

LESLIE DAM FLOOD EVENT REPORT

Emergency Event Recording Sheets

- Description of the event
- Instrument readings, rainfall and levels data
- Description of Observed Damage
- Record of Communication sheet
- General comments & other issues
- Photos during & after event

Note: These sheets must be completed for all Emergency Event Scenarios and be included in the Emergency Event Report

QFCI

Date: 27/05/11 JM

Exhibit Number: 515

Leslie Dam Event Report

Emergency Event Recording Sheets

- Description of the event

EMERGENCY ACTION PLAN - LESLIE DAM

EMERGENCY EVENT RECORD

COMPLETE THIS COVER SHEET AND ATTACH RELEVANT RECORDING SHEETS FROM SECTION 6.

1. NATURE OF THE EVENT (circle the event)

(Spillway discharge) Earthquake Piping Water Quality Terrorist Activity

Commencing: Time 21:08 am/pm; Date 05/01/2011 Finishing: Time 12:00 am/pm; Date 17/01/2011

2. DESCRIPTION OF THE EVENT

Attach relevant sheets from Section 6.

3. STATISTICS

Total Inflow	No inflow gauges U/S	Megalitres
Total discharge	79,104.1	Megalitres
Capacity of Storage prior to Inflow	60	%
Volume prior to inflow	64,260	Megalitres
Maximum inflow	No inflow Gauge U/S	MLD
Maximum discharge	33586.7	MLD

4. EVENT PROGRESS

Attach copies of the Spillway Level versus Time Graph, the Record of Communication, the Log of Events / Actions, and Rainfall during a Flood Event. (Section 6A)

5. GENERAL COMMENTS

Include in this section any observations or comments regarding the Event, such as Equipment malfunctions, Improved Reporting, Safety Issues, or any suggestions which may improve monitoring of the Event

WATER LEVEL INDICATOR (FAULTY)
OPERATION BUILDING IS ON LESLIE DAM DATA
HEADWATER GAUGE IS ON AUSTRALIAN HEIGHT DATA.

6. DAMAGE REPORT

Detail any damage to the Embankment, Spillway, Abutments or Stream bank in the downstream area of the Dam. Attach photos.

Erosion Down stream (please view photos)

Name: PHIL MANN Signed: 

Designation: S/S Date: 17/01/11

SunWater
Section 6: Page 3 of 5
Jan 08, Issue 2-0

Leslie Dam Event Report

Emergency Event Recording Sheets

- Instrument readings, rainfall and levels data

Date	Time	Storage Level	Storage Volume ML	Total Measured Inflow ML/D	Gate Opening in metres							Total Release ML/D	Tailwater gauge board height	Spillway Outlet Channel Performance
					1	2	3	4	5	6	7			
5/01/2011	21:08	472.41	106200										0.387	
5/01/2011	22:30	472.51	107546	1346				0.11						
5/01/2011	22:45	472.52	107676	130			0.11	0.11	0.07				2.89	
5/01/2011	23:00	472.53	107805	129		0.10	0.11	0.11	0.07	0.10				
5/01/2011	23:10	472.54	107934	129	0.07	0.10	0.11	0.11	0.07	0.10	0.07	4437	2.13	
5/01/2011	23:17	472.55	108064	130	0.07	0.10	0.11	0.30	0.07	0.10	0.07	5704		
5/01/2011	23:40	472.56	108194	130	0.07	0.10	0.32	0.30	0.26	0.10	0.07	6204	2.95	
6/01/2011	0:10	472.57	108324	130	0.07	0.29	0.32	0.30	0.26	0.29	0.07	10883	2.899	
6/01/2011	2:09	472.56	108194	0	0.07	0.10	0.32	0.30	0.26	0.10	0.07	10440		
6/01/2011	4:00	472.55	108064	130	0.07	0.10	0.09	0.30	0.09	0.10	0.07	6663	2.8	
6/01/2011	5:30	472.56	108194	130	0.07	0.10	0.30	0.30	0.29	0.10	0.07	10440	2.84	
6/01/2011	7:00	472.57	108324	130	0.07	0.29	0.30	0.30	0.30	0.29	0.07	12934.8	3.078	
6/01/2011	9:40	472.58	108454	130	0.25	0.29	0.29	0.32	0.27	0.29	0.29	16804	3.309	
6/01/2011	11:06	472.59	108623	169	0.25	0.29	0.29	0.54	0.27	0.29	0.29	17619	3.451	
6/01/2011	11:53	472.6	108715	92	0.25	0.29	0.51	0.54	0.48	0.29	0.29	21101	3.696	
6/01/2011	12:45	472.6	108715	0	0.25	0.48	0.51	0.54	0.48	0.49	0.29	24754	3.927	
6/01/2011	13:48	472.591	108597	0	0.25	0.48	0.51	0.66	0.48	0.49	0.29	26614	4.04	
6/01/2011	17:30	472.48	107158	0	0.25	0.48	0.51	0.49	0.48	0.49	0.29	24754	3.927	
6/01/2011	18:00	472.472	107029	0	0.25	0.31	0.51	0.49	0.48	0.31	0.29	21101	3.696	
6/01/2011	18:10	472.462	106900	0	0.25	0.3	0.34	0.48	0.3	0.31	0.28	19025	3.55	
6/01/2011	18:20	472.457	106770	0	0.08	0.3	0.34	0.31	0.3	0.3	0.1	7233	2.404	
6/01/2011	19:00	472.448	106640	0	0.08	0.13	0.34	0.31	0.3	0.13	0.1	10616	2.865	
6/01/2011	20:00	472.443	106640	0	0.08	0.13	0.17	0.31	0.13	0.13	0.1	8287	2.589	
7/01/2011	0:01	472.437	106511	0	0.08	0.13	0.17	0.13	0.13	0.13	0.1	7016	2.412	
7/01/2011	2:30	472.425	106380	0	0	0.13	0.17	0.13	0.13	0.13	0	5850	2.242	
7/01/2011	6:00	472.418	106354	0	0	0	0.13	0.13	0.13	0	0	4119	1.954	
7/01/2011	9:00	472.433	106549	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
7/01/2011	13:00	472.445	106705	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
7/01/2011	18:00	472.459	106867	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
7/01/2011	22:00	472.468	107003	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
8/01/2011	0:01	472.565	106912	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
8/01/2011	4:00	472.455	106835	0	0	0	0.13	0.13	0.13	0	0	4119	1.95	
8/01/2011	8:00	472.441	106653	0	0	0	0.13	0.13	0.13	0	0	3904	1.91	
8/01/2011	9:00	472.439	106640	0	0	0	0.13	0.13	0.13	0	0	3904	1.91	
8/01/2011	14:00	472.416	106380	0	0	0	0	0.13	0.13	0	0	2538	1.649	
8/01/2011	16:00	472.412	106276	0	0	0	0	0.13	0	0	0	1028	1.266	
8/01/2011	18:00	472.413	106289	13	0	0	0	0.13	0	0	0	1028	1.266	
8/01/2011	22:00	472.416	106380	91	0	0	0	0.13	0	0	0	1028	1.266	

8/01/2011	0:01	472.433	106511	131	0	0	0	0.13	0	0	0	1028	1.266
9/01/2011	1:00	472.46	106900	389	0	0	0	0.13	0	0	0	1028	1.266
9/01/2011	2:00	472.487	107158	258	0	0	0	0.13	0	0	0	1028	1.266

Date	Time	Storage Level	Storage Volume ML	Total Measured Inflow ML/D	Gate Opening in metres							Total Release ML/D	Tailwater gauge board height	Spillway (
					1	2	3	4	5	6	7			
9/01/2010	3.00	472.521	107676		0	0	0.11	0.14	0.07	0	0	3010	1.756	
9/01/2011	3.30	472.54	107934		0.00	0.10	0.12	0.15	0.08	0.10	0.00			
9/01/2011	3.35	472.54	107934		0.07	0.10	0.12	0.15	0.08	0.10	0.07	7016	2.412	
9/01/2011	4.00	472.55	108064		0.07	0.10	0.12	0.36	0.08	0.10	0.07	7109	2.424	
9/01/2011	5.00	472.56	108194		0.07	0.10	0.32	0.36	0.36	0.10	0.07	9865	2.776	
9/01/2011	5.30	472.558	108064		0.10	0.10	0.30	0.36	0.31	0.10	0.10	9921	2.78	
9/01/2011	7.30	472.541	107947		0.10	0.10	0.10	0.10	0.10	0.10	0.10	6057	2.271	
9/01/2011	8.00	472.543	107973		0.10	0.10	0.10	0.10	0.10	0.10	0.10	6057	2.271	
9/01/2011	9.00	472.553	108099		0.10	0.10	0.34	0.33	0.29	0.10	0.10	10414	2.837	
9/01/11	18.00	472.403	106118		0.10	0.10	0.20	0.20	0.20	0.10	0.10			
9/01/2011	18.25	472.399	105998		0.10	0.10	0.10	0.10	0.10	0.10	0.10	6057	2.271	
9/01/2011	18.50	472.393	105988		0.00	0.10	0.10	0.10	0.10	0.10	0.00	5469	2.181	
9/01/2011	19.00	472.391	105988		0.00	0.00	0.10	0.10	0.10	0.00	0.00	4119	1.952	
9/01/2011	19.20	472.39	105988		0	0	0	0.1	0.1	0	0	2650	1.652	
9/01/2011	20.00	472.394	105988		0	0	0	0.1	0.1	0	0	2650	1.652	
9/01/2011	21.00	472.4	106200		0	0	0	0.1	0.1	0	0	2658	1.652	
10/01/2011	0.01	472.405	106200		0	0	0	0.1	0.1	0	0	2658	1.652	
10/01/2011	1.00	472.412	106289		0	0	0	0.1	0.1	0	0	2658	1.652	
10/01/2010	9.30	472.441	106627		0	0	0.1	0.1	0.1	0	0	2309	1.58	
10/01/2011	12.00	472.469	107029		0	0.1	0.12	0.13	0.1	0.1	0	4806	2.082	
10/01/2011	13.00	472.487	107288	5058	0	0.1	0.12	0.13	0.1	0.1	0	4800	2.076	
10/01/2011	14.00	472.51	107546	5188	0	0.1	0.12	0.13	0.1	0.1	0	4800	2.076	
10/01/2011	15.00	472.54	107934	6211	0.1	0.1	0.1	0.1	0.1	0.1	0.1	6051	2.207	
10/01/2011	15.30	472.56	108194	10670	0.1	0.1	0.3	0.3	0.3	0.1	0.1	10414	2.837	
10/01/2011	15.35	472.578	108456	12844	0.1	0.3	0.3	0.3	0.3	0.3	0.1	12834	3.078	
10/01/2011	15.45	472.581	108460	16928	0.3	0.3	0.3	0.3	0.3	0.3	0.3	16804	3.309	
10/01/2011	16.05	472.59	108584	17882	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17756	3.464	
10/01/2011	16.45	472.597	108710	17751	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17756	3.464	
10/01/2011	17.15	472.595	108705	17761	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17756	3.464	
10/01/2011	18.00	472.597	108710	17630	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17756	3.464	
10/01/2011	19.00	472.588	108584	17765	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17895	3.472	
10/01/2011	19.47	472.578	108454	15827	0.3	0.3	0.3	0.3	0.3	0.3	0.3	16012	3.329	

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10/01/2011	21.00	472.565	108269	13165	0.1	0.3	0.3	0.3	0.3	0.3	0.1	13296	3.109
10/01/2011	22.00	472.555	108128	10598	0.1	0.1	0.3	0.3	0.3	0.1	0.1	10794	2.877
11/01/2011	0.01	472.546	108012	8575	0.1	0.1	0.1	0.3	0.1	0.1	0.1	8601	2.617
11/01/2011	1.00	472.554	107986	8709	0.1	0.1	0.1	0.3	0.1	0.1	0.1	8601	2.617
11/01/2011	1.20	472.56	108194	10590	0.1	0.1	0.3	0.3	0.3	0.1	0.1	10528	2.854
11/01/2011	2.00	472.564	108256	10964	0.1	0.1	0.3	0.3	0.3	0.1	0.1	10883	2.892
11/01/2011	2.45	472.571	108337	13692	0.1	0.3	0.3	0.3	0.3	0.3	0.1	12949	3.078
11/01/2011	3.00	472.582	108480	14625	0.3	0.3	0.3	0.3	0.3	0.3	0.3	14495	3.211
11/01/2011	3.15	472.592	108610	17327	0.3	0.3	0.3	0.5	0.3	0.3	0.3	17209	3.422

ATT JOHN EATON

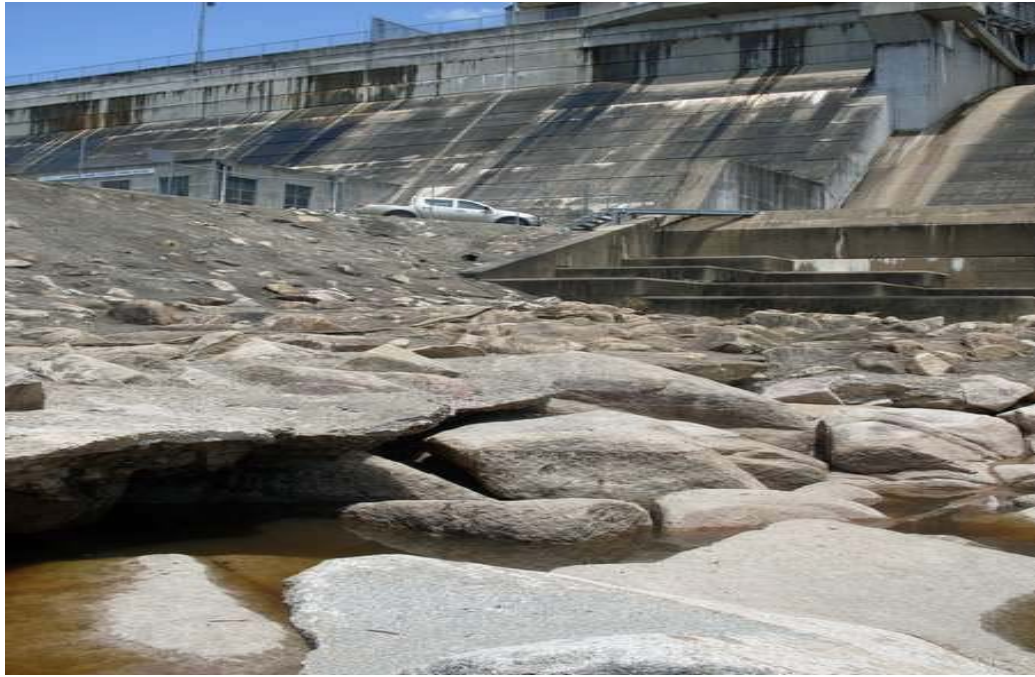
Date	Time	Storage Level	Storage Volume ML	Total Measured Inflow ML/D	Gate Opening in metres							Total Release ML/D	Tailwater gauge board height	Spillway Outlet Channel Performance
					1	2	3	4	5	6	7			
11/01/2011	3.23	472.601	108728	21450	0.3	0.3	0.5	0.5	0.5	0.3	0.3	21254	3.699	
11/01/2011	3.42	472.616	108924	24403	0.30	0.50	0.50	0.50	0.50	0.50	0.30	24285	3.892	
11/01/2011	3.50	472.625	109042	27569	0.50	0.50	0.50	0.50	0.50	0.50	0.50	27411	4.094	
11/01/2011	4.00	472.637	109200	31169	0.50	0.50	0.50	0.80	0.50	0.50	0.50	31065	4.308	
11/01/2011	4.12	472.645	109304	35211	0.50	0.50	0.80	0.80	0.80	0.50	0.50	35144	4.539	
11/01/2011	4.22	472.65	109371		0.50	0.80	0.80	0.80	0.80	0.80	0.50		4.804	
11/01/2011	4.40	472.665	109567		0.80	0.80	0.80	0.80	0.80	0.80	0.80		5.114	
11/01/2011	5.03	472.677	109735		0.80	0.80	0.80	1.20	0.80	0.80	0.80		5.237	
11/01/2011	5.10	472.684	109818		0.80	0.80	1.20	1.20	1.20	0.80	0.80		5.444	
11/01/2011	5.32	472.695	109963		0.80	1.20	1.20	1.20	1.20	1.20	0.80		5.734	
11/01/2011	5.45	472.699	110047		1.20	1.20	1.20	1.20	1.20	1.20	1.20	63914	5.847	
11/01/2011	6.00	472.698	110004		1.20	1.20	1.20	1.20	1.20	1.20	1.20	63914	5.847	
11/01/2011	7.45	472.673	109634		0.80	1.20	1.20	1.20	1.20	1.20	0.80			
11/01/2011	9.00	472.644	109291		1.2	1.2	1.2	1.2	1.2	1.2	1.2			approx t/w GBH 5.90
11/01/2011	9.30	472.608	108820		1.2	1.2	1.2	1.6	1.2	1.2	1.2			
11/01/2011	12.00	472.455	106835		1.2	1.2	1.2	1.2	1.2	1.2	1.2			
11/01/2011	12.30	472.405	106183		0.4	0.8	0.8	0.8	0.8	0.8	0.4			
11/01/2011	13.30	472.387	105949		0.4	0.8	0.8	0.8	0.8	0.8	0.4			
11/01/2011	16.30	472.346	105420		0	0.8	0.8	0.8	0.8	0.8	0			
11/01/2011	17.30	472.333	105249		0	0.5	0.5	0.5	0.5	0.5	0			
11/01/2011	18.00	472.338	105318		0	0.1	0.5	0.5	0.5	0.5	0			
11/01/2011	20.00	472.421	106393		0	0.1	0.5	0.5	0.5	0.5	0			
11/01/2011	21.00	472.457	106861		0	0.1	0.5	0.5	0.5	0.5	0			
11/01/2011	22.00	472.483	107197		0	0.1	0.5	0.5	0.5	0.5	0			
11/01/2011	23.00	472.502	107433		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	0.01	472.512	107572		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	1.00	472.516	107624		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	2.00	472.515	107611		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	3.00	472.509	107611		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	4.00	472.501	107430		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	5.00	472.498	107391		0	0.1	0.5	0.5	0.5	0.5	0			
12/01/2011	6.00	472.475	107094		0	0.1	0.5	0.5	0.5	0.5	0	10973	2.9	
12/01/2011	7.00	472.448	106744		0	0.1	0.5	0.5	0.5	0.5	0	10973	2.9	
12/01/2011	8.00	472.44	106610		0	0.1	0.3	0.3	0.3	0.3	0	8055	2.55	
12/01/2011	9.00	472.427	106471		0	0	0.1	0.1	0.1	0	0	3009	1.73	
12/01/2011	10.00	472.436	106588		0	0	0.1	0.1	0.1	0	0	3009	1.73	
12/01/2011	12.00	472.45	106770		0	0	0.1	0.1	0.1	0	0	3009	1.73	
12/01/2011	14.00	472.46	106900		0	0	0.1	0.1	0.1	0	0	3009	1.73	
12/01/2011														
12/01/2011														
12/01/2011														

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Leslie Dam Event Report

Emergency Event Recording Sheets

- Description of Observed Damage



Undermining of spillway area



Down stream access bridge damaged and blocked with debris



Signage damage down stream



Fencing damage down stream

LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 12/01/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m				472.475			
tail Water Level (m)				2.90			
Daily Rainfall (mm) Morning 9am				10.2			
Evening 3pm							
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
Morning	(Tick if Gates are Closed)						
Evening	(Tick if Gates are Closed)						
VISUAL INSPECTION	First Inspection 14:00				Second Inspection 14:00	Third Inspection (+12 hrs)	
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)							
Spillway Channel					W		
Erosion, damage to concrete structure					✓		
Irrigation Control Structure					W		
Cracks, concrete deterioration					✓		
Embankments					W		
Cracks, subsidence in pavement					✓		
Upstream Face (Use binoculars)					W ✓		
Settlement					✓		
Displacement of riprap material					✓		
Downstream face					W		
Subsidence, slides, erosion							
Sign of seepage					YES (N/A)		
Area Downstream of Dam					W		
Seepage from any location apart from seepage point					✓		
Seepage					W		
Seepage water Clear or Turbid (Tick for clear)					✓		
Condition of river outlet					Discharge	MLD	
Details of significant changes. New occurrences and issues warranting further attention							
<p>TREE WEDGED UNDER LESLIE DAM BRIDGE, REMOVED BRANCHES BRIDGE. OVERHANGING</p> <p>OLD TAILWATER GAUGING STATION TOWER IS ERODED UNDER AT.</p> <p>EROSION ON RHS OF LESLIE DAM BRIDGE IN RECREATION</p> <p>AREA, UNDER BARRICADE ROCKS.</p> <p>SPILLWAY CHANNEL HOLES WHERE TREES HAVE BEEN WASHED</p>							
Inspecting Officer's Initials							
Fax to (tick if faxed)				Asset Engineering Manager / Service Delivery Manager Principal Engineer (Dam Safety)			

LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 13/01/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m					472.439		
tail Water Level (m)					1.91		
Daily Rainfall (mm) Morning 9am					NIL		
Evening 3pm					NIL		
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
Morning	(Tick If Gates are Closed)				3 GATES OPEN.	11.10 AM 13.1.11 1 GATE OPEN	
Evening	(Tick If Gates are Closed)					1200	
VISUAL INSPECTION					First Inspection 07:00	Second Inspection 1700	Thrd Inspection (+12 hrs)
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)							
Spillway Channel	W				W		
Erosion, damage to concrete structure	✓				✓		
Irrigation Control Structure	W				W		
Cracks, concrete deterioration	✓				✓		
Embankments	W				W		
Cracks, subsidence in pavement	✓				✓		
Upstream Face (Use binoculars)	W				W		
Settlement	✓				✓		
Displacement of riprap material	✓				✓		
Downstream face	W				W		
Subsidence, slides, erosion	✓				✓		
Sign of seepage	YES (NIL)				YES (NIL)		
Area Downstream of Dam	W				W		
Seepage from any location apart from seepage point	✓				✓		
Seepage	W				W		
Seepage water Clear or Turbid (Tick for clear)	✓				✓		
Condition of river outlet					Discharge 3904	MLD	
Details of significant changes. New occurrences and issues warranting further attention							
<p>SPILLWAY CHANNEL NO CONCRETE DAMAGE, SOME EROSION WHERE TREES HAVE BEEN WASHED OUT AND ALONG EDGES OF CREEK</p> <p>DOWNSTREAM FACE NO SUBSIDENCE, SLIDES, EROSION.</p> <p>THERE ARE SIGN'S OF SEEPAGE, NO VORTEXING IN STORAGE</p> <p>SPILLWAY CHANNEL WILL BE BETTER CHECKED WHEN RELEASE IS REDUCED.</p>							
Inspecting Officer's Initials							
Fax to (tick if faxed)				<input checked="" type="checkbox"/> Asset Engineering Manager / Service Delivery <input checked="" type="checkbox"/> Manager <input checked="" type="checkbox"/> Principal Engineer (Dam Safety)			

Sunwater

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LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 11/11/2023

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m				472.51	472.57	472.43	
tail Water Level (m)					3.05		
Daily Rainfall (mm) Morning 9am					34.4		
Evening 3pm							
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
	Morning / (Tick if Gates are Closed)		Gates Open				
	Evening 22/30 (Tick if Gates are Closed)						
VISUAL INSPECTION				First Inspection 5.02.20.00	Second Inspection 05.02.20.00	Third Inspection (+12 hrs) 5.02.20.00	
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)							
Spillway Channel	W		W		W D		
Erosion, damage to concrete structure	✓		✓		✓		
Irrigation Control Structure	W		W		W		
Cracks, concrete deterioration	✓		✓		✓		
Embankments	W		W		W		
Cracks, subsidence in pavement	✓		✓		✓		
Upstream Face (Use binoculars)	W		W		W		
Settlement	✓		✓		✓		
Displacement of riprap material	✓		✓		✓		
Downstream face	W		W		W		
Subsidence, slides, erosion	✓		✓		✓		
Sign of seepage	YES (W/H)		YES (NIL)		YES (NIL)		
Area Downstream of Dam	D/W		D/W		D/W		
Seepage from any location apart from seepage point	✓		✓		✓		
Seepage	W		W		W		
Seepage water Clear or Turbid (Tick for clear)	✓		✓		✓		
Condition of river outlet	✓				Discharge 10440 MLD		
Details of significant changes. New occurrences and issues warranting further attention							
<div> <div>Inspecting Officer's initials</div> <div>Asset Engineering Manager / Service Delivery Manager</div> <div>Principal Engineer (Dam Safety)</div> </div>							
Fax to (tick if faxed)				<input checked="" type="checkbox"/>			

LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 2/2/2014

	SUN	MON	TUE	WED	THU	FRI	SAT				
Stored Water Level FSL 472.41m						472.43					
tail Water Level (m)						1.95					
Daily Rainfall (mm) Morning 9am						20.4					
Evening 3pm											
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.83m						
Morning . /	(Tick if Gates are Closed)										
Evening . /	(Tick if Gates are Closed)										
VISUAL INSPECTION				First Inspection 07.00	Second Inspection (16.00)	Third Inspection (14.00)					
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)				07.00	16.00	18.00					
Spillway Channel	Erosion, damage to concrete structure		W/D	N/D	N/D						
Irrigation Control Structure	Cracks, concrete deterioration		✓	✓	✓						
Embankments	Cracks, subsidence in pavement		✓	✓	✓						
Upstream Face	(Use binoculars)		✓	✓	✓						
	Settlement		✓	✓	✓						
	Displacement of riprap material		✓	✓	✓						
Downstream face	Subsidence, slides, erosion		✓	✓	✓						
	Sign of seepage		YES (NIL)	YES (NIL)	YES (NIL)						
Area Downstream of Dam	Seepage from any location apart from seepage point		N/D	N/D	N/D						
Seepage	Seepage water Clear or Turbid (Tick for clear)		✓	✓	✓						
	Condition of river outlet										
Details of significant changes. New occurrences and issues warranting further attention											

Flood Operation

Note: Refer to Page 2 for recording instructions **

Date: 8/1/11

Sunwater
Section 6A: Page 1 of 5
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LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 01/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m	472.58						
tail Water Level (m)	2.78	2.837					
Daily Rainfall (mm) Morning 9am	16						
Evening 3pm							
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
	Morning . / (Tick if Gates are Closed)						
	Evening . / (Tick if Gates are Closed)						
VISUAL INSPECTION				First Inspection 07:30 5.30	Second Inspection 11.45 hrs	Third Inspection (+12 hrs)	
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)							
Spillway Channel				W	W		
Erosion, damage to concrete structure				W	W		
Irrigation Control Structure				W	W		
Cracks, concrete deterioration				W	W		
Embankments				W	W		
Cracks, subsidence in pavement				W	W		
Upstream Face (Use binoculars)				W	W		
Settlement				W	W		
Displacement of riprap material				W	W		
Downstream face				W	W		
Subsidence, slides, erosion				W	W		
Sign of seepage				YES (NIL)	YES (NIL)		
Area Downstream of Dam				W	W		
Seepage from any location apart from seepage point				W	W		
Seepage				W	W		
Seepage water Clear or Turbid (Tick for clear)				W	W		
Condition of river outlet				✓	Discharge 104.4 MLD		
Details of significant changes. New occurrences and issues warranting further attention							
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>							
Inspecting Officer's Initials				<div style="border: 1px solid black; height: 40px; width: 100%;"></div>			
Fax to (tick if faxed)				Asset Engineering Manager / Service Delivery Manager Principal Engineer (Dam Safety)			

LESLIE DAM EAP**Flood Operation**

Visual Inspection and Storage Report

Note: Refer to Page 2 for recording instructions **

Date: 10/1/11
03/07/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m		472.44					
tail Water Level (m)		1.58					
Daily Rainfall (mm) Morning 9am		1.4					
Evening 3pm							
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
Morning	4 (Tick if Gates are Closed)				7 GATES OPEN.		
Evening	2 (Tick if Gates are Closed)						
VISUAL INSPECTION				First Inspection 07:00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)	
(Walk OR Drive at 10 km/hour, Write 'W' for walk and 'D' for Drive)							
Spillway Channel				W	W	2.15 PM	
Erosion, damage to concrete structure				✓	✓		
Irrigation Control Structure				W	W		
Cracks, concrete deterioration				✓	✓		
Embankments				W	W		
Cracks, subsidence in pavement				✓	✓		
Upstream Face				(Use binoculars) W	W		
Settlement				✓	✓		
Downstream face				Displacement of riprap material ✓	✓		
Subsidence, slides, erosion				W	W		
Sign of seepage				YES (NIL)	YES (NIL)		
Area Downstream of Dam				W	W		
Seepage from any location apart from seepage point				✓	✓		
Seepage				W	W		
Seepage water Clear or Turbid (Tick for clear)				✓	✓		
Condition of river outlet							
				Discharge		MLD	

Details of significant changes. New occurrences and issues warranting further attention

Inspecting Officer's initials

Fax to
(tick if faxed)Asset Engineering Manager / Service Delivery
Manager
Principal Engineer (Dam Safety)

LESLIE DAM EAP

Flood Operation

Visual Inspection and Storage Report
Note: Refer to Page 2 for recording instructions **

Date: 11/11/11
12/1/11

	SUN	MON	TUE	WED	THU	FRI	SAT
Stored Water Level FSL 472.41m			472.644	472.475	Gauge Reading		
tail Water Level (m)			FLOODED	NOT MEASURING	2.90		
Daily Rainfall (mm) Morning 9am			86.2	10.2			
Evening 3pm							
NORMAL FLOOD OPERATION EL 471.91 m and rising	STAGE 1 EL 472.41 m		STAGE 2 ✓ EL 472.41-EL 473.24 m		STAGE 3 EL 473.24 -EL 473.63m		
Morning	/		(Tick if Gates are Closed)				
Evening	/		(Tick if Gates are Closed)		12.01.11		
VISUAL INSPECTION				First Inspection 07:00	Second Inspection (+6 hrs)	Third Inspection (+12 hrs)	
(Walk OR Drive at 10 km/hour. Write 'W' for walk and 'D' for Drive)				18:15	4:20		
Spillway Channel	W			W	W	W	
Erosion, damage to concrete structure	✓			✓	✓	✓	
Irrigation Control Structure	W			W	W	W	
Cracks, concrete deterioration	✓			✓	✓	✓	
Embankments	W			W	W	W	
Cracks, subsidence in pavement	✓			✓	✓	✓	
Upstream Face (Use binoculars)	W			✓	✓	✓	
Settlement	✓			✓	✓	✓	
Displacement of riprap material	✓			✓	✓	✓	
Downstream face	W			W	W	W	
Subsidence, slides, erosion	✓			✓	✓	✓	
Sign of seepage	YES (NIL)			YES	YES	YES	
Area Downstream of Dam	W			W	W	W	
Seepage from any location apart from seepage point	✓ NO			NO	NO	NO	
Seepage	W			W	W	W	
Seepage water Clear or Turbid (Tick for clear)	✓			✓	✓	✓	
Condition of river outlet				Discharge	MLD		
Details of significant changes. New occurrences and issues warranting further attention							
A COUPLE OF TREES DOWNSTREAM OF HAIL HAVE BEEN WASHED OUT, ONE IS UPAGAINST LESLIE DAM & BRIDGE. MAIN ROADS WILL NEED TO INSPECT LESLIE BRIDGE, A TREE IS NEDGED UNDER AND ^{some} PAVEMENT ON EDGES OF BRIDGE ARE LIFTING.							
Inspecting Officer's Initials							
Fax to (tick if faxed)				Asst. Engineering Manager / Service Delivery Manager Principal Engineer (Dam Safety)			

Sunwater

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Leslie Dam Event Report

Emergency Event Recording Sheets

- Record of Communication sheet

EMERGENCY ACTION PLAN - LESLIE DAM

LESLIE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
12/1/11	10:30am	Phil Mann	OUT	Greg Wallace / Mitre Catalina Bridge inspected, structurally sound & clear	
12/1/11	4:40pm	Phil Mann	IN	3 gates open 100m, Q = 3009 ML/D	
12/1/11	8:55pm	Chris Mann	IN	Receding, 3 gates open, 70mm FSL, 4000 ML/D	
13/1/11	8:30am	Phil Mann	IN	gates 3, 5, 4 3 gates open 2 @ 100m 1 @ 200mm	
13/1/11	11:10am	Phil Mann	IN	Gate No 4 open 0.2m	
14/1/11	6pm	Phil Mann	IN	Gate 4 open 0.1m	
14/1/11	10:16am	Chris Mann	IN	releasing 600 ML/c Day 1 gate going to CV	
14/1/11	12:15pm	Chris Mann	IN	20mm above FSL gate 4 upped to 200mm	

EMERGENCY ACTION PLAN - LESLIE DAM

LESLIE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
11-1-11	9:45	Rod Ferguson	OUT	Council contacted Leslie info	
11-1-11	9:50	Phil Mann	OUT	Gates 1,2,3, 5, 6, 7 @ 10.2m EL 472.608 4 @ 10.6m, TW underwater	
11/1/11	12.05p	Phil Mann	IN	All gates now at 1.2m open	
11/1/11	13.00	Phil Mann	IN	All gates now at 8m	
11/1/11	16.00	Phil Mann	OUT	Dam Status	
11/1/11	16.30	Phil Mann	IN	Gates 1 & 7 at 3m closed. Rainwater Gates 2, 3, 4, 5, 6 at 8m open	
11/1/11	17.30	Phil Mann	IN	Gates 1 & 7 closed. 2-6 at 8m	
12/1/11	8.00	Phil Mann	IN	Gates 1 & 7 closed. 3, 4, 5, 6 open 472.440 2 & 6 - 1m open TW 2.9m > 10,000ML/D	
12/1/11	9.00	Phil Mann	IN	Gates 1, 2, 6, 7 closed. EL 472.427 Gates 3, 4, 5 open	
12/1/11	9.30	Phil Mann	OUT	Dam Status	
12/1/11	9.30	M.R.D.	OUT	Advice of lowered flow from dam	
12/1/11	9:30	P. Mann	IN	Bridge O/S causeway free, jammed	
12/1/11	9:31	C. Wallace	OUT	M.R.D. notified will inspect soon	
12/1/11	9:32	P. Mann	OUT	left message M.R.D. inspecting	

86mm rain
up till 9cm

~ 5.9m TW
70,000ML/D

EMERGENCY ACTION PLAN

Leslie

DEM

MRD
Main Roads Department

BEARDSHAW DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
10-1-11 5:00p	6:00pm	Peter Collett	IN	Requesting Dam info	
10-1-11	6:05pm	Greg Wallace	out	Flowing over Sandy Crk MRD incident number water just	
10-1-11	6:07pm	Warren Hess	out	Leslie Dam steady Last hour	
10-1-11	7:51pm	Warren Hess	IN	Leslie update Dam Dropping	
10-1-11	7:53pm	Greg Wallace	out	Advice on discharge	
11-1-11	2:40am	Warren Hess	IN	Dam rising fast EL 472.511 ^{Contact} MRD	
11-1-11	2:42am	Greg Wallace	out	MRD contacted about Sandy Crk drain	
11-1-11	3:10am	Warren Hess	IN	^{~ 18000 ML/D} Dam rising 10mm every 10min	
11-1-11	3:51am	Warren Hess	IN	All Gates @ 0.5m and rising	
11-1-11	3:55am	Greg Wallace	out	Greg at crossing all sorted	
11-1-11	5:45am	Warren Hess	IN	EL 472.699 ~ 6m TW level	
11-1-11	8:35am	Greg Morrow	IN	Leslie update	
11-1-11	8:38am	Phil Mann	IN	Flood operation sheets & EL's ^{release} gates	

EMERGENCY ACTION PLAN - LESLIE DAM

LESLIE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
10-1-11	3pm	Phil Mann	IN	All gates open 1 step ^{water building} up rapidly	
10-1-11	3:30pm	Phil Mann	IN	234,586 open ^{0.3m} (Level rising fast)	
10-1-11	3:35	Greg Wallace	OUT	Main Roads contacted to monitor ^{Sandy Creek Bridge}	
10-1-11	3:38	Peter Collett	IN	Contacting ^{Leslie Rising Fast} Greg Morrow & Ron Bellingham	

EMERGENCY ACTION PLAN -

LESLIE / DMR
Leslie

EAP

Lester
Millwood

BEARDMORE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

SDRC
Brian Weeks

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
9-1-11	2:20pm	Phil Mann	IN	Notify Police Disaster groups, Council CEO	
9-1-11	2:35pm	Trudy, Greg, Red	OUT	Greg Morrow (Police Disaster Coord)	
9-1-11	2:40pm	Greg Payne	OUT	MRO Greg Payne add in	
9-1-11	2:50pm	Lester Millwood	IN	MRO AH	
9-1-11	2:50pm	Greg Wallace	OUT	MRO AH	
		DMR Warwick		IN URGENT control phone	
9-1-11	6:10pm	Steve Dunne	IN	state Disaster - coordination crossing	
9-1-11	7:00pm	Michael Holesko	IN	Dam releases is it possible to take reads into consideration when releasing	
9-1-11	7:06pm	Chris Mann	IN	3 gates open @ 100 ≈ 7500 ML/D	
10-1-11	6:56am	Phil Mann	OUT	Leslie update, TW gauge readings	
10-1-11	8:50am	Phil Mann	IN	computer problems sending in sheet ICT dealing with	
10-1-11	9:38am	Phil Mann	IN	Gate 3 just opened one step (600mm) 3, 4, 2, 5 open one step each (4000 ML/D)	
10-1-11	12:15pm	Phil Mann	IN	2, 3, 4, 5, 8 open one step (1000mm) ~ (5000 ML/D) 2, 8, 6 just raised one step	

EMERGENCY ACTION PLAN - LESLIE DAM

LESLIE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
27/12/10	14:00	Rob Keogh	OUT	ADVISE OF RAPID DAM RISKS.	
27/12/10	14:30	Disaster Management.	OUT	ADVISE OF IMMEDIATE DAM SPILL.	
27/12/10	15:00	Phil Mann	OUT	ADVISE ON PREPARED FOR FLOOD RISK	
3/2/11	8:15am	Rob Keogh	OUT	Advice to run gates on manual control	
3/2/11	8:45am	Phil Mann	IN	Email advice for EEC	
4/2/11	9:00	Phil Mann	OUT	Flood operation sheet in word format	
5/2/11	8:00pm	EAP Contacts	OUT	EEC Rang up irrigator, police, district disaster etc	
6/1/11	6:00am	Chris Mann	OUT	Gate heights & Discharge	
6/1/11	6:10am	G Hargreaves	IN	TW gauge, Man operation Fill out gate opening Spreadsheet	
6/1/11	17:30	EAP CONTACTS	OUT	DAM STATUS	
6/1/11	18:30	Chris Mann	IN	Gate 1267 6:15am 345cm 300mm All gates at 100 mm at 7pm	
6/1/11	20:30	DDM contact	OUT	ADVISE DAM DECREASE FLOW	
7/1/11	7:00	P. Mann	IN	DAM GATE STATUS Gate 3, 4, 5 at 100 mm	

EMERGENCY ACTION PLAN - LESLIE DAM

LESLIE DAM - EMERGENCY ACTION PLAN RECORD OF COMMUNICATION

DATE	TIME	CONTACT PERSON / TELEPHONE NO.	CALL IN / OUT	MESSAGE	RECORDED BY (INITIALS)
7/1/11	9:00	FIRE CONTACTS	OUT	DAM STATUS	
9/1/11	1am	CHMS MAN	IN	Heavy Rain + Dam Rising	
"	2am	"	"	3 GATES OPEN 100 mm	
"	3am	"	"	7 GATES OPEN 100 mm	
"	4am	"	"	4 GATES OPEN 100 mm 3 OPEN 300 mm	
"	5am	"	"	TW 1.7m DISC 9338 mm/0	
"	5:30	BRAND H	OUT	ADVISE FLOW + ORGANISE LABOUR	
"	5:35	DISASTER MANAGEMENT	OUT	ADVISE FLOW	
"	6:00	SEVENTH DOWNS COUNCIL	OUT	ADVISE FLOW (NO REPLY TO MESSAGE)	
9/1/11	7:30	PULLE MANN	IN	DECREASED GATE SPACING	
9/1/11	8:30	FIRE CONTACTS	OUT	ADVISE DAM STATUS	

Leslie Dam Event Report

Emergency Event Recording Sheets

- General comments & other issues

EAP REMARKS AFTER THE EVENT

Hi John,

At Leslie Dam we operated this event using the current EAP and found it adequate and relevant. The only fault we had with the EAP, was it is in Leslie Datum and the Leslie Dam Headwater Gauging Station we were using is in Australian Height Datum, because of the faulty water level transducers (system operated in manual mode) The other problems we had were with communication, Citrix gave us so much grief, not being able to email information through to EEC and tail water gauging station failed during this event.

Regards,
Phil Mann
Storage Supervisor
Leslie Dam.

Leslie Dam Event Report

Emergency Event Recording Sheets

- Photos during & after event













