EMERGENCY ACTION PLAN

Andrew Deguara Holdings Pty Ltd
Property Dam

Referable Dam ID: 1755
Current as at: June 2019
Approved until:

Dam owner authorisation:

Signature: .................................................................
Date: 13/08/2019 ................................................................

Approved by the Delegate of the Chief Executive

Signature: .................................................................
Date: .........................................................................

Approved by the delegate of the Chief Executive, Department of Natural Resources, Mines and Energy until 1 September 2023.
### Dam Information

**Dam Name:**
- Andrew Deguara Holdings Pty Ltd Property Dam

**Referable Dam Register No.:**
- 1755

**Owner's Name:**
- [Redacted]

**Phone Number:**
- [Redacted]

**Alternate Contact:**
- [Redacted]

**Phone Number:**
- [Redacted]

**Stream Name:**
- Unnamed gully of Murray Creek

**Reservoir Name:**
- N/A

### Dam Location:

**Latitude:**
- 20°56'00.13"S

**Longitude:**
- 148°51'50.28"E

**Physical Address:**
- 142 Surprise Ck Rd, Mount Ossa

**Lot and Plan Nos.:**
- Lot 425 on Plan CI4418
### Distribution of Emergency Action Plan

<table>
<thead>
<tr>
<th>Party</th>
<th>Postal Address</th>
<th>Distribution Copy Number</th>
</tr>
</thead>
</table>
| Dam Owner                          | c/- Post Office  
Mount Ossa Qld 4741                                | 1                         |
| Alternate contact  
                          | c/- Post Office  
Mount Ossa Qld 4741                                | 2                         |
| Dam Safety Regulator (DSR), DNRME  | Department of Natural Resources, Mines and Energy  
Director, Dam Safety  
P.O. Box 15216  
City East Qld 4002 | 3                         |
| Local Disaster Management Group    | Emergency Management Coordinator  
Mackay Regional Council (RC) LDMG  
PO Box 41  
Mackay Qld 4740                              | 4                         |

1 Note that while the chief executive is required to give a copy of the approved plan to the emergency management chief executive; and publish the approved plan in the register of approved emergency action plans, s.352N(b) of the Act requires the Dam Owner to make it available to an individual—

(i) who has a function under the plan; or
(ii) who, under the plan, is named and required to be personally notified of an emergency condition.
# Notification Listing

## RELEVANT ENTITIES

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contact Details¹</th>
<th>Notification Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam Safety Regulator, DNRME</td>
<td>Brisbane</td>
<td></td>
<td>• Advise of details of activation of EAP to ‘Stand-up’ level of activation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Keep DSR informed of any changes in dam status as emergency situation develops</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Notify of any incidents or failures in accordance with safety conditions applied to dam.</td>
</tr>
<tr>
<td>Local Disaster Management Group</td>
<td>Mackay RC LDMG</td>
<td></td>
<td>• Advise of details of activation of EAP to ‘Stand-up’ level of activation.</td>
</tr>
<tr>
<td>First Contact</td>
<td></td>
<td></td>
<td>• Keep the LDMG informed of any changes in dam status as emergency situation develops</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Notify of any incidents or failures in accordance with safety conditions applied to dam.</td>
</tr>
<tr>
<td>Local Disaster Management Group</td>
<td>Mackay RC LDMG</td>
<td></td>
<td>• Advise of details of activation of EAP to ‘Stand-up’ level of activation.</td>
</tr>
<tr>
<td>Secondary Contact</td>
<td></td>
<td></td>
<td>• Keep the LDMG informed of any changes in dam status as emergency situation develops</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Notify of any incidents or failures in accordance with safety conditions applied to dam.</td>
</tr>
<tr>
<td>Regional Council</td>
<td>Mackay Regional Council</td>
<td>1300 622 529</td>
<td>• The LDMG and the Regional council are the same entity.</td>
</tr>
</tbody>
</table>

¹ Important contacts may require multiple lines of contact to ensure some redundancy is provided in order to maximise the reliability of contact being made.

² Notification requirements will need to be determined on a case by case basis in association with the Local Disaster Management Group.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contact Details</th>
<th>Notification Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Police Station</td>
<td>Calen Police Station, QPS, Main St, Calen Qld 4798</td>
<td>000, 131444</td>
<td>- The local police only needs to be contacted during an event where an evacuation would be advised.</td>
</tr>
</tbody>
</table>
- Website used during a rainfall event to predict the impact of flows from the catchment into the dam |
| Consulting Engineer     | Mackay                          | Aurecon (Mackay), 07 4977 5238 | - Consulting Engineer contacted for advice when there is structural deficiency or incident which could affect the integrity of the dam. |

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3 Important contacts may require multiple lines of contact to ensure some redundancy is provided in order to maximise the reliability of contact being made.

4 Notification requirements will need to be determined on a case by case basis in association with the Local Disaster Management Group.
Dam Owner Responsibilities

- Developing and maintaining an Emergency Action Plan (EAP) and in all emergencies responding in accordance with the approved EAP.

- Reviewing and seek approval for updated Emergency Action Plans as required to ensure it is always up to date and including current contact details for relevant parties.

- Distributing of current Emergency Action Plan to all relevant parties as listed in the distribution list

- Regular on-site monitoring and visual inspection of the conditions at the dam. The dam owner is responsible for conducting a safety evaluation of the dam and to identify any deficiency in the dam’s safety. Where deficiencies exist, the dam owner is required to take appropriate steps to minimise the potential risk of dam failure from these deficiencies.

- Providing timely and accurate notifications to all relevant parties mentioned in the notification list in the event of a dam emergency. The Dam Owner shall be responsible for continuously reporting the status of the dam and the event in accordance with the Emergency Action Plan.

- Making appropriate dam safety related decisions based on advice from a Consulting Engineer where appropriate. The Dam Owner is also responsible for authorising immediate expenditure so that urgent repair work will not be delayed.

- Report incidents and failures at the dam to the Dam Safety Regulator in accordance with the safety conditions including activation and standing down the EAP.

- Maintain an event and communication log (including visual inspection of the dam and any notifications that have been made) during the emergency event.

- Prepare an Emergency Event Report and submit to the Dam Safety Regulator within 30 business days after the end of the emergency event.

- The dam owner has nominated as the standby officer, who will undertake all the roles and responsibilities of this EAP in the absence of
Emergency Events and/or Incidents

Emergency Events
*Emergency event is when an emergency condition (dam failure hazard or downstream release hazard) has happened.*

- High Rainfall/Floods – Storms – Other

Emergency Incidents
*Emergency incident is an event which could deteriorate to a very serious situation or endanger the dam*

- Overtopping, Wave Damage, Cracking, Slips, Structural Failure
- Slides, Slumping, Increased or New Seepage, Piping, Sandboils
- Other abnormal signs or behaviour

Emergency Management

- Be alert to potential developments and maintain close vigilance during extreme events or perceived abnormal behaviour of the dam
- Maintain safety requirements at all times during response actions
- Take actions as outlined in the event notification and action Tables
# Sunny Day Piping Failure Notifications & Actions

<table>
<thead>
<tr>
<th>Emergency Condition Level</th>
<th>Progressive internal erosion of the embankment or foundation to form an open conduit or pipe</th>
<th>Potential notifications/actions (as pre-determined with the relevant disaster group)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alert</td>
<td>New or increased seepage areas identified in dam embankment</td>
<td>Monitor the seepage and determine whether the seepage rate is increasing. Notify:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Affected house</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mackay RC LDMG and Dam Safety Regulator.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact a suitably qualified dam engineer for advice and as necessary employ a contractor to perform remedial works.</td>
</tr>
<tr>
<td>Lean Forward</td>
<td>Pipe beginning to form with dirty water and fines flowing from seepage</td>
<td>Monitor the seepage rate and condition of the dam.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Update:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Affected house</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mackay RC LDMG and Dam Safety Regulator and provide details of the piping development.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updates expected every 4 hours or when deemed appropriate.</td>
</tr>
<tr>
<td>Stand Up</td>
<td>Piping failure developing and a dam failure is likely</td>
<td>Monitor the seepage rate and condition of the dam if safe to do so.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Evacuate affected house to high ground.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Notify Mackay RC LDMG and the Dam Safety Regulator that the dam is likely to fail. Updates expected every 2 hours or when deemed appropriate.</td>
</tr>
<tr>
<td>Stand Down</td>
<td>Failure occurs and the reservoir drains or it is determined seepage is manageable and is not going to develop into a failure condition.</td>
<td>Issue a final notification advising the end of the emergency event to all relevant entities. Prepare Emergency Event Report and submit to the Dam Safety Regulator within 30 business days after the end of the emergency event.</td>
</tr>
</tbody>
</table>
# Flood/Flood Failure Notifications & Actions

<table>
<thead>
<tr>
<th>Emergency Condition Level</th>
<th>Developing flood in the dam catchment</th>
<th>Potential notifications (as pre-determined with the relevant disaster group)</th>
</tr>
</thead>
</table>
| Alert                     | Significant rainfall in the catchment with lake levels rising towards FSL and spillway discharge expected. | Monitor storage level and condition of the dam. If possible also monitor rainfall activity on the BOM radar. Notify:  
1. Affected house  
| Lean Forward              | Spillway flows increasing but as yet are unlikely to impact on downstream PAR and infrastructure. | Monitor storage level and condition of the dam at regular intervals. Update:  
1. Affected house  
2. Mackay RC LDMG and the Dam Safety Regulator alerting them of the flooding situation. Inform them of any downstream infrastructure or PAR that may be impacted by a dam failure. Updates expected every 4 hours or when deemed appropriate. |
| Stand Up                  | Spillway discharge is increasing with flows likely to impact on downstream PAR and infrastructure. If flood activity continues a dam failure may occur due to overtopping. | Monitor storage level and condition of the dam at regular intervals if safe to do so.  
1. Evacuate affected house to high ground  
2. Update Mackay RC LDMG and the Dam Safety Regulator. Inform the relevant entities if the dam has failed. Updates expected every 2 hours or when deemed appropriate. |
| Stand Down                | Flood levels receding with lake levels also stabilising back to FSL. Further releases, that may impact downstream PAR, are unlikely. | Issue a final notification advising the end of the emergency event to all relevant entities. Prepare Emergency event report and submit to the Dam Safety Regulator |
within 30 business days after the end of the emergency event.
Locality map

Andrew Deguara Holdings Pty Ltd Property Dam is approximately forty (40) km NW from Mackay
The one PAR dwelling is approximately 100 m downstream from the dam embankment.

PMF Dam failure inundation map
PMF Dam failure inundation map
Photo 1 - storage

Photo 2 - Wall
Photo 3 - Bywash