1	253.6	17.9	0	0	0	58.8	-35.6	141.1	23.1	6.0	997.067	2442	4.180	5.0			
27/3/97	8:00	3.043	26544	3421	3.4	0.12	22.1	21.9	0	0	0	0	113680	380.5	11.4	418.2	150.3	13.4	0	0	0	49.6	-43.9	97.3	11.5	3.7	997.780	2449	4.181	2.5			
28/3/97	8:00	3.045	26794	3474	3.9	-0.01	21.5	21.4	0	0	109281	0	99526	369.4	11.1	414.9	231.3	17.1	0	0	47.2	0	43.0	-2.4	109.2	-1.5	4.0	997.913	2450	4.181	5.7		
Balance 27C																																	
Totals			ΔS	2892	49.1																												
Daily Average																																	
Balance Duration: 12 days																																	
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: -40.3																																	
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																	
Bowen Ratio R dimensionless																																	
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): -1.22																																	

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -40.3

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -1.22

**Balance Period No: 28**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
28/3/97	8:00	3.045	26794	3.9	-0.01	21.5	21.4	0	129873	52918	0	102435	404.2	12.1	402.0	111.2	10.9	14.2	47.2	19.2	0	37.2		5.9	72.9	6.4	2.4	998.394	2456	4.182	4.0		
29/3/97	8:00	3.092	31878	4.859	2.6	0.09	19.2	19.0	39188	477241	0	127760	371.3	11.1	394.6	17.6	2.3	32.3	68.7	112.7	0	30.2		110.4	74.3	18.2	2.3	998.646	2459	4.183	1.5		
30/3/97	8:00	3.329	49013	14509	2.6	0.25	17.9	17.5	136584	290737	0	126544	366.8	11.0	419.8	234.5	17.2	0	0.16	0	0	31.5		40.6	70.8	9.8	2.7	997.706	2448	4.181	2.4		
31/3/97	8:00	3.292	46458	12742	2.5	0.14	22.4	21.9	0	642	0	119820	372.5	11.2	429.2	243.8	17.6	0	0	0	0	31.5		-2.7	108.9	23.2	4.5	997.316	2444	4.180	3.7		
1/4/97	8:00	3.256	44085	11113	3.9	0.21	24.0	23.6	0	0	0	124888	372.0	11.2	414.7	133.8	12.4	0	0	3.5	0	34.6		-47.2	85.6	11.2	3.1	997.915	2450	4.181	2.5		
2/4/97	8:00	3.225	41803	9781	3.0	0.13	21.5	21.3	0	12637	0	103812	372.9	11.2	412.2	236.3	17.3	0	0	29.3	0	28.9		-5.7	109.3	5.1	3.9	998.007	2451	4.181	5.7		
3/4/97	8:00	3.223	41644	9697	3.9	0.05	21.1	20.9	0	105509	0	147308	379.4	11.4	421.6	202.2	16.0	0.59	1.00	34.6	0	41.2		15.5	87.6	-4.0	3.4	997.632	2447	4.180	4.0		
4/4/97	8:00	3.220	41400	9573	3.1	-0.05	22.7	22.4	2125	3563	0	129400	363.9	10.9	417.7	121.4	11.6	0.09	0.22	30.6	0	36.5		-10.5	79.5	8.9	3.0	997.789	2449	4.181	1.5		
5/4/97	8:00	3.215	40988	9367	2.8	0.11	22.1	21.7	307	776	0	127206	394.6	11.8	423.5	170.0	14.5	5.1	15.0	0	0	37.1		-1.6	52.2	5.9	2.1	997.552	2447	4.180	3.0		
6/4/97	8:00	3.197	39716	8641	1.8	0.11	23.1	22.7	17655	51455	0	83918	399.6	12.0	425.7	145.2	13.1	0.19	0.26	0	0	25.6		-15.2	117.5	4.4	4.7	997.461	2446	4.180	2.8		
7/4/97	8:00	3.170	37923	7593	4.2	0.04	23.5	23.1	637	838	0	96726	388.9	11.7	429.0	128.8	12.1	6.8	23.6	0	0	29.6		3.6	36.0	7.3	1.5	997.320	2444	4.180	1.8		
8/4/97	8:00	3.168	37787	7517	1.3	0.20	24.0	23.6	22202	76990	0	78546	376.2	11.3	443.9	230.6	17.1	0.0	0.0	0	0	25.2		3.3	132.0	19.9	6.0	996.662	2438	4.179	3.1		
9/4/97	8:00	3.143	36045	6594	4.7	0.15	26.6	26.0	0	0	0																						
Balance 28C																																	
Totals			ΔS	3120	36.3																												36.0
		Daily average																														3.0	

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 0.8

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 0.025

**Balance Period No: 29**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
9/4/97	8:00	3.143	36045	4.7	0.15	26.6	26.0	0	0	319095	0	158561	396.3	11.9	439.2	207.8	16.2	0	0	93.0	0	46.2	0	35.7	79.3	10.5	3.5	996.875	2440	4.180	4.5	
10/4/97	8:00	3.197	39716	8.641	2.8	0.13	25.8	25.3	0	0	0	118477	391.2	11.7	432.4	102.6	10.3	3.7	7.3	0	0	35.8	0	-28.3	47.7	9.8	2.0	997.174	2443	4.180	1.2	
11/4/97	8:00	3.176	38334	7.821	1.7	0.21	24.6	24.1	12338	24202	0	141803	382.0	11.5	427.4	188.7	15.4	0.44	0.15	68.9	0	40.6	0	17.4	52.7	14.6	2.1	997.394	2445	4.180	3.4	
12/4/97	8:00	3.208	40465	9.082	1.9	0.28	23.7	23.5	1540	531	0	118565	379.1	11.4	424.0	221.9	16.8	0.14	0	0	0	36.0	0	-31.7	91.1	19.8	3.6	997.537	2446	4.180	4.1	
13/4/97	8:00	3.173	38128	7.707	3.2	0.22	23.1	22.9	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance 29A																																
14/4/97	8:00	3.143	36045	4.2	0.12	22.7	22.5	0	0	0	0	86213	375.2	11.3	421.4	216.9	16.6	0	0	0	0	27.7	0	-24.7	117.9	14.3	4.6	997.642	2447	4.180	4.3	
15/4/97	8:00	3.130	35025	6.132	2.8	0.03	23.8	23.5	0	51808	0	89667	388.0	11.6	427.7	199.3	15.8	0	0	17.1	0	29.6	0	0.1	79.5	2.1	3.2	997.377	2445	4.180	4.0	
16/4/97	8:00	3.102	32749	5.183	3.3	0.17	25.0	24.7	0	0	0	82778	371.0	11.1	434.9	215.8	16.5	0	0	0	0	29.3	0	-9.7	94.1	16.2	4.0	997.069	2442	4.180	3.0	
17/4/97	8:00	3.151	36630	6.884	1.8	0.19	24.4	24.1	0	256294	0	115520	347.5	10.4	431.5	217.2	16.6	0	0	81.0	0	36.5	0	29.4	50.0	9.5	2.1	997.219	2443	4.180	3.5	
Balance 29B																																
18/4/97	8:00	3.135	35425	6.308	3.0	0.18	24.7	24.2	0	68256	0	125863	392.6	11.8	433.1	212.2	16.4	0	0	22.3	0	41.1	0	-10.2	85.3	15.4	3.6	997.146	2443	4.180	3.9	
19/4/97	8:00	3.177	38400	7.860	2.1	0.22	24.3	24.0	0	76	273471	151056	386.8	11.6	430.6	205.5	16.1	0	0.02	82.4	0	45.5	0	29.0	58.8	12.9	2.4	997.257	2444	4.180	4.0	
20/4/97	8:00	3.155	36905	7.032	2.6	0.26	24.0	23.6	0	342	54816	133446	396.5	11.9	428.9	207.8	16.2	0	0.11	17.2	0	41.9	0	-19.7	73.6	19.3	3.0	997.327	2444	4.180	3.9	
21/4/97	8:00	3.147	36349	6.738	3.4	0.27	22.8	22.5	26450	56487	0	110243	407.0	12.2	421.9	140.0	12.8	8.4	18.0	0	35.1	0	-16.2	94.7	25.1	3.7	997.620	2447	4.180	2.9		
Balance 29C																																
Totals		ΔS	144	32.8																									Daily average			42.6
Balance Duration:	12 days																															3.5

Daily average sediment term Qse (W m<sup>2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -28.3

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.82

**Balance Period No: 30**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
21/4/97	8:00	3.147	36349	3.4	0.27	22.8	22.5	0	0	0	0	76782	368.0	11.0	414.5	151.9	13.5	0	0	0	0	26.0		-28.2	47.2	15.7	1.7	997.926	2450	4.181	2.1	
22/4/97	8:00	3.120	34218	5785	1.7	0.33	21.4	21.2	0	0	0	40506	349.6	10.5	410.0	190.1	15.4	0	0	0	0	14.3		-17.6	65.0	18.6	2.3	998.098	2452	4.181	2.9	
23/4/97	8:00	3.103	32834	5215	2.3	0.29	20.7	20.3	0	0	0	80503	371.7	11.2	410.6	205.7	16.1	0	0	0	0	31.3		-17.0	53.2	11.8	1.9	998.075	2452	4.181	3.5	
24/4/97	8:00	3.070	29727	4182	1.9	0.22	20.8	20.4	0	0	0	83523	383.7	11.5	417.5	207.1	16.2	0	0	56.4	0	30.1		22.3	82.6	3.1	997.802	2449	4.181	4.2		
25/4/97	8:00	3.095	32145	4955	2.9	0.22	22.0	21.6	0	156511	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	
Balance 30A																																
26/4/97	8:00	3.068	29517	4122	2.3	0.03	23.5	22.9	0	0	0	74922	403.0	12.1	426.2	182.0	15.1	0	0	0	0	29.4		-6.7	64.8	2.0	2.6	997.441	2445	4.180	3.6	
27/4/97	8:00	3.045	26794	3474	2.3	0.12	23.1	22.6	419	0	0	57216	405.0	12.2	424.0	97.2	9.9	0.18	0	0	0	24.7		-12.8	64.6	7.6	2.6	997.535	2446	4.180	1.4	
28/4/97	8:00	3.024	24150	2938	1.7	0.12	20.3	19.8	0	0	0	42042	393.9	11.8	408.1	112.1	11.0	0	0	0	0	20.1		-25.0	47.3	5.5	1.6	998.169	2453	4.182	2.4	
29/4/97	8:00	3.105	33001	5281	4.0	0.02	19.6	19.1	0	244187	0	0	29210	388.8	11.7	404.2	121.5	11.6	0	85.6	0	10.2		31.4	112.4	2.8	3.8	998.308	2455	4.182	4.2	
Balance 30B																																
30/4/97	8:00	3.083	31008	4576	2.0	0.15	19.2	18.7	4908	10405	23262	0	83551	413.8	12.4	401.8	88.5	9.2	1.8	3.9	8.7	0	31.2		-14.8	56.8	8.6	1.9	998.396	2456	4.182	2.3
1/5/97	8:00	3.073	30028	4271	1.2	0.20	19.5	19.0	12369	31650	0	0	63526	415.1	12.5	403.2	76.0	8.2	4.8	12.2	0	24.5		-2.9	34.8	7.0	1.2	998.345	2455	4.182	1.8	
2/5/97	8:00	3.049	27302	3582	1.9	0.32	20.2	20.0	9	0	0	51330	388.9	11.7	407.7	164.6	14.2	0	0.0	0	0	21.8		-3.4	53.2	17.1	1.8	998.185	2453	4.182	2.6	
3/5/97	8:00	3.046	26918	3501	2.6	0.21	20.1	19.8	9698	25397	0	0	42762	384.4	11.5	406.7	152.3	13.5	4.2	10.9	0	18.4		-2.7	72.5	14.9	2.5	998.219	2454	4.182	3.0	
Balance 30C																																
Totals			ΔS	-3237	26.6																											34.0
Daily average																																
Balance Duration: 12 days																																
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: -21.1																																
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																
Bowen Ratio R dimensionless																																
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): -0.61																																

Daily average

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -21.1

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.61

**Balance Period No: 31**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
3/5/97	8:00	3.046	26918	3501	2.6	0.21	20.1	19.8	0	0	0	0	46354	351.7	10.6	403.9	161.3	14.0	0	3.4	0	0	22.1	-10.4	47.3	13.2	1.6	998.328	2455	4.182	2.0	
4/5/97	8:00	3.025	24290	2962	1.7	0.28	19.5	19.3	0	7187	0	0	26375	331.5	9.9	395.1	188.9	15.4	0	0	0	0	14.4	-11.6	83.0	27.9	2.5	998.636	2459	4.183	2.5	
5/5/97	8:00	3.006	21204	2528	2.9	0.34	17.9	17.7	0	0	0	0	32348	375.2	11.3	392.8	167.8	14.4	0	0	0	21.5	-5.3	47.4	4.2	1.4	998.716	2460	4.183	3.4		
6/5/97	8:00	2.980	17434	2031	1.7	0.09	17.5	17.2	0	0	0	0	9787	357.8	10.7	385.3	195.6	15.7	0	0	0	0	7.0	-10.4	83.2	20.9	2.3	998.953	2463	4.185	4.0	
7/5/97	8:00	2.968	16172	1829	2.9	0.25	16.1	15.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Balance 31A																																
8/5/97	8:00	3.080	30711	4484	4.6	0.14	16.9	16.6	0	0	325023	0	69522	361.3	10.8	389.4	191.9	15.5	0	0	122.5	0	26.2	31.0	130.6	17.9	3.8	998.823	2461	4.184	6.1	
9/5/97	8:00	3.048	27174	3555	3.4	0.09	16.0	15.8	0	0	0	0	55298	359.2	10.8	384.8	187.5	15.3	0	0	0	0	23.6	-17.4	98.0	8.8	2.7	998.966	2463	4.185	4.1	
10/5/97	8:00	3.019	23441	2819	2.1	-0.10	15.2	14.9	0	0	0	0	42906	358.3	10.8	380.2	164.4	14.2	0	0	0	21.2	-13.5	59.5	-5.7	1.5	999.101	2465	4.185	4.1		
11/5/97	8:00	2.996	19487	2325	2.1	-0.10	15.6	15.2	0	0	0	0	28765	368.3	11.0	382.1	118.0	11.4	0	0	0	17.1	1.0	59.4	-5.7	1.6	999.043	2464	4.185	2.4		
Balance 31B																																
12/5/97	8:00	2.975	16910	1945	0.8	0.07	14.8	14.5	921	1739	0	0	23975	406.5	12.2	378.4	46.5	5.4	0.63	1.2	0	0	16.4	-7.2	22.3	1.5	0.6	999.152	2466	4.186	1.6	
13/5/97	8:00	2.972	16596	1894	0.7	-0.04	16.0	15.6	2520	9624	0	0	13217	399.6	12.0	384.6	58.1	6.5	1.8	6.7	0	0	9.2	5.9	20.7	-0.8	0.6	998.968	2463	4.185	1.7	
14/5/97	8:00	3.084	31107	4607	2.5	0.17	20.1	19.7	0	0	323038	0	77019	396.3	11.9	406.7	143.1	13.0	0	0	120.2	0	28.7	54.9	71.0	2.4	998.219	2454	4.182	4.2		
15/5/97	8:00	3.050	27428	3609	2.2	0.14	20.7	20.4	0	0	0	0	77354	398.9	12.0	410.4	152.3	13.5	0	0	0	32.6	-11.4	62.0	8.7	2.2	998.078	2452	4.181	2.8		
Balance 31C																																
Totals		AS		108	27.6																									Daily average		39.0
Balance Duration:		12 days		2.3																										Daily average		39.0

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -30.4

Bowen Ratio R dimensionless: -0.95

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)  
 Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>):

**Balance Period No: 32**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
15/5/97 8:00	3.050	27428	3609	2.2	0.14	20.7	20.4	0	0	268870	0	100429	381.1	11.4	404.9	78.3	8.3	0	0	93.6	0	35.0		21.9	47.3	11.5	1.6	998.286	2454	4.182	2.0		
16/5/97 8:00	3.108	33246	5381	1.7	0.24	19.8	19.4	0	0	60107	0	90146	363.0	10.9	415.4	165.7	14.3	0	0	21.6	0	32.5		5.4	53.1	7.5	2.0	997.883	2450	4.181	2.2		
17/5/97 8:00	3.095	32145	4955	1.9	0.14	21.6	21.1	0	0	0	0	72822	435.6	13.1	413.0	67.5	7.4	2.6	3.3	0	0	28.2		-14.8	32.1	1.2	1.2	997.975	2451	4.181	2.0		
18/5/97 8:00	3.072	29929	4241	1.1	0.04	21.2	20.8	6807	8565	0	0	58434	391.8	11.8	400.1	82.3	8.7	3.2	9.6	0	0	23.7		-19.9	48.8	15.4	1.6	998.461	2456	4.182	1.6		
19/5/97 8:00	3.059	28507	3861	1.7	0.32	18.9	18.7	7982	23662	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Balance 32A																																	
20/5/97 8:00	3.038	25951	3289	0.9	0.17	19.0	18.9	0	0	0	0	43495	375.1	11.3	400.8	131.3	12.3	0	0	0	0	19.4		-6.7	26.6	4.5	0.9	998.434	2456	4.182	2.0		
21/5/97 8:00	3.118	34057	5717	2.3	0.34	19.1	19.1	0	0	333954	0	109011	362.2	10.9	401.2	168.9	14.4	0	0	113.5	0	37.0		39.4	65.1	22.2	2.1	998.422	2456	4.182	3.6		
22/5/97 8:00	3.088	31498	4733	2.9	0.27	17.5	17.5	0	0	0	0	65687	357.8	10.7	392.8	143.0	13.0	0	0	0	0	24.1		-27.7	83.0	22.0	2.5	998.711	2460	4.183	2.4		
23/5/97 8:00	3.065	29194	4034	3.1	-0.25	17.9	17.7	20981	61663	0	0	45033	358.0	10.7	394.7	126.3	12.0	8.3	24.4	0	0	17.9		-9.3	88.9	-22.1	2.7	998.645	2459	4.183	4.1		
Balance 32B																																	
24/5/97 8:00	3.081	30810	4515	1.3	0.14	17.2	17.1	9233	29957	0	0	74627	370.0	11.1	391.2	84.3	8.8	3.5	11.3	0	0	28.0		3.1	37.1	5.2	1.1	998.762	2460	4.184	0.8		
25/5/97 8:00	3.073	30028	4271	1.5	-0.14	17.2	17.0	10991	25648	0	0	44347	374.8	11.2	390.9	91.1	9.4	4.2	9.9	0	0	17.1		-4.2	42.6	-6.0	1.2	998.772	2460	4.184	2.2		
26/5/97 8:00	3.052	27679	3665	1.6	0.06	17.0	17.0	301	0	0	0	36116	363.7	10.9	390.1	134.9	12.5	0.13	0	0	0	15.1		-8.1	44.4	2.7	1.3	998.798	2461	4.184	2.5		
27/5/97 8:00	3.033	25349	3161	1.8	-0.05	17.3	17.2	759	1173	0	0	31192	355.5	10.7	391.2	121.5	11.6	0.35	0.54	0	0	14.2		-5.4	50.1	-2.5	1.5	998.760	2460	4.184	2.0		
Balance 32C																																	
Totals		ΔS	-448	21.8																													27.4
Daily average																																	2.3

Balance Duration: 12 days

Daily average

1.8

Daily average sediment term Qse (W m<sup>2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -14.8

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.47



**Balance Period No: 33**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
27/5/97	8:00	3.033	25349	3161	1.8	-0.05	17.3	17.2																									
28/5/97	8:00	3.128	34863	6062	1.4	0.26	18.5	18.5	94037	199407	0	0	84348	355.0	10.6	397.9	124.6	11.8	10.5	31.2	66.2	0	28.0	52.4	39.8	10.4	1.3	998.536	2457	4.183	2.4		
29/5/97	8:00	3.169	37855	7555	3.0	0.39	18.8	18.8	0	243940	0	0	92924	306.5	9.2	399.8	135.6	12.5	0	0	74.6	0	28.4	25.2	85.9	33.1	2.8	998.470	2457	4.182	1.0		
30/5/97	8:00	3.157	37041	7105	2.2	0.19	18.2	18.1	0	57453	0	0	75599	341.6	10.2	396.2	152.4	13.5	0	0	18.0	0	23.6	-13.0	62.2	11.9	1.9	998.596	2458	4.183	2.3		
31/5/97	8:00	3.220	41400	9573	3.5	0.02	15.4	15.2	66287	164438	0	0	72680	365.8	11.0	381.3	52.8	6.0	18.5	46.0	0	20.3	1.8	99.8	1.6	2.6	999.068	2465	4.185	2.1			
Balance 33A																																	
1/6/97	8:00	3.240	42963	10417	0.7	0.03	16.4	16.3	39736	64269	0	0	51707	362.7	10.9	386.8	104.7	10.4	10.7	17.3	0	13.9	21.4	20.2	0.5	0.6	998.900	2462	4.184	1.7			
2/6/97	8:00	3.305	47355	13352	1.7	0.14	16.7	16.6	82009	144715	0	0	41542	361.1	10.8	388.1	72.1	7.8	20.0	35.4	0	10.2	34.8	49.6	6.9	1.4	998.860	2462	4.184	1.1			
3/6/97	8:00	3.294	46594	12835	3.1	-0.01	16.6	16.5	8262	70774	0	0	108930	343.6	10.3	387.5	72.8	7.9	2.1	17.6	0	27.1	-6.4	88.7	-0.7	2.5	998.881	2462	4.184	0.3			
4/6/97	8:00	3.292	46458	12742	0.2	-0.07	15.5	15.3	28625	43240	0	0	72836	325.0	9.8	381.6	82.5	8.7	7.1	10.8	0	18.1	-16.2	5.1	-0.3	0.1	999.060	2465	4.185	0.9			
Balance 33B																																	
5/6/97	8:00	3.282	45762	12281	1.9	-0.05	15.2	15.1	7739	22852	0	8505	63073	353.1	10.6	380.1	110.0	10.8	2.0	5.8	0	2.2	-7.9	55.3	-2.6	1.4	999.102	2465	4.185	2.3			
6/6/97	8:00	3.271	45041	11782	0.0	-0.03	16.0	16.0	6815	13579	0	7581	59572	357.8	10.7	384.2	95.8	9.8	1.8	3.5	0	1.9	6.4	0.4	0.0	0.0	0.0	998.979	2463	4.185	1.2		
7/6/97	8:00	3.257	44150	11158	0.2	0.10	16.6	16.7	3416	2966	0	6565	53848	368.0	11.0	387.5	80.9	8.6	0.9	0.8	0	1.7	14.1	1.7	5.0	0.5	0.1	998.878	2462	4.184	0.9		
8/6/97	8:00	3.265	44659	11513	2.0	0.08	18.0	18.1	28386	49876	0	7143	63694	363.4	10.9	395.3	132.3	12.3	7.4	12.9	0	1.9	22.2	56.1	4.3	1.7	998.623	2458	4.183	1.9			
Balance 33C																																	
9/6/97	8:00	3.292	46458	12742	0.9	0.11	16.5	16.5	38852	94671	0	447	43697	346.6	10.4	387.5	43.0	5.0	9.7	23.6	0	0.1	-6.7	25.5	2.9	0.7	998.883	2462	4.184	0.5			
10/6/97	8:00	3.277	45432	12053	2.6	0.28	16.0	16.3	0	0	0	409	39486	325.7	9.8	384.6	130.3	12.2	0	0	0	0.1	-9.8	74.3	21.1	2.0	998.968	2463	4.185	1.3			
11/6/97	8:00	3.278	45498	12099	0.5	0.22	16.3	16.3	17487	33106	0	549	52991	363.8	10.9	386.0	109.8	10.8	4.4	8.4	0	0.1	0.7	13.2	2.9	0.4	998.924	2463	4.184	1.8			
12/6/97	8:00	3.280	45629	12190	0.3	0.37	16.1	16.4	17230	32711	0	441	42649	350.5	10.5	385.0	99.8	10.1	4.4	8.3	0	0.1	1.0	8.5	3.1	0.2	998.958	2463	4.185	1.1			
Balance 33D																																	
13/6/97	8:00	3.268	44850	11647	1.4	0.22	17.0	17.3	0	399	0	7984	43606	361.1	10.8	389.7	129.2	12.1	0	0.10	0	11.3	5.7	40.9	9.0	1.2	998.808	2461	4.184	1.8			
14/6/97	8:00	3.286	46035	12465	1.8	0.20	17.2	17.4	0	142655	11976	0	65814	366.8	11.0	390.8	80.4	8.5	0	0	35.9	3.0	16.5	10.7	50.4	10.3	1.5	998.774	2460	4.184	1.4		
15/6/97	8:00	3.309	47651	13542	2.4	0.35	16.3	16.7	0	178210	13949	0	73466	326.8	9.8	386.1	150.7	13.4	0	0	43.3	3.4	17.8	1.3	68.3	24.1	1.9	998.925	2463	4.184	2.4		
16/6/97	8:00	3.290	46315	12650	1.9	0.13	15.5	15.8	0	0	0	12587	62919	307.8	9.2	382.1	150.6	13.4	0	0	3.1	15.7	-20.1	53.5	7.0	1.4	999.045	2464	4.185	1.9			
Balance 33E																																	
Totals			ΔS	9489	31.7																												
Daily average																																	
Daily average																																	

Balance Duration: 20 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 30.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 1.5

0.067

**Balance Period No: 34**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
16/6/97	8:00	3.290	46315	12650	1.9	0.13	15.5	15.8	0	0	0	0	49543	357.9	10.7	383.9	145.1	13.1	0	0	0	12.7		-2.9	50.5	5.3	1.4	998.991	2463	4.185	2.6		
17/6/97	8:00	3.273	45172	11872	1.8	0.11	15.9	16.2	0	0	0	0	39297	368.6	11.1	386.0	144.4	13.1	0	0	0	10.3		-2.3	83.1	-7.4	2.3	998.928	2463	4.184	3.5		
18/6/97	8:00	3.258	44214	11202	2.9	-0.09	16.3	16.6	0	0	0	0	41033	392.2	11.8	385.1	92.9	9.5	0.9	0.8	0	10.9		-8.8	37.0	-1.4	1.0	998.953	2463	4.185	2.8		
19/6/97	8:00	3.246	43409	10676	1.3	-0.04	16.1	16.4	3562	3016	0	0	36999	384.5	11.5	380.5	42.5	5.0	1.3	1.3	0	10.1		-15.2	54.5	-5.5	1.4	999.091	2465	4.185	1.4		
20/6/97	8:00	3.235	42577	10203	1.9	-0.10	15.3	15.5	4820	4657	0	0																					
Balance 34A																																	
21/6/97	8:00	3.225	41803	9781	1.0	-0.02	15.8	16.2	5288	6578	0	0	37735	371.8	11.2	383.4	115.0	11.2	1.5	1.8	0	10.4		3.2	27.8	-0.6	0.7	999.006	2464	4.185	2.5		
22/6/97	8:00	3.211	40683	9204	1.0	0.23	16.4	16.8	0	0	0	0	38270	329.5	9.9	386.7	133.2	12.4	0	0	0	10.9		1.4	29.4	6.6	0.8	998.905	2462	4.184	1.2		
23/6/97	8:00	3.205	40254	8961	1.4	0.18	16.8	17.2	5493	7199	0	0	27417	382.3	11.5	388.9	112.8	11.0	1.6	2.1	0	7.9		1.0	39.2	7.0	1.1	998.835	2461	4.184	2.3		
24/6/97	8:00	3.192	39385	8443	0.8	0.32	16.8	17.3	0	0	0	0	35197	360.3	10.8	388.7	116.5	11.3	0	0	0	10.3		-5.8	23.7	7.5	0.7	998.842	2461	4.184	1.6		
Balance 34B																																	
25/6/97	8:00	3.182	38726	8053	1.3	0.13	15.8	16.1	454	98	0	5087	27383	382.9	11.5	383.2	92.1	9.5	0.14	0.03	0	8.2		-17.5	38.4	5.1	1.0	999.012	2464	4.185	2.5		
26/6/97	8:00	3.171	37991	7631	1.1	0.18	16.7	17.1	0	0	0	5557	31766	364.4	10.9	388.2	144.4	13.1	0	0	0	9.7		4.2	32.6	5.9	0.9	998.858	2462	4.184	2.4		
27/6/97	8:00	3.162	37381	7292	1.1	0.22	16.5	16.9	0	0	0	4352	24540	347.8	10.4	387.1	142.0	12.9	0	0	0	7.6		-7.0	32.7	7.3	0.9	998.895	2462	4.184	2.2		
28/6/97	8:00	3.155	36905	7032	1.7	0.15	16.6	17.0	0	8098	4308	0	24430	334.3	10.0	387.9	117.4	11.4	0	0	2.5	7.7		-2.8	47.5	7.1	1.3	998.865	2462	4.184	1.2		
Balance 34C																																	
Totals			ΔS	-5618	17.4																												
Daily average																																	
Balance Duration: 12 days																																	
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: -23.6																																	
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																	
Bowen Ratio R dimensionless																																	
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): -0.74																																	

Daily average

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -23.6

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.74

**Balance Period No: 35**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qsd	Qx	Qe	Qh	Qw	ρ	L	c	E mm					
28/6/97	8:00	36905	7032	1.7	0.15	16.6	17.0						29226	378.9	11.4	386.7	86.8	9.1	0	0	2.1	9.3		-7.4	20.8	4.5	0.6	998.903	2462	4.184	1.7					
29/6/97	8:00	36197	6666	0.7	0.22	16.4	16.7	0	0	0	6529	22370	346.4	10.4	385.6	139.0	12.8	0	0	0	1.6	7.3		-4.2	50.5	17.2	1.4	998.942	2463	4.184	1.9					
30/6/97	8:00	35507	6343	1.8	0.34	16.2	16.8	0	0	0	4988	17759	347.6	10.4	372.4	154.1	13.6	0	0	0	1.6	5.9		-26.0	59.6	17.7	1.4	999.317	2469	4.187	3.4					
1/7/97	8:00	34783	6027	2.1	0.30	13.7	14.2	0	0	0	4680	19762	355.3	10.7	368.2	154.4	13.6	0	0	0	1.9	6.7		-13.0	71.5	-4.6	1.6	999.419	2471	4.188	4.6					
2/7/97	8:00	33896	5649	2.5	-0.06	12.9	13.1	0	0	0	5624																									
Balance 35A																																				
3/7/97	8:00	34863	6062	2.6	-0.15	11.7	11.7	11316	31422	0	0	21005	373.7	11.2	362.2	95.9	9.8	3.8	10.4	0	0	7.0		-7.1	73.7	-11.2	1.5	999.556	2473	4.190	4.1					
4/7/97	8:00	34463	5888	2.1	0.11	12.9	13.0	0	410	0	0	6416	340.1	10.2	368.3	91.1	9.4	0	0.14	0	0	2.2		9.1	59.6	6.4	1.3	999.416	2471	4.188	1.0					
5/7/97	8:00	33896	5649	1.6	-0.23	15.4	15.6	643	882	0	0	14824	376.3	11.3	381.3	122.4	11.7	0.22	0.30	0	0	5.1		17.8	44.2	-10.2	1.2	999.066	2465	4.185	3.2					
6/7/97	8:00	37244	7217	1.5	0.13	15.7	15.9	38168	89797	0	0	30915	381.5	11.4	382.9	68.5	7.5	11.9	27.9	0	0	9.6		23.1	43.9	5.5	1.2	999.021	2464	4.185	1.7					
Balance 35B																																				
7/7/97	8:00	38986	8208	2.4	0.08	15.2	15.5	18350	54976	0	91	16165	357.2	10.7	380.4	93.0	9.6	5.4	16.3	0	0	4.8		9.1	68.6	5.5	1.8	999.095	2465	4.185	1.8					
8/7/97	8:00	38661	8014	0.5	0.51	13.0	13.5	3228	3273	0	113	17530	326.3	9.8	368.6	121.2	11.6	1.0	1.0	0	0	5.2		-22.5	15.4	7.8	0.3	999.410	2470	4.188	1.8					
9/7/97	8:00	40988	9367	1.2	0.44	12.5	13.0	19347	52780	0	124	18597	327.5	9.8	366.1	146.2	13.2	5.5	14.9	0	0	5.3		8.2	34.3	14.9	0.7	999.469	2472	4.189	2.2					
10/7/97	8:00	40394	9041	2.2	0.45	12.4	13.1	0	0	0	86	12985	299.9	9.0	365.8	150.3	13.4	0	0	0	0	3.7		-1.9	62.6	28.0	1.3	999.477	2472	4.189	1.4					
Balance 35C																																				
Totals		ΔS		2009	21.2																											Daily average		28.6		
Balance Duration:		12 days																																Daily average		2.4

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -20.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.62

**Balance Period No: 36**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm			
10/7/97	8:00	3.207	40394	2.2	0.45	12.4	13.1	0	0	0	2094	16177	320.0	9.6	363.6	157.8	13.8	0	0	0	0.6	4.7		-7.4	29.8	15.4	0.6	999.526	2473	4.189	2.1			
11/7/97	8:00	3.199	39850	1.0	0.52	12.0	12.7	0	0	0	1936	14236	321.8	9.7	361.0	161.3	14.0	0	0	0	0.6	4.2		-9.8	71.6	29.0	1.4	999.582	2474	4.190	2.6			
12/7/97	8:00	3.190	39251	8365	0.41	11.5	12.1	0	0	0	2622	18182	365.6	11.0	360.4	58.6	6.6	4.3	7.3	0	0.8	5.3		-3.9	15.5	-4.3	0.3	999.593	2474	4.190	2.7			
13/7/97	8:00	3.199	39850	8721	0.5	-0.28	11.4	14.962	25123	0	1793	13991	333.3	10.0	367.0	25.2	3.1	9.5	22.1	0	0.5	3.8		29.8	16.2	0.3	999.448	2471	4.188	-0.6				
14/7/97	8:00	3.240	42963	10417	0.6	0.35	12.6	12.8	82002	0	750	16595	302.0	9.1	365.4	155.8	13.7	0	0	0	0.2	4.5		-2.1	56.7	25.6	1.2	999.485	2472	4.189	1.6			
15/7/97	8:00	3.231	42271	10033	2.0	0.45	12.3	12.9	0	0	473	10088	289.6	8.7	363.5	159.8	13.9	0	0	0	0.1	2.8		-7.6	71.6	16.8	1.5	999.526	2473	4.189	1.9			
16/7/97	8:00	3.224	41724	9739	2.5	0.23	12.0	12.4	0	0	655	13841	314.5	9.4	362.7	164.8	14.2	0	0	0	0.2	3.9		-4.0	47.7	16.5	1.0	999.545	2473	4.189	2.4			
17/7/97	8:00	3.216	41066	9408	1.7	0.35	11.8	12.3	0	0	523	11120	315.8	9.5	363.3	165.8	14.3	0	0	0	0.1	3.2		-1.5	53.7	18.7	1.1	999.533	2473	4.189	2.4			
18/7/97	8:00	3.209	40536	9122	1.9	0.35	11.9	12.4	0	0	1447	16975	326.7	9.8	364.7	162.1	14.1	0	0	0	0.4	4.9		-0.8	41.8	14.0	0.9	999.502	2472	4.189	2.5			
19/7/97	8:00	3.200	39917	8760	1.5	0.33	12.2	12.6	0	0	564	6787	328.5	9.9	367.1	166.0	14.3	0	0	0	0.2	2.0		2.0	29.8	9.1	0.6	999.446	2471	4.188	2.6			
20/7/97	8:00	3.196	39649	8601	1.0	0.30	12.7	13.0	0	0	1170	14463	318.6	9.6	368.8	169.7	14.5	0	0	0	0.3	4.3		0.3	50.7	16.1	1.1	999.406	2470	4.188	2.4			
21/7/97	8:00	3.188	39117	8286	1.8	0.32	13.0	13.3	0	0	545	6594	297.0	8.9	367.0	172.8	14.6	0	0	0	0.2	2.0		-4.8	59.6	10.0	1.3	999.448	2471	4.188	2.4			
22/7/97	8:00	3.183	38791	8091	2.1	0.17	12.6	13.1	0	0																								
Balance 36A																																		
Balance 36B																																		
Balance 36C																																		
Totals			ΔS	-950	19.0																												25.0	
Balance Duration:	12 days		Daily average																														Daily average	

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -18.0

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.50

**Balance Period No: 37**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
22/7/97	8:00	3.183	38791	2.1	0.17	12.6	13.1	0	0	0	768	7733	340.1	10.2	370.8	170.9	14.5	0	0	0	0.2	2.3	3.9	80.4	6.3	1.8	999.354	2469	4.187	3.5		
23/7/97	8:00	3.177	38400	2.8	0.08	13.4	13.7	0	0	0	1505	15977	368.5	11.1	375.8	130.1	12.2	5.3	8.2	0	0.4	4.7	12.9	73.5	-0.4	1.8	999.222	2467	4.186	3.3		
24/7/97	8:00	3.189	39183	8325	-0.01	14.4	14.5	17874	27643	0	938	9791	347.2	10.4	374.6	71.0	7.7	5.7	12.3	0	0.3	2.8	6.5	62.8	5.7	1.5	999.257	2468	4.187	1.1		
25/7/97	8:00	3.210	40608	9163	2.2	0.09	14.1	20142	43289	0	1177	13063	342.3	10.3	378.7	119.5	11.5	1.0	0.9	0	0.3	3.7	8.5	39.7	5.6	1.0	999.141	2466	4.186	1.5		
26/7/97	8:00	3.207	40394	9041	1.4	0.14	14.9	3487	3185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Balance 37A																																
27/7/97	8:00	3.216	41066	9408	1.1	-0.03	15.4	14973	29979	0	4647	26606	320.3	9.6	381.3	117.5	11.4	4.2	8.4	0	1.3	7.5	8.0	31.3	-1.0	0.8	999.069	2465	4.185	1.2		
28/7/97	8:00	3.211	40683	9204	2.2	0.34	16.0	0	144	0	1523	9200	287.0	8.6	384.5	126.8	12.0	0	0	0	0.4	2.6	7.2	62.4	21.0	1.7	998.973	2463	4.185	0.0		
29/7/97	8:00	3.207	40394	9041	2.2	0.24	16.8	1983	3686	0	2109	13257	321.3	9.6	388.7	160.0	14.0	0.6	1.1	0	0.6	3.8	5.3	61.7	14.8	1.8	998.841	2461	4.184	1.7		
30/7/97	8:00	3.200	39917	8760	1.8	0.27	17.4	0	0	0	2734	17756	296.7	8.9	392.0	154.0	13.6	0	0	0	0.8	5.1	2.4	50.4	13.7	1.5	998.737	2460	4.183	0.8		
Balance 37B																																
31/7/97	8:00	3.195	39583	8562	1.6	0.23	17.3	0	0	0	2746	12391	309.8	9.3	391.3	144.8	13.1	0	0	0	0.8	3.6	-3.6	44.5	10.2	1.3	998.761	2460	4.184	1.2		
1/8/97	8:00	3.190	39251	8365	2.3	0.24	17.9	0	0	0	2160	10093	292.0	8.8	394.6	169.5	14.5	0	0	0	0.6	3.0	3.7	65.2	15.6	2.0	998.648	2459	4.183	1.0		
2/8/97	8:00	3.183	38791	8091	2.9	0.37	17.2	0	0	0	3231	14632	294.1	8.8	391.1	176.8	14.8	0	0	0	1.0	4.4	-9.6	83.1	30.7	2.4	998.770	2460	4.184	1.6		
3/8/97	8:00	3.179	38531	7937	0.7	0.29	16.5	0	0	0	2544	11037	317.7	9.5	387.4	166.8	14.3	0	0	0	0.8	3.3	-9.6	20.8	6.0	0.6	998.885	2462	4.184	2.1		
Balance 37C																																
Totals			ΔS	-154	23.7																											19.0
Daily average																																
Balance Duration: 12 days																																
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: 13.5																																
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																
Bowen Ratio R dimensionless																																
Qa and Qar data in red are estimates using method of Koberg 1964																																
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): 0.39																																

**Balance Period No: 38**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
3/8/97	8:00	38531	7937	0.7	0.29	16.5	16.8						0	328.1	9.8	379.9	52.5	6.0	15.0	17.8	0	0.0		5.3	36.1	-0.4	0.9	999.108	2465	4.185	0.4	
4/8/97	8:00	3233	42424	1.3	-0.01	15.1	15.0	55102	65291	0	13646	49982	316.0	9.5	391.2	144.2	13.1	4.7	18.3	0	3.6	13.3		34.9	80.3	5.6	2.4	998.762	2460	4.184	0.8	
5/8/97	8:00	3248	43550	1.8	0.07	17.3	17.4	17595	68788	0	4704	15729	327.1	9.8	383.4	111.0	10.9	1.4	4.0	0	1.2	4.2		-17.6	53.4	6.8	1.4	999.005	2464	4.185	1.6	
6/8/97	8:00	3249	43619	1.9	0.13	15.8	15.9	5439	14940	0	3371	11972	323.1	9.7	388.2	141.8	12.9	1.0	2.5	0	0.9	3.2		11.3	57.5	10.8	1.6	998.856	2462	4.184	1.3	
7/8/97	8:00	3248	43550	2.0	0.19	16.7	16.8	3838	9301	0																						
Balance 38A																																
8/8/97	8:00	3245	43337	1.4	0.35	17.7	17.8	4430	8036	6522	11292	34983	322.5	9.7	393.4	120.2	11.5	1.2	2.1	1.7	3.0	9.3		9.8	39.1	13.6	1.2	998.690	2459	4.183	0.4	
9/8/97	8:00	3250	43688	1.8	0.16	16.8	16.9	12835	30921	0	13470	39534	313.8	9.4	388.9	110.8	10.9	3.4	8.2	0	3.6	10.5		-8.7	67.3	11.0	1.9	998.836	2461	4.184	0.8	
10/8/97	8:00	3316	48161	1.8	0.42	14.6	14.7	46671	120912	0	13625	34934	271.7	8.2	377.0	68.8	7.5	11.2	29.1	0	3.3	8.4		2.7	42.0	17.6	1.0	999.190	2467	4.186	-0.5	
11/8/97	8:00	3310	47725	1.9	0.47	14.7	14.9	0	1573	0	7186	18618	255.1	7.7	377.6	174.9	14.7	0	0.4	0	1.7	4.5		-0.3	53.5	25.3	1.3	999.174	2466	4.186	0.7	
Balance 38B																																
12/8/97	8:00	3303	47214	1.5	0.39	14.5	14.8	0	0	0	17582	29747	255.0	7.6	376.8	188.6	15.4	0	0	0	4.3	7.3		-4.3	41.7	16.1	1.0	999.196	2467	4.186	1.1	
13/8/97	8:00	3298	46866	1.3	0.32	15.1	15.5	0	0	0	8458	14991	264.8	7.9	379.6	196.3	15.7	0	0	0	2.1	3.7		7.4	65.4	21.1	1.7	999.119	2465	4.186	1.3	
14/8/97	8:00	3293	46526	1.2	0.04	16.1	16.2	0	0	0	5794	10722	330.2	9.9	385.0	198.5	15.8	0	0	0	1.4	2.7		6.9	89.1	3.4	2.4	998.956	2463	4.185	3.6	
15/8/97	8:00	3343	49866	1.2	0.05	17.5	17.4	56065	121208	0	4395	8777	334.2	10.0	392.6	140.1	12.8	13.0	28.1	0	1.0	2.0		42.3	93.8	4.5	2.8	998.714	2460	4.183	1.8	
Balance 38C																																
16/8/97	8:00	3347	50104	2.1	0.30	16.9	17.3	14140	28514	0	11060	35775	267.5	8.0	389.4	155.4	13.7	3.3	6.6	0	2.6	8.3		-0.1	59.3	17.9	1.7	998.820	2461	4.184	0.4	
17/8/97	8:00	3340	49688	2.2	0.36	16.3	16.8	0	1661	0	7964	25059	241.4	7.2	386.2	188.3	15.4	0	0.4	0	1.9	5.8		-10.6	62.4	22.7	1.7	998.922	2462	4.184	0.7	
18/8/97	8:00	3335	49387	2.7	0.39	15.7	16.2	0	0	0	3426	10399	230.3	6.9	383.0	200.6	15.9	0	0	0	0.8	2.4		-11.2	77.3	30.4	2.1	999.020	2464	4.185	0.9	
19/8/97	8:00	3330	49075	2.5	0.29	15.2	15.7	0	0	0	3697	10866	263.9	7.9	380.5	164.4	14.2	0	0	0	0.9	2.6		-9.8	71.4	20.9	1.8	999.093	2465	4.185	0.9	
Balance 38D																																
Totals		ΔS		6621	34.7																									Daily average		16.3
Balance Duration:		16 days		2.2																										Daily average		1.0

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 41.2

Bowen Ratio R dimensionless

Qa and Qar terms in red are estimates using method of Koberg 1964

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 1.15

**Balance Period No: 39**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm				
19/8/97	8:00	3.330	49075	14558	2.5	0.29	15.2	15.7	0	0	17857	25321	261.6	7.8	383.2	175.9	14.8	0	0	0	4.2	6.0	5.2	50.5	17.3	1.4	999.014	2464	4.185	0.6					
20/8/97	8:00	3.325	48760	14314	1.8	0.34	15.7	16.2	0	0	10919	15892	262.2	7.9	385.6	211.5	16.4	0	0	0	2.6	3.8	3.6	86.1	27.5	2.4	998.940	2463	4.184	1.5					
21/8/97	8:00	3.320	48436	14071	3.0	0.32	16.2	16.7	0	0	10578	15914	267.9	8.0	388.9	179.3	14.9	0	0	0	2.5	3.8	5.9	59.4	16.6	1.7	998.836	2461	4.184	0.8					
22/8/97	8:00	3.316	48161	13877	2.1	0.28	16.8	17.2	0	0	15810	24045	244.5	7.3	389.6	187.2	15.3	0	0	0	3.8	5.8	0.3	59.3	19.6	1.7	998.813	2461	4.184	0.4					
23/8/97	8:00	3.311	47799	13638	2.1	0.33	17.0	17.4	0	0	8595	14158	230.9	6.9	387.7	199.6	15.9	0	0	0	2.1	3.5	-8.4	68.3	22.5	1.9	998.876	2462	4.184	0.7					
24/8/97	8:00	3.306	47427	13399	2.4	0.33	16.6	17.0	0	0	8458	13861	237.2	7.1	387.3	202.9	16.0	0	0	0	2.1	3.4	-3.6	68.3	11.3	1.9	998.888	2462	4.184	0.9					
25/8/97	8:00	3.301	47075	13163	2.4	0.17	16.5	16.9	0	0	5570	9225	283.1	8.5	388.7	207.3	16.2	0	0	0	1.4	2.3	-0.5	121.7	-1.1	3.5	998.841	2461	4.184	2.6					
26/8/97	8:00	3.295	46662	12882	4.3	-0.01	16.8	17.1	0	0	0	0	326.0	9.8	385.1	131.3	12.3	0.3	0	0	0.0	0.0	-12.2	79.6	-11.1	2.2	998.954	2463	4.185	2.5					
27/8/97	8:00	3.294	46594	12835	2.8	-0.14	16.1	16.2	1336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
28/8/97	8:00	3.314	48019	13781	1.5	0.18	18.1	18.3	21599	44658	17801	30450	325.8	9.8	395.5	178.3	14.9	5.2	10.8	0	4.3	7.3	38.9	42.8	7.7	1.3	998.616	2458	4.183	1.7					
29/8/97	8:00	3.326	48823	14362	1.8	0.42	16.4	16.7	14494	30037	8340	12997	294.6	8.8	386.5	153.5	13.6	3.4	7.1	0	2.0	3.1	-16.9	52.0	22.0	1.4	998.913	2462	4.184	1.6					
30/8/97	8:00	3.321	48503	14119	2.3	0.35	15.9	16.4	0	0	12555	19172	257.0	7.7	383.9	162.9	14.1	0	0	0	3.0	4.6	-7.2	65.4	22.9	1.8	998.991	2463	4.185	0.5					
31/8/97	8:00	3.318	48500	13974	2.4	0.30	17.1	17.6	0	0	2780	4558	240.2	7.2	390.2	214.6	16.5	0	0	0	0.7	1.1	15.5	68.2	20.8	2.0	998.796	2461	4.184	0.7					
Balance 39A																																			
Balance 39B																																			
Balance 39C																																			
Totals																																			
																ΔS	-584	28.9															Daily average	14.6	1.2
																Daily average		2.4															Daily average	42.3	42.3

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 42.3

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 1.19

**Balance Period No: 40**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm
31/8/97	8:00	3.318	48300	3.318	2.4	17.1	17.6	0	0	0	12464	20104	249.0	7.5	392.3	230.0	17.1	0	0	0	3.0	4.9		2.4	91.9	30.4	2.7	998.725	2460	4.183	1.5
1/9/97	8:00	3.312	47873	13685	3.2	0.33	17.5	18.0	0	0	0	0	295.3	8.9	376.9	66.5	7.3	8.3	13.0	0	0.0	0.0	-32.5	38.1	6.5	0.9	999.193	2467	4.186	0.7	
2/9/97	8:00	3.343	49866	13201	1.3	0.17	14.6	14.6	35809	56118	0	0	9922	276.5	8.3	378.5	169.8	3.7	5.0	0	1.7	2.3	14.3	56.4	17.8	1.4	999.148	2466	4.186	1.0	
3/9/97	8:00	3.355	50567	15804	2.0	0.32	14.9	15.2	16138	21919	0	7255	22435	249.7	7.5	386.1	200.6	15.9	0.1	0	3.4	5.2	22.5	56.3	18.9	1.6	998.925	2463	4.184	0.4	
4/9/97	8:00	3.350	50280	15552	2.0	0.34	16.3	16.9	497	122	0	14789																			
<b>Balance 40A</b>																															
5/9/97	8:00	3.345	49885	15301	2.3	0.05	16.7	17.0	0	0	298	10382	301.8	9.1	388.0	164.3	14.2	0	0	0	0.1	2.4		-0.7	65.3	3.2	1.9	998.862	2462	4.184	1.7
6/9/97	8:00	3.463	56474	21608	2.1	0.14	17.3	17.4	120746	240062	0	1897	67863	316.9	9.5	391.3	131.0	12.3	24.7	49.2	0	0.4	13.9	71.0	60.1	8.6	1.8	998.757	2460	4.184	0.7
7/9/97	8:00	3.456	56163	21213	3.0	0.19	16.7	16.9	2426	654	0	641	22279	294.8	8.8	388.2	159.5	13.9	0.5	0.1	0	4.6	-13.3	84.9	16.0	2.4	998.856	2462	4.184	1.5	
8/9/97	8:00	3.526	59481	25261	3.0	0.29	18.0	18.3	80863	134849	0	1072	40199	308.1	9.2	395.1	189.8	15.4	15.7	26.2	0	0.2	7.8	66.1	83.9	2.6	998.630	2459	4.183	1.2	
<b>Balance 40B</b>																															
9/9/97	8:00	3.551	60631	26761	3.3	0.26	18.6	18.9	44992	55089	0	6593	13155	311.9	9.4	398.3	176.2	14.8	8.6	10.5	0	1.3	2.5	26.9	93.1	2.9	998.523	2457	4.183	1.5	
10/9/97	8:00	3.575	62269	28233	2.6	0.40	17.1	17.8	35527	77191	0	46604	87754	264.9	7.9	390.4	163.7	14.1	6.6	14.3	0	8.7	16.3	-12.3	72.7	28.9	2.1	998.788	2461	4.184	1.0
11/9/97	8:00	3.570	61779	27923	2.3	0.30	16.9	17.7	2018	1539	0	17353	32432	265.9	8.0	389.3	192.2	15.5	0.4	0.3	0	3.3	6.1	-4.1	64.5	19.5	1.9	998.821	2461	4.184	1.2
12/9/97	8:00	3.567	61539	27738	2.7	0.28	18.7	19.0	4174	4638	0	12503	25171	276.0	8.3	398.8	242.2	17.5	0.8	0.9	0	4.7	28.7	75.5	21.4	2.4	998.501	2457	4.183	1.7	
<b>Balance 40C</b>																															
<b>Totals</b>																															
AS 13764 29.6																															
Daily average 2.5																															
Balance Duration: 12 days																															
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: 46.3																															
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																															
Bowen Ratio R dimensionless																															
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): 1.27																															

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 46.3

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 1.27



**Balance Period No: 41**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
12/9/97	8:00	3.567	61539	27738	2.7	0.28	18.7	19.0	0	0	0	16676	31093	254.9	7.6	402.2	238.0	17.4	0	0	0	3.2	5.9	11.4	88.8	25.5	2.9	998.382	2455	4.182	1.4		
13/9/97	8:00	3.561	61155	27370	3.1	0.29	19.3	19.7	0	0	0	8622	15636	297.4	8.9	398.6	180.6	15.0	0	0	0	1.6	3.0	-14.0	71.1	22.0	2.3	998.508	2457	4.183	1.8		
14/9/97	8:00	3.557	60947	27126	2.5	0.31	18.6	19.1	0	0	0	10801	19913	280.3	8.4	400.4	172.1	14.6	0	0	0	2.1	3.8	3.9	88.8	21.2	2.9	998.447	2456	4.182	0.6		
15/9/97	8:00	3.552	60684	26822	3.1	0.24	18.9	19.5	0	0	0	10801	20986	296.5	8.9	406.7	244.5	17.6	0	0	0	2.1	4.0	19.4	88.7	8.6	3.0	998.216	2454	4.182	2.7		
16/9/97	8:00	3.547	60416	26519	3.1	0.10	20.1	20.5	0	0	0	10801	20986	296.5	8.9	406.7	244.5	17.6	0	0	0	2.1	4.0	19.4	88.7	8.6	3.0	998.216	2454	4.182	2.7		
Balance 41A																																	
17/9/97	8:00	3.542	60156	26218	2.6	0.27	21.2	21.6	0	0	0	2073	15306	289.7	8.7	413.1	250.1	17.8	0	0	0	0.4	2.9	19.0	73.8	20.0	2.7	997.971	2451	4.181	2.1		
18/9/97	8:00	3.537	59935	25917	3.0	0.29	21.9	22.3	772	1367	0	2174	16571	298.3	8.9	416.7	242.8	17.5	0.15	0.26	0	0.4	3.2	11.1	85.3	24.7	3.2	997.830	2449	4.181	2.2		
19/9/97	8:00	3.533	59766	25678	2.9	0.30	22.4	22.9	380	0	0	1008	7886	305.9	9.2	419.9	227.1	17.0	0.07	0	0	0.2	1.5	9.3	82.6	24.6	3.2	997.698	2448	4.181	2.0		
20/9/97	8:00	3.527	59522	25320	3.0	0.29	22.2	22.7	0	0	0	2562	19921	319.8	9.6	418.6	197.0	15.8	0	0	0	0.5	3.9	-7.8	85.5	24.6	3.2	997.754	2449	4.181	2.1		
Balance 41B																																	
21/9/97	8:00	3.520	59236	24904	2.5	0.25	22.2	22.7	0	0	0	4991	31088	295.1	8.9	418.8	232.3	17.2	0	0	0	1.0	6.1	-6.7	70.8	17.6	2.7	997.747	2448	4.181	2.3		
22/9/97	8:00	3.517	59115	24727	3.2	0.28	22.1	22.6	0	77	0	0	0	284.4	8.5	417.8	229.5	17.0	0	0.02	0	0.0	0.0	-4.0	91.4	25.4	3.4	997.786	2449	4.181	2.0		
23/9/97	8:00	3.510	58809	24314	3.4	0.31	22.4	22.9	0	169	0	3963	24926	283.3	8.5	419.8	270.8	18.4	0	0.03	0	0.8	4.9	0.8	97.3	30.2	3.7	997.704	2448	4.181	2.7		
24/9/97	8:00	3.506	58581	24079	4.0	0.20	22.9	23.4	1846	651	0	654	4207	302.7	9.1	422.4	269.9	18.4	0.36	0.13	0	0.1	0.8	7.5	114.3	22.6	4.5	997.600	2447	4.180	3.3		
Balance 41C																																	
Totals			ΔS	-3659	36.7																												25.2
Daily average																																	2.1

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 35.1

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 0.96

**Balance Period No: 42**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm			
24/9/97	8:00	58581	24079	4.0	0.20	22.9	23.4	0	121	0	9133	24682	276.0	8.3	416.8	262.4	18.2	0	0.02	0	1.8	4.9		-20.4	121.0	39.4	4.5	997.828	2449	4.181	2.9			
25/9/97	8:00	3.499	58174	23671	4.3	0.33	21.9	22.6	0	0	5252	13267	320.8	9.6	409.9	199.0	15.8	0.46	0.16	0	1.0	2.6		-31.6	96.9	29.0	3.4	998.096	2452	4.181	3.0			
26/9/97	8:00	3.495	57969	23438	3.4	0.30	20.7	21.1	2287	796	0	7250	18387	281.5	8.4	410.3	240.5	17.4	0	0.01	0	1.5	3.7		-1.7	79.8	26.2	2.8	998.081	2452	4.181	2.2		
27/9/97	8:00	3.490	57724	23149	2.8	0.33	20.7	21.2	0	36	0	5480	14096	283.1	8.5	411.4	248.8	17.7	0	0	0	1.1	2.8		2.4	94.5	28.7	3.4	998.036	2452	4.181	2.4		
28/9/97	8:00	3.485	57486	22861	3.3	0.30	20.9	21.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		
Balance 42A																																		
29/9/97	8:00	3.479	57207	22517	3.7	0.24	21.7	22.1	0	0	0	18096	34261	294.4	8.8	415.7	251.8	17.8	0	0	0	3.7	6.9		7.7	103.3	25.1	3.8	997.872	2450	4.181	2.6		
30/9/97	8:00	3.475	57025	22289	3.1	0.26	22.9	23.4	0	0	6568	13167	306.7	9.2	422.3	285.0	18.9	0	0	0	1.3	2.7		21.7	88.4	23.2	3.5	997.599	2447	4.180	3.2			
1/10/97	8:00	3.472	56890	22118	4.4	0.22	22.9	23.4	7463	10097	0	20241	40508	330.8	9.9	422.8	255.0	17.9	1.5	2.1	0	4.1	8.2		-3.1	125.0	27.1	4.9	997.583	2447	4.180	3.9		
2/10/97	8:00	3.467	56663	21834	3.1	0.31	20.6	21.2	0	0	0	14209	25823	290.8	8.7	409.9	171.2	14.5	0	0	0	2.9	5.3		-44.0	88.6	27.3	3.1	998.099	2452	4.181	1.8		
Balance 42B																																		
3/10/97	8:00	3.460	56337	21438	3.9	0.28	20.4	21.1	0	0	0	15791	29608	279.9	8.4	408.3	285.9	18.9	0	0	0	3.2	6.1		-6.7	109.4	30.7	3.8	998.156	2453	4.182	3.6		
4/10/97	8:00	3.455	56120	21157	4.0	0.23	21.6	22.2	0	0	0	5145	10110	287.9	8.6	415.1	298.4	19.2	0	0	0	1.1	2.1		14.9	112.2	25.6	4.1	997.892	2450	4.181	3.6		
5/10/97	8:00	3.447	55778	20710	4.8	0.17	22.4	22.8	0	0	0	15880	32172	284.7	8.5	419.8	296.9	19.2	0	0	0	3.3	6.7		6.2	135.6	23.3	5.2	997.710	2448	4.181	3.6		
6/10/97	8:00	3.442	55566	20431	5.6	0.04	21.2	21.8	0	0	0	0	0	306.4	9.2	413.2	287.3	18.9	0	0	0	0.0	0.0		-23.0	159.4	6.8	5.8	997.970	2451	4.181	5.7		
Balance 42C																																		
Totals			ΔS	-3648	46.4																													38.5
Daily average																																		
Balance Duration: 12 days																																		
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: 24.0																																		
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																		
Bowen Ratio R dimensionless																																		
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): 0.66																																		

**Balance Period No: 43**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
6/10/97	8:00	3.442	55566	20431	5.6	0.04	21.2	21.8	0	0	11749	21129	323.5	9.7	415.3	248.2	17.7	0	0	0	2.5	4.4		-1.1	129.9	13.9	4.8	997.885	2450	4.181	4.0		
7/10/97	8:00	3.436	55308	20099	4.6	0.11	21.6	22.0	0	0	26210	50777	351.0	10.5	425.1	283.0	18.8	3.1	5.1	0	5.5	10.6		30.7	114.6	25.3	4.6	997.484	2446	4.180	4.3		
8/10/97	8:00	3.437	55351	20154	4.1	0.22	23.4	23.7	14757	24374	0	0	328.8	9.9	418.2	207.4	16.2	11.2	19.3	0	0.0	0.0		-0.3	132.9	31.9	5.0	997.773	2449	4.181	3.4		
9/10/97	8:00	3.469	56754	21947	4.7	0.24	22.1	22.3	54962	94655	0	0	0	9.3	403.8	249.7	17.8	6.2	11.0	0	7.3	11.7		-37.8	138.2	27.1	4.6	998.326	2455	4.182	5.1		
10/10/97	8:00	3.483	57393	22746	4.9	0.20	19.6	19.8	30937	54525	0	0	58228	309.2	0	0	0	0	0	0	0	0											
Balance 43A																																	
11/10/97	8:00	3.478	57161	22460	4.2	0.17	19.7	20.2	0	0	2632	6624	281.3	8.4	404.5	252.2	17.8	0	0	0	0.5	1.3		4.9	118.3	20.5	4.0	998.297	2454	4.182	2.8		
12/10/97	8:00	3.470	56800	22004	3.9	0.25	21.5	22.0	0	0	13215	36225	297.7	8.9	414.3	301.7	19.3	0	0	0	2.7	7.4		28.4	109.2	27.0	4.0	997.924	2450	4.181	3.4		
13/10/97	8:00	3.465	56571	21721	3.8	0.26	23.2	23.7	0	0	3920	11560	290.8	8.7	424.4	291.3	19.0	0	0	0	0.8	2.4		27.3	106.0	27.6	4.2	997.514	2446	4.180	2.7		
14/10/97	8:00	3.458	56249	21326	3.4	0.27	22.7	23.3	0	0	11255	32698	311.8	9.4	421.5	264.9	18.2	0	0	0	2.3	6.7		-12.0	97.3	25.8	3.8	997.635	2447	4.180	3.7		
Balance 43B																																	
15/10/97	8:00	3.451	55948	20933	4.9	0.25	23.3	23.9	0	0	5365	18895	289.5	8.7	424.9	314.3	19.7	0	0	0	1.1	3.9		5.6	138.4	34.9	5.5	997.495	2446	4.180	3.9		
16/10/97	8:00	3.443	55608	20487	4.2	0.26	22.8	23.5	0	0	9685	33506	276.3	8.3	422.1	305.8	19.4	0	0	0	2.0	7.0		-14.2	117.9	30.8	4.6	997.614	2447	4.180	3.8		
17/10/97	8:00	3.435	55265	20043	5.0	0.24	21.9	22.7	0	0	7548	25206	282.0	8.5	417.1	290.5	19.0	0	0	0	1.6	5.3		-20.9	141.6	33.9	5.3	997.815	2449	4.181	4.0		
18/10/97	8:00	3.425	54793	19493	5.0	0.14	20.8	21.5	0	0	12504	39593	280.1	8.4	410.8	299.0	19.3	0	0	0	2.6	8.4		-27.9	141.8	20.0	5.0	998.063	2452	4.181	4.9		
Balance 43C																																	
Totals			ΔS	-938	52.5																												
Daily average																																	
Balance Duration: 12 days																																	
Daily average sediment term Qse (W m <sup>-2</sup> d <sup>-1</sup> ) required to balance pan and thermal evaporation: 19.5																																	
All Q terms expressed in watts per square meter (W m <sup>-2</sup> )																																	
Bowen Ratio R dimensionless																																	
Qse expressed as equivalent evaporation (mm d <sup>-1</sup> ): 0.55																																	

Daily average

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 19.5

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 0.55

**Balance Period No: 44**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
18/10/97 8:00	3.425	54793	19493	5.0	0.14	20.8	21.5	0	0	0	0	0	6455	275.6	8.3	415.7	334.6	20.2	0	0	0	1.4	5.6	144.6	15.8	5.4	997.872	2450	4.181	4.9			
19/10/97 8:00	3.419	54510	19165	5.1	0.11	21.7	22.1	0	0	0	0	0	15948	310.8	9.3	416.9	331.0	20.1	0	0	0	3.4	-3.2	191.8	3.5	7.2	997.822	2449	4.181	6.5			
20/10/97 8:00	3.410	54055	18677	6.8	0.02	21.9	22.3	0	0	0	0	0	24164	358.8	10.8	420.6	266.8	18.3	0	0	0	5.2	2.5	132.7	-4.1	5.1	997.668	2448	4.181	5.9			
21/10/97 8:00	3.402	53580	18246	4.7	-0.03	22.6	22.8	0	0	0	0	0	24294	339.9	10.2	438.0	312.3	19.6	0	0	0	5.3	47.1	170.4	15.4	7.5	996.926	2441	4.180	4.1			
22/10/97 8:00	3.393	52839	17767	6.0	0.09	25.6	26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Balance 44A																																	
23/10/97 8:00	3.383	52166	17242	4.3	0.11	26.1	26.4	369	1001	0	16397	57469	360.0	10.8	440.8	254.6	17.9	0.08	0.22	0	3.6	12.8	-0.3	120.2	13.4	5.4	996.799	2439	4.179	4.2			
24/10/97 8:00	3.373	51591	16723	5.2	0.23	25.9	26.4	0	0	0	12787	44825	343.0	10.3	439.9	263.1	18.2	0	0	0	2.9	10.1	-8.1	146.8	34.2	6.5	996.843	2440	4.179	3.8			
25/10/97 8:00	3.364	51073	16261	3.3	0.28	22.8	23.3	0	0	0	15005	46399	322.5	9.7	422.2	187.3	15.3	0	0	0	3.4	10.5	-55.2	94.3	26.7	3.7	997.609	2447	4.180	3.0			
26/10/97 8:00	3.357	50679	15905	4.6	0.28	23.4	24.0	0	0	0	6342	20190	309.4	9.3	425.5	339.4	20.4	0	0	0	1.4	4.6	5.3	129.6	35.9	5.2	997.472	2446	4.180	5.0			
Balance 44B																																	
27/10/97 8:00	3.349	50221	15502	4.8	0.26	24.2	24.6	0	356	0	7231	26053	312.6	9.4	429.8	334.6	20.2	0	0.08	0	1.7	6.0	3.9	135.3	35.0	5.6	997.286	2444	4.180	4.9			
28/10/97 8:00	3.343	49866	15201	5.0	0.23	25.0	25.3	4573	4581	0	7669	28367	333.2	10.0	434.6	307.2	19.5	1.1	1.1	0	1.8	6.6	5.1	142.2	32.6	6.1	997.076	2442	4.180	4.7			
29/10/97 8:00	3.331	49138	14607	5.3	0.23	24.1	24.5	0	0	0	14506	51908	303.6	9.1	429.3	311.4	19.6	0	0	0	3.4	12.2	-21.1	150.1	34.5	6.2	997.313	2444	4.180	4.7			
30/10/97 8:00	3.318	48300	13974	6.2	0.26	21.3	21.8	0	0	0	14594	46565	279.8	8.4	413.7	318.6	19.8	0	0	0	3.5	11.2	-46.5	174.2	44.4	6.3	997.958	2451	4.181	5.3			
Balance 44C																																	
Totals		ΔS	-5519	61.4																								Daily average				57.0	
Balance Duration:	12 days																																4.7

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: 12.4

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): 0.36

**Balance Period No: 45**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm				
30/10/97 8:00	3.318	48300	13974	6.2	0.26	21.3	21.8	0	0	0	0	0	22722	283.9	8.5	410.9	347.5	20.6	0	0	0	0	0	0	5.5	-11.9	147.7	25.4	5.2	998.058	2452	4.181	5.8		
31/10/97 8:00	3.308	47575	13494	5.2	0.17	20.8	21.4	0	0	0	0	0	29835	293.7	8.8	417.0	345.6	20.5	0	0	0	0	0	0	7.4	7.3	138.7	30.7	5.2	997.821	2449	4.181	5.0		
1/11/97 8:00	3.297	46798	12975	4.9	0.22	21.9	22.4	0	0	0	0	0	9102	297.9	8.9	426.1	349.3	20.6	0	0	0	0	0	0	2.3	16.7	147.2	24.2	5.9	997.450	2446	4.180	5.1		
2/11/97 8:00	3.290	46315	12650	5.2	0.16	23.5	24.0	0	0	0	0	0	7507	321.5	9.6	433.5	329.3	20.1	0	0	0	0	0	0	1.9	12.9	158.8	9.1	6.7	997.126	2442	4.180	5.6		
Balance 45A																																			
4/11/97 8:00	3.274	45237	11917	5.5	0.08	24.6	25.3	0	0	0	1105	18264	356.1	10.7	432.6	268.3	18.3	0	0	0	0	0	0	0	4.7	-7.9	155.8	12.9	6.6	997.166	2443	4.180	5.2		
5/11/97 8:00	3.265	44659	11513	4.4	0.22	22.6	23.3	0	0	0	1448	22048	347.8	10.4	420.9	182.8	15.1	0	0	0	0	0	0	0	5.7	-31.7	123.8	26.9	4.8	997.662	2448	4.181	3.1		
6/11/97 8:00	3.256	44085	11113	4.4	0.19	22.1	22.9	0	0	0	1441	21579	306.8	9.2	417.9	300.0	19.3	0	0	0	0	0	0	0	5.7	-11.1	123.9	24.0	4.7	997.788	2449	4.181	4.8		
7/11/97 8:00	3.244	43265	10589	6.4	0.16	22.3	23.2	0	0	0	1721	26064	299.5	9.0	419.2	361.5	21.0	0	0	0	0	0	0	0	7.0	-5.0	179.9	28.4	6.8	997.735	2448	4.181	6.2		
Balance 45B																																			
8/11/97 8:00	3.235	42577	10203	5.4	0.18	22.2	23.0	0	0	0	0	0	15623	307.4	9.2	418.4	354.0	20.8	0	0	0	0	0	0	4.2	-7.4	153.4	28.1	5.8	997.763	2449	4.181	6.2		
9/11/97 8:00	3.227	41961	9865	5.8	0.14	24.5	25.3	0	0	0	0	0	10189	324.4	9.7	431.5	353.9	20.8	0	0	0	0	0	0	2.8	20.2	164.7	22.8	6.9	997.214	2443	4.180	5.8		
10/11/97 8:00	3.220	41400	9573	5.0	0.16	25.6	26.6	0	0	0	0	0	9767	341.3	10.2	438.4	326.1	20.0	0	0	0	0	0	0	2.7	9.7	141.0	23.0	6.2	996.912	2441	4.180	5.5		
11/11/97 8:00	3.209	40536	9122	5.9	0.12	24.9	25.9	0	0	0	0	0	23750	340.6	10.2	434.4	324.3	20.0	0	0	0	0	0	0	6.8	-15.2	167.6	20.7	7.1	997.093	2442	4.180	6.3		
Balance 45C																																			
Totals		ΔS	-4852	63.8																															64.5
		Daily average																																	5.4

Balance Duration: 12 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -2.0

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless Bowen Ratio R dimensionless Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.057

**Balance Period No: 46**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
11/11/97 8:00	3.209	40536	9122	5.9	0.12	24.9	25.9	0	0	0	0	22641	354.2	10.6	425.2	288.3	18.9	0	0	0	0	6.6		-26.3	185.5	12.4	7.4	997.490	2446	4.180	6.6		
12/11/97 8:00	3.197	39716	8641	6.6	0.07	23.3	24.3	0	0	0	0	18956	366.8	11.0	403.3	138.0	12.7	0	0	0	0	5.6		-46.9	41.4	6.2	1.4	998.343	2455	4.182	3.6		
13/11/97 8:00	3.190	39251	8365	1.5	0.15	19.5	20.2	0	0	0	0	12497	325.8	9.8	408.4	176.3	14.8	0	0	0	0	3.7		6.2	70.9	13.2	2.5	998.155	2453	4.182	1.7		
14/11/97 8:00	3.184	38856	8130	2.5	0.19	20.4	21.2	0	0	0	0	21863	308.8	9.3	419.5	356.4	20.8	0	0	0	0	6.6		13.4	150.4	25.2	5.7	997.723	2448	4.181	5.7		
15/11/97 8:00	3.173	38128	7707	5.3	0.17	22.3	23.3	0	0	0	0	13531	306.8	9.2	421.8	360.7	21.0	0	0	0	0	4.2		-3.0	194.5	30.1	7.5	997.638	2447	4.180	6.4		
16/11/97 8:00	3.164	37516	7366	6.9	0.15	22.7	23.7	0	0	0	0	5562	15584	9.1	417.6	375.0	21.4	0	0	0	0	1.7		-12.1	153.4	20.1	5.8	997.803	2449	4.181	7.2		
17/11/97 8:00	3.156	36973	7068	5.4	0.13	22.0	23.0	0	0	0	0	3650	10571	9.2	422.1	375.5	21.4	0	0	0	0	1.2		1.2	176.8	35.7	6.9	997.615	2447	4.180	6.4		
18/11/97 8:00	3.148	36420	6775	6.3	0.20	22.8	23.8	0	0	0	0	4866	14845	9.3	429.5	379.4	21.5	0	0	0	0	4.8		4.7	188.3	34.2	7.8	997.309	2444	4.180	6.4		
19/11/97 8:00	3.139	35742	6450	6.7	0.18	24.1	25.1	0	0	0	0	14979	326.4	9.8	434.4	360.4	20.9	0	0	0	0	4.9		0.8	152.9	29.0	6.5	997.093	2442	4.180	6.2		
20/11/97 8:00	3.130	35025	6132	5.4	0.19	24.9	26.0	0	0	0	0	3720	366.7	11.0	423.9	263.0	18.2	0	0	0	0	1.2		-22.4	170.9	21.6	6.7	997.544	2446	4.180	6.0		
21/11/97 8:00	3.123	34463	5888	6.0	0.13	23.1	23.9	0	0	0	267	24671	419.5	12.6	409.7	173.0	14.6	4.7	13.0	0	0.1			-15.8	88.3	12.7	3.1	998.104	2452	4.181	5.4		
22/11/97 8:00	3.131	35108	6167	3.1	0.14	20.6	21.4	14390	39464	0	1978	4061	435.7	13.1	423.5	292.6	19.1	0	0.02	0	0.1			18.5	112.0	25.5	4.4	997.555	2447	4.180	7.0		
23/11/97 8:00	3.126	34703	5992	4.0	0.23	23.1	24.0	0	64	0	290	0	0	0	0	0	0	0	0	0	1.4												
Balance 46C																																	
Totals		ΔS	-3130	59.6																													68.7
Balance Duration:	12 days	Daily average																															5.7

Balance Duration: 12 days

Daily average

5.0

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -25.6

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.75

**Balance Period No: 47**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
23/11/97 8:00	3.126	34703	5992	4.0	0.23	23.1	24.0	0	0	0	0	1909	398.5	12.0	431.1	323.6	19.9	0	0	0	0	0.6		7.4	155.9	37.1	6.5	997.237	2443	4.180	6.9		
24/11/97 8:00	3.120	34218	5785	5.5	0.24	24.4	25.4	0	0	0	0	12120	382.4	11.5	419.8	224.8	16.9	0	0	0	0	4.2		-21.8	70.8	10.0	2.7	997.706	2448	4.181	5.3		
25/11/97 8:00	3.114	33734	5582	2.5	0.14	22.4	23.2	0	0	0	0	1112	443.9	13.3	430.5	239.6	17.4	1.1	1.0	0	0	0.4		13.2	136.9	28.8	5.7	997.255	2444	4.180	6.0		
26/11/97 8:00	3.111	33489	5481	4.9	0.21	24.3	25.1	3311	2883	0	0	16683	434.3	13.0	434.7	302.2	19.3	0.10	0.11	0	0	5.9		0.8	108.6	25.9	4.6	997.084	2442	4.180	7.3		
27/11/97 8:00	3.103	32834	5215	3.9	0.24	25.0	26.0	280	319	0	0	13119	400.4	12.0	437.4	316.5	19.7	0	0	0	0	4.7		-2.1	135.1	24.1	5.9	996.958	2441	4.180	7.1		
Balance 47A																																	
28/11/97 8:00	3.095	32145	4955	4.8	0.18	25.4	26.5	0	0	0	0	14534	378.0	11.3	439.0	370.4	21.2	0	0	0	0	5.4		-5.7	208.5	44.6	9.2	996.894	2440	4.180	7.8		
29/11/97 8:00	3.084	31107	4607	7.4	0.21	25.7	26.8	0	0	0	0	8022	355.5	10.7	436.9	368.5	21.2	0	0	0	0	3.1		-9.3	193.9	42.4	8.4	996.985	2441	4.180	7.3		
30/11/97 8:00	3.075	30223	4332	6.9	0.22	25.3	26.3	0	0	0	0	1823	348.3	10.4	443.1	367.6	21.2	0	0	0	0	0.7		2.2	184.9	30.3	8.4	996.705	2439	4.179	7.0		
1/12/97 8:00	3.068	29517	4122	6.6	0.16	26.4	27.4	0	0	0	0	18151	364.5	10.9	442.1	381.8	21.6	0	0	0	0	7.4		-8.3	164.4	24.6	7.4	996.760	2439	4.179	8.1		
Balance 47B																																	
2/12/97 8:00	3.057	28274	3804	5.8	0.15	26.2	27.1	0	0	0	0	22478	359.6	10.8	437.0	342.0	20.4	0	0	0	0	9.8		-12.7	170.4	17.3	7.4	996.986	2441	4.180	7.3		
3/12/97 8:00	3.044	26665	3447	6.0	0.10	25.3	26.2	0	0	0	0	11168	359.9	10.8	430.6	296.2	19.2	0	0	0	0	5.0		-11.4	147.1	23.2	6.1	997.257	2444	4.180	6.0		
4/12/97 8:00	3.035	25596	3212	5.2	0.16	24.3	25.1	0	0	0	0	24090	361.1	10.8	435.7	337.6	20.3	0	0	0	0	11.7		0.0	132.2	16.6	5.7	997.042	2442	4.180	6.7		
5/12/97 8:00	3.022	23869	2890	4.7	0.13	25.1	26.0	0	0	0	0																						
Balance 47C																																	
Totals		ΔS	-3102	64.2																													82.7
Balance Duration:	12 days	Daily average																															6.9

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -53.0

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -1.54

**Balance Period No: 48**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm		
5/12/97 8:00	3.022	23869	2890	4.7	0.13	25.1	26.0	0	0	0	0	13398	327.7	9.8	427.0	369.8	21.2	0	0	0	0	7.1		-11.6	212.0	25.1	8.5	997.429	2445	4.180	7.4		
6/12/97 8:00	3.009	21783	2593	7.5	0.12	23.6	24.5	0	0	0	0	10201	320.8	9.6	428.2	384.6	21.7	0	0	0	0	6.0		1.9	209.0	23.7	8.5	997.374	2445	4.180	7.3		
7/12/97 8:00	2.997	19634	2345	7.4	0.11	23.8	24.7	0	0	0	0	3777	327.5	9.8	433.1	383.9	21.6	0	0	0	0	2.4		3.3	202.9	26.9	8.6	997.158	2443	4.180	7.3		
8/12/97 8:00	2.988	18405	2174	7.2	0.13	24.7	25.6	0	0	0	0	11692	329.8	9.9	440.4	385.8	21.7	0	0	0	0	8.0		2.5	176.2	19.3	7.8	996.841	2440	4.179	7.2		
9/12/97 8:00	2.976	17015	1962	6.3	0.11	25.9	26.7	0	0	0	0	14587	352.7	10.6	446.7	380.6	21.5	0	0	0	0	10.9		-0.4	234.6	14.8	10.8	996.554	2437	4.179	7.8		
10/12/97 8:00	2.961	15459	1718	8.3	0.06	27.0	27.6	0	0	0	0	10459	384.2	11.5	454.5	352.8	20.7	0	0	0	0	8.4		0.5	196.1	20.4	9.5	996.185	2434	4.179	7.4		
11/12/97 8:00	2.949	14383	1539	7.0	0.10	28.3	28.7	0	0	0	0	13053	356.1	10.7	458.3	359.4	20.9	0	0	0	0	11.2		-6.3	178.4	38.3	8.9	996.007	2433	4.179	6.2		
12/12/97 8:00	2.936	13483	1358	6.4	0.21	28.9	29.2	0	0	0	0	12290	329.6	9.9	442.1	382.6	21.6	0	0	0	0	11.3		-23.2	184.9	24.5	8.3	996.785	2439	4.179	7.5		
13/12/97 8:00	2.922	12589	1176	6.6	0.13	26.1	26.4	0	0	0	0	5029	321.7	9.7	434.3	387.3	21.7	0	0	0	0	4.9		-14.6	249.9	28.2	10.6	997.127	2442	4.180	7.7		
14/12/97 8:00	2.910	11878	1029	8.9	0.11	24.8	25.0	0	0	0	0	7132	336.1	10.1	441.3	377.2	21.4	0	0	0	0	7.5		-3.9	234.9	3.2	10.5	996.819	2440	4.179	7.9		
15/12/97 8:00	2.897	11013	880	8.3	0.01	26.0	26.1	0	0	0	0	4776	371.3	11.1	442.9	367.9	21.2	0	0	0	0	5.4		-6.2	243.6	25.0	11.0	996.733	2439	4.179	8.2		
16/12/97 8:00	2.885	10189	753	8.7	0.10	26.3	26.4	0	0	0	0	10090	347.7	10.4	430.0	320.3	19.8	0	0	0	0	12.9		-15.1	158.9	24.3	6.5	997.308	2444	4.180	6.2		
17/12/97 8:00	2.871	9082	618	5.6	0.15	24.1	24.1	0	301	0	0																						
Balance 48C																																	
Totals		ΔS	-2272	88.1																													88.2
Balance Duration:	12 days	Daily average																															7.3

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -0.2

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.004



**Balance Period No: 49**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm			
17/12/97 8:00	2.871	9082	618	5.6	0.15	24.1	24.1	0	0	0	0	4110	343.8	10.3	440.8	378.9	21.5	0	0	0	0	6.0		4.4	164.4	34.1	7.3	996.846	2440	4.179	6.8			
18/12/97 8:00	2.861	7926	533	5.8	0.21	25.9	25.8	0	0	0	0	4675	347.5	10.4	444.8	372.1	21.3	0	0	0	0	7.6		-3.3	164.3	33.9	7.5	996.678	2438	4.179	6.8			
19/12/97 8:00	2.850	7110	450	5.8	0.21	26.5	26.3	0	0	0	0	6065	330.6	9.9	425.4	313.8	19.7	0	0	0	0	11.4		-16.2	147.3	25.0	5.9	997.509	2446	4.180	5.7			
20/12/97 8:00	2.836	6162	357	5.2	0.17	23.3	22.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Balance 49A																																		
21/12/97 8:00	2.960	15365	1703	6.8	0.15	25.5	25.2	0	0	142979	0	17873	354.9	10.6	438.4	343.4	20.5	0	0	107.7	0	13.5		70.6	190.9	28.1	8.3	996.946	2441	4.180	7.5			
22/12/97 8:00	2.976	17015	1962	5.0	0.13	27.2	26.8	0	0	55653	0	30005	338.7	10.2	448.1	388.4	21.8	0	0	37.9	0	20.4		14.6	140.7	18.8	6.6	996.483	2437	4.179	7.5			
23/12/97 8:00	2.963	15656	1749	9.2	0.04	29.8	29.2	0	0	0	0	7289	374.3	11.2	464.0	377.5	21.4	0	0	0	0	5.4		8.0	257.1	10.5	13.2	995.726	2431	4.179	7.9			
24/12/97 8:00	2.928	12972	1253	7.6	0.08	28.4	27.7	0	0	0	0	42534	376.1	11.3	455.8	376.8	21.4	0	0	0	0	37.9		-28.1	213.7	18.1	10.4	996.146	2434	4.179	8.0			
25/12/97 8:00	2.908	11755	1006	8.4	0.13	26.4	25.7	0	0	0	0	14603	326.8	9.8	443.6	390.4	21.8	0	0	0	0	14.4		-22.9	237.7	32.0	10.8	996.702	2439	4.179	7.5			
Balance 49B																																		
Totals		ΔS	388	53.9																													57.6	
		Daily average		6.7																												Daily average		7.2

Balance Duration: 8 days

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -15.3

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.46

**Balance Period No: 50**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Pan E mm	R	T <sub>0</sub> °C	T <sub>m</sub> °C	Qrn m joules	Qsd m joules	Qtu m joules	Qdc m joules	Qrc m joules	Qa	Qar	Qbs	Qs	Qsr	Qrn	Qsd	Qtu	Qdc	Qrc	Qse	Qx	Qe	Qh	Qw	ρ	L	c	E mm	
25/12/97 8:00	2.908	11755	1006	8.4	0.13	26.4	25.7	0	0	0	0	14862	343.5	10.3	452.6	380.9	21.5	0	0	0	0	16.4		-7.2	187.4	9.7	9.0	996.296	2435	4.179	7.4	
26/12/97 8:00	2.889	10470	794	6.7	0.05	27.9	27.1	0	0	0	0	6950	417.0	12.5	465.7	316.5	19.7	0	0	0	0	8.5		-1.5	222.0	18.4	11.5	995.641	2430	4.179	7.2	
27/12/97 8:00	2.875	9430	655	7.9	0.08	30.1	29.1	0	0	145174	0	15897	377.0	11.3	444.3	256.3	18.0	0	0	95.1	0	10.4		47.1	99.7	4.5	996.674	2438	4.179	5.6		
28/12/97 8:00	2.982	17661	2066	3.5	0.20	26.5	25.6	0	0	0	0	53094	335.3	10.1	444.9	388.4	21.8	0	0	41.4	0	33.2		2.8	146.7	6.7	996.634	2438	4.179	7.5		
29/12/97 8:00	2.989	18532	2192	5.2	0.15	26.7	25.8	0	0	66250	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Balance 50A																																
30/12/97 8:00	2.962	15557	1734	6.9	0.17	28.4	27.4	0	0	0	0	38290	357.8	10.7	454.9	379.8	21.5	0	0	0	0	28.5		0.1	193.2	33.2	9.4	996.157	2434	4.179	6.5	
31/12/97 8:00	2.937	13547	1372	3.9	0.22	29.5	28.5	0	0	0	0	35741	370.2	11.1	461.8	372.0	21.3	0	0	0	0	30.5		-8.1	108.1	23.7	5.5	995.835	2431	4.179	6.3	
1/1/98 8:00	2.912	11997	1053	5.8	0.17	28.0	27.0	0	0	0	0	26984	337.3	10.1	452.9	388.8	21.8	0	0	0	0	26.0		-25.1	164.0	27.3	7.9	996.270	2435	4.179	7.0	
2/1/98 8:00	2.892	10676	826	6.6	0.14	26.3	25.5	0	0	0	0	15957	339.0	10.2	443.1	375.7	21.4	0	0	0	0	17.3		-19.3	184.9	25.4	8.3	996.734	2439	4.179	7.3	
3/1/98 8:00	2.875	9430	655	6.8	0.18	26.8	25.8	0	0	0	0	10889	329.8	9.9	445.9	385.3	21.7	0	0	0	0	13.4		-8.6	190.6	34.8	8.7	996.605	2438	4.179	6.7	
Balance 50B																																
Totals		ΔS	-351	53.3																												61.5
		Daily average		5.9																												6.8

Balance Duration: 9 days

Daily average

Daily average

Daily average sediment term Qse (W m<sup>-2</sup> d<sup>-1</sup>) required to balance pan and thermal evaporation: -30.6

All Q terms expressed in watts per square meter (W m<sup>-2</sup>)

Bowen Ratio R dimensionless

Qse expressed as equivalent evaporation (mm d<sup>-1</sup>): -0.91